P. G. Walker

UNIVERSITY OF WESTERN ONTARIO

LONDON — CANADA

FACULTY of ARTS

UNIVERSITY COLLEGE
ASSUMPTION COLLEGE
URSULINE COLLEGE
WATERLOO COLLEGE
HURON COLLEGE
ALMA COLLEGE

Announcement 1931-1932

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1931

January

S	M	T	W	T	F	S
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March

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May

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June

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August

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September

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25	26	27	28	29	30	31
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CALENDAR OF FACULTY OF ARTS

1931

September 1, Tuesday.....Last day for receiving applications for removal of conditions.

September 7, Monday.....Examinations for removal of conditions begin.

September 19, Saturday.....Registration day for second, third and fourth year students from London.
9-1 o'clock

September 21, Monday.....Registration day for all Freshmen.

September 22, Tuesday.....Registration day for second, third and fourth year students from centres other than London.

September 23, Wednesday.....Lectures begin. Late registration penalty of two dollars.

September 30, Wednesday.....Last day of registration except on penalty of three dollars.
Last day of registration for M.A. candidates.

October 7, Wednesday.....Last day of registration for all except Special Students in the Faculty of Arts.

October 9, Friday, 1.00 p.m......Annual Field Day, half-holiday.

October 30, Friday.....Prize Day Exercises: Autumn Convocation.

November 9, Monday.....Thanksgiving Day; holiday.

December 19, Saturday 1.00 p.m. Christmas vacation begins.

1932

January 4, Monday.....Lectures resume.
Last day for submitting outlines for M.A. theses.

January 18, Monday.....Midyear Examinations begin.

January 30, Saturday.....First term ends.

February 3, Wednesday..... Second term begins: second term fees due.

February 5, Friday.....Last day for payment of second term fees, unless on penalty of one dollar.

March 24, Thursday, 6.00 p.m..Easter vacation begins.

March 29, Tuesday.....Lectures resume.

April 30, Saturday.....M.A. and LL.B. theses due in Registrar's Office.
Lectures for second term close.

May 9, Monday.....Second term examinations begin.

May 27, Friday.....Annual Convocation.

OFFICERS OF LEGISLATION

The Board of Governors

THE CHANCELLOR, *ex officio*
THE PRESIDENT, *ex officio*
HIS WORSHIP THE MAYOR OF LONDON, *ex officio*
THE WARDEN, County of Middlesex, *ex officio*

	Appointed by
MR. HERBERT J. CHILDS,	*London City Council* (1934)
MR. ARTHUR R. FORD,	*Board of Governors* (1931)
MR. FRANK FORRISTAL,	*Lieutenant Governor in Council*
MAJOR GORDON INGRAM,	*London City Council* (1934)
MR. A. T. LITTLE,	*Board of Governors* (1932)
MR. J. P. MOORE, K.C.,	*Lieutenant Governor in Council*
LIEUT.-COL. T. J. MURPHY, K.C.,	*Board of Governors* (1934)
MR. JOHN PRINGLE,	*London City Council* (1932)
MR. A. E. SILVERWOOD,	*London City Council* (1932)
C. R. SOMERVILLE, LL.D.,	*Lieutenant Governor in Council*
MR. H. W. STRUDLEY,	*Lieutenant Governor in Council*
MR. A. W. WHITE,	*Board of Governors* (1932)

Officers of the Board

MR. A. T. LITTLE,	Chairman
COL. W. J. BROWN,	Secretary

The Senate
(1930–1932)

The Chancellor, the Vice-Chancellor, the President, the Registrar, the Director of the Summer School, the Director of the Extension Department and the Librarian, *ex officio.*

	Representative of
DEAN K. P. R. NEVILLE,	*Faculty of University College*
PROFESSOR J. W. RUSSELL,	*Faculty of University College*
DEAN A. B. MACALLUM,	*Faculty of Medical School*
DR. F. J. H. CAMPBELL,	*Faculty of Medical School*
DEAN A. J. SLACK,	*Faculty of Public Health*
DR. T. J. MCNALLY,	*Faculty of Public Health*
MOST REV. DAVID WILLIAMS, D.D., LL.D.,	*Council of Huron College*
REV. C. C. WALLER, D.D.,	*Council of Huron College*
DEAN W. C. FROATS,	*Faculty of Waterloo College*
REV. C. H. LITTLE, D.D.,	*Faculty of Waterloo College*
PRINCIPAL P. S. DOBSON, D.D.,	*Faculty of Alma College*

PRINCIPAL V. L. KENNEDY,	*Faculty of Assumption College*
REV. T. A. MACDONALD,	*Faculty of Assumption College*
REV. F. J. BRENNAN,	*Faculty of Ursuline College*
REV. J. B. FFOULKES,	*Faculty of Ursuline College*
MR. F. G. WAIDE,	*Graduates of University College*
DR. J. A. MACGREGOR,	*Graduates of Medical School*
REV. P. S. IRWIN,	*Graduates of Huron College*
REV. V. J. GUINAN,	*Graduates of Assumption College*
MISS ELEANOR TRIZISKY,	*Graduates of Ursuline College*
MR. J. G. HAGEY,	*Graduates of Waterloo College*
DR. R. J. GORDON,	*Graduates in Public Health*
LT.-COL. T. J. MURPHY, K.C.,	*Board of Governors*
MR. A. W. WHITE,	*Board of Governors*
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DR. H. T. REASON,	*City Council of London*
DR. W. J. STEVENSON,	*City Council of London*
MR. C. H. SMITH,	*City Council of St. Thomas*
MR. N. S. GURD,	*City Council of Sarnia*
DR. L. M. STUART,	*City Council of Guelph*
REV. CANON E. C. JEAKINS,	*City Council of Brantford*
MR. W. N. SEXSMITH,	*City Council of Chatham*
REV. CANON P. N. HARDING,	*City Council of Windsor*
MR. C. MACFIE,	*County Council of Middlesex*
MR. J. A. TAYLOR,	*County Council of Elgin*
MR. G. W. HOLMAN,	*County Council of Huron*
MR. G. A. PEARSON,	*County Council of Kent*
MR. W. G. CONNOLLY,	*County Council of Lambton*
MR. T. E. LANGFORD,	*County Council of Norfolk*
DR. P. L. TYE,	*County Council of Perth*
MR. W. L. BOWDEN,	*County Council of Essex*
MR. F. C. ASBURY,	*Principals Secondary Schools*
MR. E. P. HODGINS,	*Principals Secondary Schools*
MR. W. D. LOWE,	*Principals Secondary Schools*
MR. E. A. MILLER,	*Principals Secondary Schools*

Officers of the Senate

Chairman,	The President
Secretary,	The Registrar

Executive Committee—The Chancellor, the Vice-Chancellor, the President, the Secretary, the Head (or his Deputy) of University College, Medical School, Faculty of Public Health, Ursuline College, Assumption College, Huron College, Waterloo College.

OFFICERS OF ADMINISTRATION

(Date of first appointment is given. Unless otherwise stated, the degrees are from the University of Western Ontario).

Visitor

HIS HONOUR, THE LIEUTENANT GOVERNOR OF ONTARIO.
Toronto, Ontario.
LL.D., 1927. 1927

Chancellor

COL., THE HONOURABLE HENRY COCKSHUTT, LL.D.
Brantford, Ontario.
LL.D., 1926. 1929

President

WILLIAM SHERWOOD FOX, PH.D., D.LITT., LL.D., F.R.S.C.
270 Regent St.
B.A., McMaster, 1900; M.A., *ibid.*, 1906; Ph.D., Johns Hopkins, 1911; F.R.S.C., 1922; D.Litt., McMaster, 1923; LL.D., Queen's, 1929; Professor of Classics, 1917; Dean, University College of Arts, 1919; President, 1927. 1917

Dean of Women

RUBY ELIZABETH CAMPBELL MASON, M.A.
536 Ridout St.
B.A., Toronto, 1895; M.A., *ibid.*, 1899. 1926

Bursar

WILLIAM WAUGH, M.D., LL.D.
537 Talbot St.
M.D., McGill, 1871; LL.D., 1919. 1917

Registrar

KENNETH PERCIVAL RUTHERFORD NEVILLE, M.A., PH.D., F.A.G.S.
190 Bridport St.
B.A., Queen's, 1896; M.A., *ibid.*, 1897; B.A., Harvard, 1898; M.A., *ibid.*, 1899; Ph.D., Cornell, 1901; F.A.G.S., 1921; Professor of Classics, 1908; Registrar of the University, 1917; Dean, University College of Arts, 1927. 1908

Associate Registrar

ELIZABETH ISABEL TANTON, B.A.
551 Waterloo St.
B.A., Toronto, 1918. 1923

Executive Secretary

COL. WALTER JAMES BROWN, B.S.A., LL.M., F.C.I.S.
1006 Wellington St.
B.S.A., Toronto, 1894; LL.M., Chicago Law School, 1898; F.C.I.S., 1926. 1920

Librarian

FRED LANDON, M.A., F.R.S.C.
846 Hellmuth Ave.
B.A., 1906; M.A., 1919; F.R.S.C., 1929. 1917

Director of Extension Department

STAR FLOYD MAINE, M.A., B.D.
336 St. James St.
B.A., 1917; B.D., Victoria, 1919; M.A., Chicago, 1922. 1926

Administrative Council

PRESIDENT FOX, Chairman; DEANS MASON, MACALLUM, NEVILLE, SLACK; PROFESSOR A. G. DORLAND, Secretary.

Other Officials

DOROTHY ALLEN, *Secretary to Science Staff*
277 Victoria St.
B.A., 1930 1930

HELEN M. ALLISON, *Secretary to the Registrar*
11 Regina St.
B.A., 1924. 1924

GWYNEDD AUDEN, *Assistant in Library*
236 St. George St.
1922

MAY CALDWELL, *Secretary to the Executive Secretary*
236 Tecumseh Ave.
1923

CATHERINE CAMPBELL, *Assistant in Library*
424 St. George St.
B.A., 1923. 1923

EDITH CROCKFORD, *Secretary to the Director of Physical Education*
24 Rathgar St.
1922

WILLIAM JOHN CURNOE, *Asst. Supt. of Buildings*
University Campus
1924

WINIFRED DAWSON, *Bookkeeper*
Pipe Line Road
1924

JOHN ATKIN DOBIE, *Supt. of Buildings*
University Campus
1923

JOHN MACKENZIE DOBSON, *Alumni Director*
554 St. James St.
B.A., 1926; L.Th. (Huron), 1926. 1929

KATE M. GILLESPIE, *Assistant Librarian*
164 Albert St.
B.A., McGill, 1921. 1922

OLIVE M. HODGINS, *Secretary to the Director of Summer School*
1199 Richmond St.
1924

ANNIE LAURIE, *Assistant in Supply Store*
29 Becher Street
1929

MARY LINDSAY, *Switchboard Operator*
208 Bernard Ave.
1925

MURIEL ROBERTA LINDSAY, *Secretary to the President*
B.A., 1928. 108 Forward Ave.
1928

ANNE MACGREGOR, *Assistant in Registrar's Department*
1253 Richmond St.
1928

WILLIAM MARSDEN, *Supt. of Grounds*
564 Grosvenor St.
1925

WM. H. MACLEOD, *Chief Clerk in Executive Secretary's Dept.*
314 Queen's Ave.
1926

HELEN LANE MYRICK, *Assistant in Library*
B.A., 1928. 561 Grosvenor St.
1928

M. ELSIE PICKLES, *Manager of the Supply Store*
336 Ridout St. South
1921

F. W. PYE, *Instrument Maker*
R. R. 3, London
1924

ETHEL K. WALKER, *Bookkeeper*
776 Queen's Ave.
1924

RUTH CHRISTINE WATSON, *Assistant in Library*
B.A., 1928. 238 Piccadilly St.
1928

BEATRICE W. WELLING, *Assistant in Library*
1004 Waterloo St.
B.A., New Brunswick, 1909; M.A., Radcliffe, 1912; B.Sc., Simmons, 1916. 1925

RUTH WIGMORE, *Secretary to Supt. of Buildings*
1008 Wellington St.
1930

OFFICERS OF INSTRUCTION

Faculty of Arts

Session 1930-1931

(The year of first appointment to University Staff is given. A, in brackets after a name, indicates the staff of Assumption College; C, the staff of University College; U, the staff of Ursuline College; W, the staff of Waterloo College; H, the staff of Huron College. Unless otherwise indicated the degrees have been granted by the University of Western Ontario).

REV. EDWARD AKSIM (W), *Professor of Hebrew*
S.T.M., Susquehanna, 1926. 1928

REV. FRANK ANDERSON (H), *Professor of Biblical Greek*
199 Regent St.
B.A., Oxon., 1894; M.A., *ibid.*, 1899; B.D., 1922; D.D., Oxon., 1924. 1920

HENRY WILLIAM AUDEN (C), *Professor of Classics*
236 St. George St.
B.A., Cantab., 1889; M.A., *ibid.*, 1893. 1919

REV. PETER JEAN BART (A), *Professor of French*
Lecturer in Philosophy
B.A., Toronto, 1922; M.A., *ibid.*, 1923. 1925

MELVIN EUGENE BASSETT (C), *Professor of Romance Languages*
42 Marley Place
B.A., Michigan, 1903; M.A., Princeton, 1922; Diplôme d'Etudes Universitaires, Bordeaux, 1923. 1927

REV. JAMES VINCENT BURKE (A), *Professor of English*
B.A., Toronto, 1924. 1926

MOTHER M. CARMEL (U), *Professor of English*
Brescia Hall
M.A., Columbia, 1922. 1922

REV. FREDERICK B. CLAUSEN (W),
Professor of Religious Knowledge
1930

JOHN HOWARD CROCKER (C), *Director of Physical Education*
422 Grosvenor St.
M.P.E., Springfield, 1916. 1930

*REV. RICHARD DAVIDSON (C), *Professor of Old Testament Literature and Exegesis*
Emmanuel College, Toronto
B.A., Toronto, 1899; M.A. *ibid.*, 1900; Ph.D., *ibid*, 1902; D.D., Presbyterian College, Montreal, 1919. 1930

RAYMOND COMPTON DEARLE (C), *Professor of Physics*
1024 Waterloo St.
B.A., Toronto, 1914; M.A., *ibid.*, 1915; Ph.D., *ibid.*, 1919. 1919

* Visiting professor, 1st term, 1930-31.

JOHN DETWEILER DETWILER (C), *Professor of Applied Biology*
844 Hellmuth Ave.
B.A., Queen's, 1912; M.A., *ibid.*, 1913; Ph.D., Cornell, 1921; F.A.A.A.S., 1926. 1921

REV. PERRY SILAS DOBSON (Alma), *Professor of Classics*
M.A., Oxon., 1904; D.D., Wesleyan, 1922; Principal, Alma College. 1925

ARTHUR GARRATT DORLAND (C), *Professor of History*
914 Colborne St.
B.A., Queen's, 1910; M.A., Yale, 1911; Ph.D., Toronto, 1927. 1920

*REV. JOHN DOW (C), *Professor of New Testament Literature and Exegesis*
Emmanuel College, Toronto
M.A., St. Andrew's (Scotland), 1909; D.D., *ibid.*, 1927. 1930

REV. BENJAMIN NICHOLAS FORNER (A), *Professor of History*
Lecturer in Economic and Political Science
B.A., Toronto, 1924. 1926

WILLIS C. FROATS (W), *Professor of History*
Professor of Classics
M.A., Queen's, 1904; B.Paed., Toronto, 1915; Dean, Waterloo College. 1928

REV. VINCENT JOSEPH GUINAN (A),
Professor of Economic and Political Science
Lecturer in Mathematics
B.A., 1920; M.A., Ottawa, 1929. 1924

JOHN ABERDEEN GUNTON (C), *Professor of Chemistry*
301 Huron St.
B.A., McMaster, 1916; M.A., *ibid.*, 1917; Ph.D., University of Illinois, 1921; F.C.I.C., 1924. 1923

NELSON COLLINS HART (C), *Professor of Botany*
959 Maitland St.
B.A., Toronto, 1915; M.A., *ibid.*, 1916; F.A.G.S., 1931. 1919

HANNA MARIE HAUG (W), *Professor of History*
Ph.B., Wisconsin, 1922; M.A., *ibid.*, 1928; Dean of Women, Waterloo College. 1929

PHILIP HOWARD HENSEL (C), *Professor of Business Administration*
1004 Waterloo St.
B.S., Northeastern, 1921; B.B.A., Boston, 1926; M.B.A., Harvard, 1928. 1928

ROY JAMES EDWARD HIRTLE (W), *Professor of Science*
Associate Professor of Mathematics
B.Sc., Dalhousie, 1921; M.Sc., *ibid.*, 1923. 1925

MOTHER M. IMMACULATE (U), *Professor of Mathematics*
Brescia Hall
B.A., Toronto, 1903; Dean, Ursuline College. 1926

NATHANIEL CHAMNEY JAMES (C), *Emeritus Professor of German*
159 St. James St.
B.A., Toronto, 1883; Ph.D., Halle, 1893; LL.D., 1924. 1896

* Visiting professor, 2nd term, 1930-31.

VERY REV. VINCENT L. KENNEDY (A), *Professor of Classics*
B.A., Toronto, 1923; M.A., *ibid.*, 1925; Principal, Assumption College. 1925

HAROLD REYNOLDS KINGSTON (C), *Professor of Mathematics*
287 Oxford St.
M.A., Queen's, 1908; Ph.D., Chicago, 1914; F.R.A.S., 1924. 1921

REV. CARROLL HERMAN LITTLE (W),
Professor of Religious Knowledge
B.A., Roanoke, 1893; D.D., Lenoir, 1914; S.T.M., Chicago Lutheran Seminary, 1924; S.T.D., *ibid.*, 1928; Bursar, Waterloo College of Arts. 1925

VERY REV. ANDREW PARNELL MAHONEY (U),
Professor of Religious Knowledge
St. Peter's Seminary
1920

REV. THOMAS ALOYSIUS MACDONALD (A), *Professor of Science*
B.A., Toronto, 1924; M.A., Columbia, 1929. 1924

REV. WILLIAM PATRICK MCGEE (A),
Professor of Religious Knowledge
B.A., Toronto, 1923; M.A., Columbia, 1929. 1926

REV. SAMUEL E. MCKEGNEY (H), *Professor of Church History*
936 Dundas St.
B.A., Oxon., 1923; M.A., *ibid.*, 1927; M.C., 1918. 1925

ERNEST NEUDOERFFER (W), *Professor of Church History*
B.D., Mt. Airy, 1921; D.D., Wittenberg, 1930. 1926

KENNETH PERCIVAL RUTHERFORD NEVILLE (C),
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190 Bridport St.
B.A., Queen's, 1896; M.A., *ibid.*, 1897; B.A., Harvard, 1898; M.A., *ibid.*, 1899; Ph.D., Cornell, 1901; F.A.G.S., 1921; Dean of University College, 1927. 1908

WILLIAM JOHN PATTERSON (C), *Emeritus Professor of Mathematics*
856 Hellmuth Ave.
B.A., Queen's, 1888; M.A., *ibid.*, 1895. 1906

REV. JOHN HERMAN POCOCK (U), *Professor of Philosophy*
St. Peter's Seminary
B.A., Toronto, 1915. 1920

ALBERT DUNCAN ROBERTSON (C), *Professor of Zoology*
454 St. James St.
B.A., Toronto, 1910; M.A., *ibid.*, 1927. 1915

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B.A., McMaster, 1895; M.A., *ibid.*, 1899. 1920

MOTHER M. ST. ANNE (U), *Professor of French*
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B.A., Queen's, 1909; M.A., Columbia, 1922. 1919

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Lecturer in Philosophy
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B.A., Trinity, 1880; B.D., *ibid.*, 1887; M.A., *ibid.*, 1910; D.D., 1909; LL.D., 1929. 1908

REV. HERMAN SCHORTEN (W), *Professor of German*
D.D., Hartwick, 1926. 1925

ALBERT JOSIAH SLACK (C), *Professor of Public Health*
31 Belgrave Place
Ph.C., Mass. College of Pharmacy, 1904; M.D., 1920; D.P.H., 1922; Acting Dean, Faculty of Public Health. 1910

WILLIAM FERGUSON TAMBLYN (C), *Professor of English Literature*
973 Waterloo St.
B.A., Toronto, 1895; Ph.D., Columbia, 1899. 1902

REV. EDWARD JEROME TIGHE (A), *Professor of Philosophy*
B.A., 1920; M.A., Ottawa, 1929. 1921

REV. THOMAS GEORGE WALLACE (H), *Professor of Homiletics*
119 Wortley Rd.
B.A., Trinity College, Dublin, 1896; M.A., *ibid.*, 1900. 1925

REV. CHARLES CAMERON WALLER (H, C), *Professor of Hebrew*
Huron College
B.A., Cantab., 1890; M.A., *ibid.*, 1902; B.A., McGill, 1893; M.A., *ibid.*, 1896; D.D., 1915; F.A.G.S., 1925; Principal of Huron College. 1902

REV. EMIL J. WELTY (A), *Professor of Philosophy*
Lecturer in Latin and Library Science
B.A., 1919; M.A., Toronto, 1925; Ph.D., Freiburg, 1927. 1921

MOST REV. DAVID WILLIAMS (H), *Professorial Lecturer in Biblical Exegesis*
Bishopstowe
B.A., St. David's College, 1883; B.A., Oxon., 1890; M.A., *ibid.*, 1901; D.D., 1905; LL.D., Toronto, 1907; LL.D., 1924. Archbishop of Huron. 1905

RAY LEROI ALLEN (C), *Associate Professor of Physics*
203 Sherwood Ave.
B.A., Mt. Allison, 1917; M.A., *ibid.*, 1919. 1921

RONALD ALEXANDER ALLEN (C), *Associate Professor of German*
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B.A., Toronto, 1921; M.A., *ibid.*, 1922; Ph.D., Chicago, 1928. 1923

REV. FRANCIS JOSEPH BRENNAN (U), *Associate Professor of Philosophy*
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B.C.L., Laval, 1910; S.T.L., Angelicum, Rome, 1911. 1923

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B.Sc., New Brunswick, 1916; M.Sc., Queen's, 1921; F.C.I.C., 1924. 1922

REV. HENRY HENKEL (W), *Associate Professor of Philosophy*
1925

REV. SEWARD WILLIAM HIRTLE (W),
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B.A., Roanoke, 1915. 1925

REV. ERNEST J. LAJEUNESSE (A), *Associate Professor of French*
B.A., 1923; M.A., Toronto, 1928. 1928

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846 Hellmuth Ave.
B.A., 1906; M.A., 1919; F.R.S.C., 1929; University Librarian. 1917

REV. EDWARD G. LEE (A), *Associate Professor of English*
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B.A., Toronto, 1924. 1929

HAROLD AMOS LOGAN (C), *Associate Professor of Economic and Political Science*
R.R. No. 2, London
B.A., Acadia, 1912; B.A., Yale, 1913; Ph.D., Chicago, 1925. 1929

STAR FLOYD MAINE (C), *Associate Professor of History*
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B.A., 1917; B.D., Victoria, 1919; M.A., Chicago, 1922. 1926

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301 Piccadilly St.
B.S.A., Toronto, 1916; M.S., Wisconsin, 1924. 1926

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B.A., Toronto, 1905; M.A., *ibid.*, 1909; M.A., Harvard, 1920. 1921

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B.A., Toronto, 1924; M.A., *ibid.*, 1925. 1926

ANSON ROBERTSON WALKER (C), *Associate Professor of Botany*
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B.A., Queen's, 1919; M.A., Toronto, 1921. 1925

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B.A., 1923; M.A., 1924; Ph.D., Toronto, 1928. 1924

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ELEANOR CROYSDALE DOHERTY (W),
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Assistant Professor of French
B.A., 1926; M.A., Toronto, 1929; M.A., Radcliffe, 1930. 1930

ALICE WILLENA FOSTER (C), *Assistant Professor of Physics*
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First Class Secretarial Diploma, Kensington College, 1921. 1930

*CARL FREDERICK KLINCK (W), *Assistant Professor of English*
B.A., 1927; M.A., Columbia, 1929. 1928

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M.A., Oxon., 1922. 1926

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B.A., Queen's, 1924. 1925

EARLE CLARE SHELLEY (W), *Assistant Professor of French*
B.A., 1928. 1928

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A.B., Simpson, 1925; M.B.A., Harvard, 1929. 1929

CHRISTIAN SIVERTZ (C), *Assistant Professor of Chemistry*
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B.A.Sc., British Columbia, 1923; M.Sc., McGill, 1924; Ph.D., *ibid.*, 1926. 1926

*On leave of absence, 1930-31.

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B.A., McGill, 1927; M.A., *ibid.*, 1928. 1929

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B.A., Drury, 1928; M.B.A., Harvard, 1930. 1930

GILBERT NORMAN TUCKER (C), *Assistant Professor of History*
The Deanery
B.A., 1921; M.A., 1922; Ph.D., Cantab., 1930. 1930

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Oxford St. West
B.A., 1917; M.A., Columbia, 1921; Ph.D., *ibid.*, 1925; certificato della R. Università di Firenze, 1927. 1924

MAY BELLE ADAMS (Alma), *Instructor in Public Speaking*
B.L.I., Emerson, 1905. 1925

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282 Huron St.
B.A., 1924; M.A., 1926. 1924

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Kensington College, 1923. 1928

CLARA MARCIA BLEWETT (Alma), *Instructor in Latin*
B.A., Toronto, 1901; Dean of Women, Alma College. 1926

MOTHER M. BONAVENTURE (U),
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Brescia Hall
B.A., Queen's, 1917; M.A., 1923; Registrar, Ursuline College. 1923

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Cert. Physical Education, McGill, 1926. 1927

CATHERINE CAMPBELL (C), *Instructor in Library Science*
424 St. George St.
B.A., 1923. 1923

HARRIET DOBSON (Alma), *Instructor in French and German*
B.A., McGill, 1901. 1925

*First term, 1930-31.

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Hyde Park
B.A., 1925; M.A., 1926. 1930

HELEN MARGUERITE HARDY (Alma), *Instructor in English*
B.A., 1925. 1927

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892 Waterloo St.
B.A., Bishop's, 1916; B.Sc., McGill, 1923; M.Sc., *ibid.*, 1924; Ph.D., *ibid.*, 1926. 1928

EDITH CHAMNEY JAMES (Alma), *Instructor in French and German*
B.A., 1921. 1929

ADALINA JEFFREY (Alma), *Instructor in Mathematics and Science*
B.A., Toronto, 1899. 1929

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245 Wharncliffe Rd., N.
B.A., Kings, 1913. 1929

GORDON RICHARD MAGEE (C), *Instructor in Mathematics*
427 William St.
B.A., 1925; M.S., Chicago, 1926. 1927

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Brescia Hall
B.A., 1925; M.A., 1928. 1925

MOTHER M. MERCEDES (U), *Instructor in History*
Brescia Hall
B.A., 1930. 1930

WILLIAM SAMUEL MILNE (C), *Instructor in English*
200 Victoria St.
B.A., Toronto, 1926; M.A., *ibid.*, 1927. 1927

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273 Oxford St.
B.A., 1927; M.A., 1928; Dr. Univ. Paris, 1930. 1930

GEORGE HAROLD REAVELY (C), *Instructor in Geology*
209 Hale St.
B.A., 1925; M.A., 1928. 1928

DONALD OAKLEY ROBSON (C), *Instructor in Classics*
433 Oxford St.
B.A., Toronto, 1928; M.A., *ibid.*, 1929. 1930

ELIZABETH ROSS (Alma), *Instructor in Religious Education*
B.A., Mt. Allison, 1929. 1930

MOTHER M. ST. JAMES (U), *Instructor in English and History*
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B.A., Queen's, 1924; M.A., *ibid.*, 1925. 1925

FRANK STILING (C), *Instructor in English*
333 Simcoe St.
B.A., McMaster, 1926; M.A., 1928. 1928

EDWARD TAUBE (C), *Instructor in German*
919 Wellington St.
B.A., Alberta, 1928; M.A., Wisconsin, 1929. 1929

NELLIE TOPLEY-THOMAS (U),
Instructor in English and Physical Training
1927

JEAN ISABEL WALKER (C), *Instructor in Public Speaking*
4 Erie Ave.
L.C.M. 1920

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1004 Waterloo St.
B.A., New Brunswick, 1909; M.A., Radcliffe, 1912; B.Sc., Simmons, 1916. 1925

REV. MAXIME AMBROSE BRISSON (U),
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St. Peter's Seminary
1923

CECIL CYRIL CARROTHERS (C), *Lecturer in Business Administration*
241 Horton St.
B.A., 1921; Barrister-at-Law, 1924; LL.B., 1926. 1928

MABEL DUNHAM (W), *Lecturer in Library Science*
B.A. 1930

REV. JAMES BRIAN FFOULKES (U), *Lecturer in Philosophy*
St. Peter's Seminary
J.C.D., Angelicum, Rome, 1923. 1923

REV. THOMAS WEST FLANNERY (U), *Lecturer in Philosophy*
St. Peter's Seminary
Ph.L., Angelicum, Rome, 1922; S.T.D., *ibid.*, 1923. 1923

REV. LEONARD MICHAEL FORRISTAL (U),
Lecturer in Philosophy
St. Peter's Seminary
B.A., Toronto, 1913. 1923

CHARLES JOSEPH HEMOND (A), *Lecturer in Public Health*
M.B., Toronto, 1926. 1930

*ALICE RUTH LEWIS (C), *Lecturer in Psychology*
346 Piccadilly St.
B.A., Toronto, 1928; M.A., *ibid.*, 1930. 1930

DORIS LIDDICOATT (C), *Lecturer in English*
181 St. James St.
B.A., 1915; M.A., 1916. 1925

REV. E. E. LONG (Alma), *Lecturer in Philosophy*
Tillsonburg, Ont.
B.A., Toronto, 1924; B.D., Columbia, 1927. 1928

W. FLOYD MARSHALL (C), *Lecturer in Business Administration*
205 Cheapside St.
1924

PAUL MARTIN (A), *Lecturer in Economic and Political Science*
B.A., Toronto, 1925; M.A., *ibid.*, 1928; Barrister-at-Law, 1928; LL.M., Harvard, 1929.
1930

JEAN THOMPSON NEVILLE (C), *Lecturer in English*
190 Bridport St.
B.A., 1910; M.A., 1923. 1921

REV. JOHN HENRY O'LOANE (A),
Lecturer in Economic and Political Science
B.A., Toronto, 1918; M.A., Columbia, 1930. 1923

FINLEY E. PERRIN (C),
Lecturer in Economic and Political Science (Law)
227 Grand Ave.
B.A., Toronto, 1892; Barrister-at-Law, 1898; K.C., 1928. 1915

JAMES HAROLD SMYTH (W),
Lecturer in Economic and Political Science
B.A., Queen's, 1920; Barrister-at-Law, 1923. 1926

CYRIL GEORGE WATSON (A), *Lecturer in French*
B.A., Ottawa, 1925. 1929

MARION WRIGHTON (C), *Lecturer in English*
176 Albert St.
B.A., 1920. 1925

FRANK F. ZWICK (W), *Lecturer in Public Health*
M.D., Toronto, 1921. 1929

HELEN MILDRED ALLISON (C), *Assistant in English*
11 Regina St.
B.A., 1924. 1924

DOROTHY LILIAN BENNETT (C), *Senior Demonstrator in Physics*
969 Waterloo St.
B.A., New Brunswick, 1923; M.A., 1930. 1928

*Second term, 1930-31.

LORA BILLING (C), *Demonstrator in Applied Biology*
641 Wellington St.
B.A., 1929. 1929

BARBARA DICKINSON (C), *Assistant in Physical Education*
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Certificate, Physical Education, McGill, 1929. 1929

GAR ELSON (C), *Research Assistant in Physics*
1135 Richmond St.
B.A., 1929; M.A., 1930. 1929

MOE HEGLEY FRED FRIEDMAN (C), *Demonstrator in Zoology*
209 Sydenham St.
B.Sc., McGill, 1930. 1930

NANCY FROST (C), *Demonstrator in Zoology*
871 Colborne St.
B.Sc., Acadia, 1929. 1929

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496 Dundas St.
B.A., 1929. 1929

MABEL AGNES HYND (C), *Assistant in Secretarial Science*
234 St. George St.
1919

EDWIN ROPER JARMAIN (C), *Demonstrator in Physics*
9 Horn St.
B.A.Sc., Toronto, 1930. 1930

FLORENCE EVELYN JONES (C), *Demonstrator in Botany*
277 Victoria St.
B.A., 1930. 1930

WILLIAM MCLEAN (C), *Demonstrator in Chemistry*
16 Ridgeway
B.A., Acadia, 1929. 1929

MARGARET MAY MELVILLE (C), *Senior Demonstrator in Zoology*
871 Colborne St.
B.A., Queen's, 1928; M.A., 1930. 1928

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895 Richmond St.
B.A., 1929. 1930

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B.A., 1929. 1929

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277 Victoria St.
B.A., Acadia, 1928. 1930

*IDA GERTRUDE ROWNTREE (C), *Demonstrator in Chemistry*
546 Queen's Ave.
B.A., 1919. 1920

*First term 1930-31.

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200 Victoria St.
B.A., Acadia, 1930. 1930

ALICE CHRISTINA SMYTH (C), *Demonstrator in Botany*
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B.A., Queen's, 1930. 1930

*VAGN EJGIL GUNNAR TEXEL (C), *Demonstrator in Chemistry*
867B Waterloo St.
Graduate in Pharmacy, Copenhagen, 1926. 1930

*LOUISE CAROLYN WISMER (C), *Assistant in Secretarial Science*
Brescia Hall
B.A., 1930. 1930

*Second term, 1930-31.

GENERAL INFORMATION

The University of Western Ontario is composed of three units, the College of Arts (University College), the Medical School and the Institute of Public Health; affiliated with the University are three colleges teaching full four-year Arts courses, viz.: Assumption College, Sandwich; Ursuline College, London; Waterloo College, Waterloo; one Junior College teaching the first two years in Arts only, Alma College, St. Thomas; one theological college, Huron College, London.

By the 1908 amendments to the act incorporating the University of Western Ontario, it was stipulated that the government of the University should be absolutely undenominational and be under public, municipal or provincial control or any or all of these.

THE LIBRARIES

The libraries of the University of Western Ontario total about 100,000 volumes, with several thousand pamphlets.

In the Barnett collection are many exceedingly rare volumes, not to be found elsewhere in Canada. The Shakespeariana number about 1,500 volumes and several thousand pamphlets. The Barnett collection also includes a large assortment of rare items in Canadian and American history with extensive selections in folklore, English literature, European history, the drama, church history and other fields.

DEGREES

By its charter the University of Western Ontario may confer degrees in Arts, Medicine, Science, Agriculture, Law, Education and Theology, upon persons who, having complied with the requirements prescribed, are admitted to such degrees by the Senate.

The degrees at present conferred by the University are:

1. Honorary Degrees; *Doctor of Divinity; Doctor of Science; Doctor of Laws.
2. Degrees by examination: Bachelor of Arts (B.A.): Bachelor of Science in Nursing (B.Sc.); *Bachelor of Divinity (B.D.); Bachelor of Laws (LL.B.); Master of Arts (M.A.); Master of Science (M.Sc.); Doctor of Medicine (M.D.); Diploma of Public Health (D.P.H.); Doctor of Public Health (Dr. P.H.); Certificate of Public Health Nurse (C.P.H.N.); Certificate of Instructor in Nursing (C.I.N.); and Certificate of Hospital Administrator (C.H.A.); *Doctor of Divinity (D.D.).

*The degrees so indicated can be conferred by the University only on the recommendation of an affiliated theological college. The last degree, Doctor of Divinity by examination, is under the jurisdiction of the Board of Theological Colleges of the Church of England in Canada.

Faculty of Arts

University College

(London, Ontario)

Dean
K. P. R. NEVILLE, M.A., PH.D.

Secretary
R. A. ALLEN, PH.D.

Director of Summer School and Extramural Department
H. R. KINGSTON, PH.D., F.R.A.S.

Representative on the University Library Board
W. F. TAMBLYN, PH.D.

Representative on the Athletic Board
N. C. HART, M.A.

Representatives on University Senate
DEAN K. P. R. NEVILLE, *ex officio*
J. W. RUSSELL, M.A.

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HENRY W. AUDEN, M.A.,
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MELVIN E. BASSETT, M.A.,
Professor of Romance Languages.

J. HOWARD CROCKER, M.P.E.,
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*REV. RICHARD DAVIDSON, M.A., PH.D., D.D.,
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RAYMOND C. DEARLE, PH.D.,
Professor of Physics.

JOHN D. DETWILER, PH.D., F.A.A.A.S.,
Professor of Applied Biology.

ARTHUR G. DORLAND, PH.D.,
Professor of History.

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†For additional details see pp. 12.
*Visiting professor, 1st term, 1930-31.

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JOHN W. RUSSELL, M.A.,
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ALBERT JOSIAH SLACK, M.D., D.P.H.,
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RONALD A. ALLEN, PH.D.,
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*Visiting professor, 2nd term, 1930-31.

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ANSON R. WALKER, M.A.,
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ARTHUR WOODS, M.A.,
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HELEN I. BATTLE, PH.D.,
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MARK K. INMAN, M.A.,
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JOHN D. RALPH, B.A.,
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LLOYD SIPHERD, M.B.A.,
Assistant Professor of Business Administration.

CHRISTIAN SIVERTZ, PH.D.,
Assistant Professor of Chemistry.

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*Second term, 1930-31.

*MARGARET THOMPSON,
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WALTER A. THOMPSON, M.B.A.,
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GILBERT N. TUCKER, PH.D.,
Assistant Professor of History.

DOROTHY TURVILLE, PH.D.,
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LORNA BIRTLES,
Instructor in Secretarial Science.

CATHERINE CAMPBELL, B.A.,
Instructor in Library Science.

A. M. I. A. WILLIAM DURNFORD, M.A.,
Instructor in Physics.

KENNETH WILLIAM HUNTEN, PH.D.,
Instructor in Chemistry.

HERBERT E. JENKIN, B.A.,
Instructor in Romance Languages.

GORDON R. MAGEE, M.S.,
Instructor in Mathematics.

WILLIAM S. MILNE, M.A.,
Instructor in English.

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Instructor in Romance Languages.

G. HAROLD REAVELY, M.A.,
Instructor in Geology.

DONALD O. ROBSON, M.A.,
Instructor in Classics.

FRANK STILING, M.A.,
Instructor in English.

EDWARD TAUBE, M.A.,
Instructor in German.

---

*First term, 1930-31.

JEAN I. WALKER, L.C.M.,
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BEATRICE W. WELLING, B.Sc., M.A.,
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CECIL C. CARROTHERS, B.A., LL.B.,
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*A. RUTH LEWIS, M.A.,
Lecturer in Psychology.

DORIS LIDDICOATT, M.A.,
Lecturer in English.

W. F. MARSHALL,
Lecturer in Business Administration.

JEAN T. NEVILLE, M.A.,
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FINLEY E. PERRIN, B.A., K.C.,
Lecturer in Political Economy (Law).

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Lecturer in Philosophy.

MARION WRIGHTON, B.A.,
Lecturer in English.

HELEN M. ALLISON, B.A.,
Assistant in English.

DOROTHY L. BENNETT, M.A.,
Senior Demonstrator in Physics.

LORA BILLING, B.A.,
Demonstrator in Applied Biology.

BARBARA DICKINSON,
Assistant in Physical Education.

GAR ELSON, M.A.,
Research Assistant in Physics.

M. H. FRED FRIEDMAN, B.Sc.,
Demonstrator in Zoology.

NANCY FROST, B.Sc.,
Demonstrator in Zoology.

*Second term, 1930-31.

ELINOR HIGGINS, B.A.,
Technician and Demonstrator in Zoology.

MABEL A. HYND,
Assistant in Secretarial Science.

EDWIN R. JARMAIN, B.A.Sc.,
Demonstrator in Physics.

F. EVELYN JONES, B.A.,
Demonstrator in Botany.

WILLIAM MCLEAN, B.A.,
Demonstrator in Chemistry.

MARGARET M. MELVILLE, M.A.,
Senior Demonstrator in Zoology.

STANLEY A. MORTIN, B.A.,
Assistant in Business Administration.

MARGARET OVENS, B.A.,
Demonstrator in Zoology.

FRANCES D. PARLEE, B.A.,
Demonstrator in Chemistry.

*IDA GERTRUDE ROWNTREE, B.A.,
Demonstrator in Chemistry.

LOUIS SIMMONS, B.A.,
Demonstrator in Physics

ALICE SMYTH, B.A.,
Demonstrator in Botany.

**VAGN E. TEXEL,
Demonstrator in Chemistry.

**LOUISE WISMER, B.A.,
Assistant in Secretarial Science.

Student Assistants

J. DARCH	*Chemistry*
ISABEL MCCRACKEN	*Botany*
ELEANOR MCEWEN	*Physics*
A. L. MUSSELMAN	*Physics*
H. J. RUNNALLS	*Physics*
J. SPEIGHT	*Physics*
JEAN STEWART	*Chemistry*
J. WILKER	*Physics*

*First term, 1930-31.
**Second term, 1930-31.

Alma College

(St. Thomas, Ontario)

Principal

REV. PERRY S. DOBSON, M.A., D.D.

†Officers of Instruction

REV. PERRY S. DOBSON, M.A., D.D.,
Professor of Classics.

MAY BELLE ADAMS, B.L.I.,
Instructor in Public Speaking.

MRS. CLARA BLEWETT, B.A.,
Instructor in Latin.

DOROTHY BURRELL,
Instructor in Physical Training.

HARRIET DOBSON, B.A.,
Instructor in French and German.

HELEN M. HARDY, B.A.,
Instructor in English.

EDITH C. JAMES, B.A.,
Instructor in French and German.

MRS. ADALINA JEFFREY, B.A.,
Instructor in Mathematics and Science.

ELIZABETH ROSS, B.A.,
Instructor in Religious Education.

REV. E. E. LONG, B.A., B.D.,
Lecturer in Philosophy.

Assumption College

(Sandwich, Ontario)

Principal

VERY REV. V. L. KENNEDY, M.A.

Registrar

REV. T. A. MACDONALD, M.A.

Bursar

REV. W. J. STOREY, B.A.

†For additional details see pp. 12 ff.

†Officers of Instruction

REV. P. J. BART, M.A.,
Professor of French.
Lecturer in History of Philosophy.

REV. J. V. BURKE, B.A.,
Professor of English.

REV. B. N. FORNER, B.A.,
Professor of History.
Lecturer in Economic and Political Science.

REV. V. J. GUINAN, M.A.,
Professor of Economic and Political Science.
Lecturer in Mathematics.

VERY REV. V. L. KENNEDY, M.A.,
Professor of Classics.

REV. T. A. MACDONALD, M.A.,
Professor of Science.

REV. W. P. MCGEE, M.A.,
Professor of Religious Knowledge.

REV. E. J. TIGHE, M.A.,
Professor of Philosophy.

REV. E. J. WELTY, M.A., PH.D.,
Professor of Philosophy.
Lecturer in Latin and Library Science.

REV. E. G. LEE, B.A.,
Associate Professor of English.
Lecturer in History.

REV. T. J. VAHEY, M.A.,
Associate Professor of Classics.
Lecturer in History.

REV. E. J. LAJEUNESSE, M.A.,
Associate Professor of French.

C. J. HEMOND, M.B.,
Lecturer in Public Health.

P. MARTIN, M.A., LL.M.,
Lecturer in Economic and Political Science.

REV. J. H. O'LOANE, M.A.,
Lecturer in Economic and Political Science.

C. WATSON, B.A.,
Lecturer in French.

† For additional details see pp. 12 ff.

Huron College

(London, Ontario)

Principal
REV. CHARLES CAMERON WALLER, M.A., D.D., F.A.G.S.

Dean of Residence
REV. JAMES H. CRAIG, M.A.

Treasurer
J. K. H. POPE

Secretary to the Principal
DORIS AUDEN

†Officers of Instruction

REV. FRANK ANDERSON, M.A., D.D.,
Professor of Biblical Greek.
Professor of Church History.

REV. S. E. MCKEGNEY, M.A., M.C.,
Professor of Church History.

VEN. ARCHDEACON G. B. SAGE, M.A., D.D., LL.D.,
Professor of Apologetics.

REV. T. G. WALLACE, M.A.,
Professor of Homiletics.

REV. C. CAMERON WALLER, M.A., D.D.,
Professor of Divinity.

MOST REV. DAVID WILLIAMS, D.D., LL.D.,
Professorial Lecturer in Biblical Exegesis.

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†For additional details see pp. 12 ff.

Ursuline College

(London, Ontario)

Dean

M. M. IMMACULATE, B.A.

Registrar

M. M. BONAVENTURE, M.A.

†Officers of Instruction

M. M. CARMEL, M.A.,
Professor of English.

M. M. IMMACULATE, B.A.,
Professor of Mathematics.

VERY REV. A. P. MAHONEY,
Professor of Religious Knowledge.

REV. J. H. POCOCK, B.A.,
Professor of Philosophy.

M. M. ST. ANNE, M.A.,
Professor of French.

REV. F. J. BRENNAN, S.T.L.,
Associate Professor of Philosophy.

M. M. BONAVENTURE, M.A.,
Instructor in English and History.

REV. M. A. BRISSON,
Lecturer in Religious Knowledge.

REV. J. B. FFOULKES, J.C.D.,
Lecturer in Philosophy.

REV. W. T. FLANNERY, PH.L., S.T.D.,
Lecturer in Philosophy.

REV. L. M. FORRISTAL, B.A.,
Lecturer in Philosophy.

M. M. MARIE, M.A.,
Instructor in French.

M. M. MERCEDES, B.A.,
Instructor in History.

M. M. ST. JAMES, M.A.,
Instructor in English and History.

NELLIE TOPLEY-THOMAS,
Instructor in English and Physical Training.

†For additional details, see pp.12 ff.

Waterloo College

(Waterloo, Ontario)

President
FREDERICK B. CLAUSEN

Dean
WILLIS C. FROATS, M.A., B.PAED.

Registrar
ROY J. E. HIRTLE, M.SC.

Bursar
REV. C. H. LITTLE, B.A., D.D., S.T.D.

Librarian
REV. H. HENKEL

Dean of Women
HANNAH MARIE HAUG, M.A.

†Officers of Instruction

REV. F. B. CLAUSEN,
Professor of Religious Knowledge.

WILLIS C. FROATS, M.A., B.PAED.,
Professor of Classics.

HANNAH M. HAUG, M.A.,
Professor of History.

ROY J. E. HIRTLE, M.SC.,
Professor of Science.
Associate Professor of Mathematics.

REV. C. H. LITTLE, B.A., S.T.D., D.D.,
Professor of Religious Knowledge.

REV. E. NEUDOERFFER, D.D.,
Professor of Church History.

REV. HERMAN SCHORTEN, D.D.,
Professor of German.

REV. H. HENKEL,
Associate Professor of Philosophy.

†For additional details, see pp. 12 ff.

REV. SEWARD W. HIRTLE, B.A.,
Associate Professor of Classics.

ELEANOR C. DOHERTY, M.A.,
Assistant Professor of English.
Assistant Professor of French.

*CARL F. KLINCK, M.A.,
Assistant Professor of English.

EARLE CLARE SHELLEY, B.A.,
Assistant Professor of French.

B. MABEL DUNHAM, B.A.,
Lecturer in Library Science.

JAMES H. SMYTH, B.A., Barrister-at-Law,
Lecturer in Economic and Political Science.

FRANK F. ZWICK, M.D.,
Lecturer in Public Health.

Student Assistants

ALVIN PAULI, *Physical Training.*

ELIZABETH SPOHN, *Physical Training.*

*On leave of absence, 1930-31.

REGULATIONS

MATRICULATION

Subjects: Pass Junior

A candidate for Pass Matriculation must write upon the examinations conducted by the Department of Education of Ontario in the following subjects of the Middle School:

Latin (Authors, one paper; Composition, one paper).
English (Literature, one paper; Composition, one paper).
History (Canadian, one paper; *Ancient, one paper).
Mathematics (Algebra, one paper; Geometry, one paper).

Any two of:

Greek (Authors, one paper; Composition, one paper).
French (Authors, one paper; Composition, one paper).
German (Authors, one paper; Composition, one paper).
Spanish (Authors, one paper; Composition, one paper).

or

Italian (Authors, one paper; Composition, one paper).
Experimental Science (Physics, one paper; Chemistry, one paper).

or

Agriculture (Part I, one paper; Part II, one paper).

In certain cases foreign students may present themselves for examination in their language instead of Greek or French or German or Spanish or Italian, when the language and the curriculum in that language have been approved by the Senate. The examination in an approved language consists of two papers similar in character to those in English.

NOTE—Students registered with theological bodies may present First Year Hebrew in lieu of one optional subject.

Subjects: Honour

A candidate for Honour Matriculation must write upon the examinations conducted by the Department of Education of Ontario in one or more of the following subjects of the Upper School:

Greek (Authors, one paper; Composition, one paper).
Latin (Authors, one paper; Composition, one paper).
English (Literature, one paper; Composition, one paper).
French (Authors, one paper; Composition, one paper).
German (Authors, one paper; Composition, one paper).
Spanish (Authors, one paper; Composition, one paper).
History (one paper).
Mathematics (Algebra, one paper; Geometry, one paper; Trigonometry, one paper).
Physics (one paper).
Chemistry (one paper).
Biology (Botany, one paper; Zoology, one paper).

*Music may be offered as an option for Ancient History.

These examinations, both Pass and Honour, are conducted by the Department of Education at various centres throughout the Province of Ontario in June of each year.

Percentages: Pass Junior

A candidate for Pass Matriculation will be allowed to write on one or more papers at a time in any order, and on obtaining at least fifty per cent. of the marks assigned to any paper will be given credit for having passed in such paper and will receive a certificate of such standing.

A candidate for Honour Matriculation will be allowed to write on one or more papers at a time in any order.

Percentages: Honour

In order to secure First Class Honours in a subject a candidate must obtain at one examination at least seventy-five per cent. of the marks assigned to that subject and at least fifty per cent. in each paper of that subject.

In order to secure Second Class Honours in a subject a candidate must obtain at one examination at least sixty-six per cent. of the marks assigned to that subject and at least fifty per cent. in each paper of that subject.

In order to secure Third Class Honours in a subject a candidate must obtain at one examination at least sixty per cent. of the marks assigned to that subject and at least fifty per cent. in each paper of that subject.

A candidate who fails to obtain First, Second or Third Class Honours in a subject under the above regulations, may secure credit for the subject by obtaining at least fifty per cent. on each paper of the subject, not necessarily at one examination.

Such credit in a subject will be accepted by the University as covering the Honour Matriculation requirements with respect to that subject for admission to any faculty.

EQUIVALENT EXAMINATIONS

Certificates of having passed the subjects common to Pass or Honour Matriculation and any of the following examinations will be accepted *pro tanto*, provided always that the standards of these certificates as to subjects and percentages meet the requirements of this University.

Province of Ontario—The examinations for Second or First Class Entrance to Normal Schools.

Province of Quebec—The University School Leaving examination; Intermediate School Diploma.

Province of New Brunswick—The examination for Superior and Grammar School Licenses (Grades XI and XII).

Province of Nova Scotia—The Junior and Senior Leaving examinations (Grades XI and XII).

Province of Manitoba—Grade XI and Grade XII examinations.

Province of British Columbia — The Intermediate and Senior Grade examinations; Junior and Senior Matriculation examinations.

Province of Prince Edward Island—The First Class Teachers' License examination.

Province of Alberta—Grade XI and Grade XII examinations.

Province of Saskatchewan—The First and Second Class Teachers' examinations; the Junior and Senior Matriculation examinations.

Newfoundland—Associate in Arts examinations.

The senior local examinations conducted by the University of Oxford and the University of Cambridge may be accepted *pro tanto*.

ADMISSION

All intending students of The University of Western Ontario should secure application blanks for entrance sufficiently early to enable them to return the blanks and their qualifying certificates to the Registrar by Sept. 10th, if possible.

General Course

Candidates will be admitted to the General Course in Arts if they present certificates of complete Pass Junior Matriculation or the equivalent, as outlined above (p. 37).

Honour Courses: By Honour Matriculation

Candidates presenting Upper School Certificates or the equivalent in at least four subjects, together with complete Pass Junior Matriculation, will be admitted to the Honour Course of the First Year in the Departments in the subjects of which their certificates show that they have obtained at least Third Class Honours (60 per cent.) in **each** subject.

Honour Courses: By First Year General

Students who have completed the first year of the General Course and who have obtained at least 60 per cent. of the aggregate marks in the work of that year may enter upon the

first year of an Honour Course in any Department in which they have obtained 66 per cent. of the aggregate marks in the work of that Department. Candidates who wish to enter the Honour Course in Mathematics and Physics must have obtained 66 per cent. in Trigonometry of the second year as well as satisfied the above requirements.

Students who have obtained 60 per cent. of the aggregate marks in the work of the first year of the General Course will be admitted to the Honour Course in Philosophy in Assumption and Ursuline Colleges, and may complete the course in three years. For the Honour Course in Philosophy in University College, see p. 91.

Honour Courses: By First and Second Years General

Students who have completed the first and second years of the General Course and who have obtained 60 per cent. of the aggregate marks in each year may enter upon the second year of an Honour Course in any subject in which they have obtained 66 per cent. of the aggregate marks in that subject in the first and second years, except in the courses in Mathematics and the Sciences.

Candidates asking admission on certificates other than those mentioned above must present the official evidence of their academic standing to the Registrar at least two weeks before the opening of the session that they wish to attend.

LENGTH OF COURSES

The General Course is a four-year course from Pass Junior Matriculation, but it can be completed in three years of satisfactory work by a student who presents a First Class Certificate obtained at the examinations of the Department of Education of the Province of Ontario; see page 69. The Honour Courses, except as mentioned below, are five-year courses from complete Pass Junior Matriculation or four-year courses from complete Pass Junior Matriculation and Honour Matriculation in four subjects specified for each course. The Honour Courses in Philosophy and in Economic and Political Science require four years from complete Pass Junior Matriculation.

ADVANCED STANDING

From Collegiates

Candidates presenting Upper School certificates in Ancient or Modern Languages or Mathematics, or the recognized equivalents of such certificates, may be credited with the first year in the General Course in those subjects.

From Universities

All applications for advanced standing, except on certificates indicated above, must be accompanied by official certificates from the institution where previous work has been done, and be presented to the Registrar not later than September 10. These official documents must include certificate of honourable dismissal from the institution last attended. No student can register in the University of Western Ontario if he cannot re-register in the institution from which he wishes to transfer.

SPECIAL STUDENTS

Students who are over twenty-one years of age, though they may not be able to present qualifications for admission to candidacy for degrees, may be admitted to classes in the University, if, in the opinion of the professors in charge, they are qualified to pursue satisfactorily the courses chosen. Such special students must satisfy the professors in regard to regular attendance and attention to the work of their classes. They will not be allowed to advance from year to year in a department without taking the regular examinations. Special students will not be admitted to more than twelve credits of work in any year.

The special student who has satisfactorily completed the work of the first year in the General Course will be considered to have secured standing sufficient to permit his proceeding to a degree on the same terms as one who at entrance presented complete Pass Junior Matriculation.

EXAMINATIONS

General Courses

Regular examinations will be held for the General Arts Courses in January and in May. Students must obtain the required percentage, at least 50, both for the first and for the second term's work in each course.

Students in the General Courses will be ranked in order of merit in each course in six grades, A, B, C, D, E, F. The minimum for Grade A is 75 per cent. of the marks obtainable; for Grade B, 66 per cent.; for Grade C, 60 per cent.; for Grade D, the minimum passing grade, 50 per cent. A mark that falls in class E, 40 to 49 per cent., entitles the student to a supplemental, subject to the regulations governing supplementals (see page 43). Grade F, less than 40 per cent., indicates a total failure; this means that the course has to be repeated in class.

No student will be admitted to the degree of Bachelor of Arts in the General Course who has not obtained grade D on

all the prescribed and elective work of his course and who has not obtained grade C on one-half the credits required for his degree, and grade C on one-half the credits of his senior year.

Honour Courses

The regular examinations for the Honour Courses will be held in May; but where an Honour Course or a definite portion of an Honour Course has been completed by the end of the first term the instructor may set a final examination on that portion of the work. This examination is to be held during the regular January examination period. Third and fourth year Honour Courses may continue without interruption during the mid-year examination period.

Candidates in the Honour Courses in any department will be ranked in order of merit in that department in four classes; those obtaining 75 per cent. or over of the total number of marks will be placed in Class I; those obtaining 66 per cent. and less than 75 per cent. will be placed in Class II; those who obtain 60 per cent. and less than 66 per cent. will be placed in Class III; those who obtain 50 per cent., the minimum for pass, but less than 60 per cent., will be placed in Class IV; but an average of Class IV over all the honor subjects of the fourth year will entitle the candidate to a General Course and not an Honour Degree. (See page 45).

Comprehensive Examinations

Comprehensive Examinations: It is proposed that within the next three or four years various Departments of the University College of Arts introduce Comprehensive Examinations for Honour students. These examinations, probably partly oral and partly written, will be given at the end of the senior year and will cover the broader aspects of the student's entire field. To what degree they will affect his general grading, and whether or not they are to supplant the regular senior year examinations, is yet to be determined. To meet their purpose, however, students entering henceforth upon Honour Courses are admonished that the end and aim of their college work is not simply the creditable passing of courses term after term, but the gradual acquisition of a broader and deeper acquaintance with their particular chosen field of knowledge and an intelligent appreciation of its interrelations and bearings upon allied fields and upon higher culture in general.

Term Work

In all subjects of the General Course, except the Sciences, the ratio of term work marks to examination marks will be as 50 to 100. To pass, a student must obtain 50 per cent. on the whole of a subject, with 50 per cent. in term work and 50 per cent. in examinations. In the Sciences the ratio of term work

marks to examination marks is determined by the teaching staff in each subject.

In Honour Courses the ratio of term work marks to examination marks is determined by the teaching staff in the subjects involved.

Term work in a course will not be credited to a student beyond the year in which the course is taken.

SUPPLEMENTALS

A supplemental examination is an examination set on work in which a student has been conditioned. Such examinations will be held in September for those who have been conditioned in the first term or in the second term or in the work of the whole year in any course. (See first paragraph under **Failures**).

A supplemental will be set in May for those candidates for graduation who have been conditioned in work of the first term of their final year. But these students are subject to the same restrictions as are here set down for all other students.

Supplemental examinations will not be allowed any one student in more than four credits of work.

Students conditioned at the January or May examinations will be expected to attempt to remove their conditions at the supplemental examinations of the September following such failure.

Students whose grade is F will not have the privilege of writing a supplemental. They must repeat the course in class.

No supplemental examination will be allowed in Honour subjects except in cases where Honour subjects are offered by General Course students to complete the necessary credit requirements of their course.

No special supplemental examination will be set within three months of failure.

SPECIAL EXAMINATIONS

No General Course student can write special examinations on more than four credits of work in one academic year (July 1–June 30).

No Honour Course student can write a special examination in any academic year if he or she has failed in more than one Honour examination paper or in that paper has secured less than 35 per cent.

No special examination will be set within three months of failure.

FAILURES

Any student who at the midyear examinations of any year fails to get credit for one-half of the work for which he or she is registered will be automatically dropped from the University for the second term of that year, but may re-register for the following winter session. Such student will get no credit for the part of his or her work successfully carried in the first term.

General Course

Students who fail to obtain 50 per cent. in the regular or supplemental examinations in a course will not be eligible for re-examination without a further year's attendance on the lectures in the course in which they have failed. **Provision must be made by the student to repeat such course the year after failure no matter what subject or subjects must be postponed to make this possible.**

A student may repeat no single course oftener than once.

In subjects where each year's work depends directly upon that of a preceding year, no student who has failed may take up the work of the following year. The interpretation and application of this rule rests with the Committee on Academic Standing.

A student who, at the close of the September supplementals, has not obtained standing in at least two-thirds of the credits of his year will not rank academically as a student of the next higher year.

A student who for two consecutive years has failed to obtain credit in one-half the work for which he has registered each year will be automatically dropped from the University. He may not re-register.

A student who has not been granted complete first year standing may not enter upon any work of the third year; a student who has not been granted complete second year standing may not enter upon any work of the fourth year.

Honour Course

A student who, in an Honour Course, for two successive years averages below 60 per cent. in the honour subjects of his course, or who in honours in any one year gets no rating higher than 59 per cent. in the honour subjects of that year, shall be automatically transferred to the General Course, subject to such conditions and limitations as the Committee on Academic Standing may impose.

A candidate who competes for Honours at the examination for the degree of Bachelor of Arts and fails to obtain the requisite per cent. to entitle him to be classed in Honours may, on the recommendation of the Committee on Academic Standing, be awarded a degree in the General Course, it being the option of the candidate to compete again at a subsequent examination for the degree in Honours.

A candidate who fails on the first examination for the degree of Bachelor of Arts will be charged an additional fee of five dollars on each subsequent attempt.

ATTENDANCE AT LECTURES

Students who have attended less than 90 per cent. of the lectures in a course for the term shall be debarred from taking the regular examinations on that course.

APPEALS

Regulations have been made by the Senate governing appeals by students where such action is necessary. A copy of these regulations can be seen in the Registrar's office should occasion arise.

CONDUCT

No student will be registered in any year, or be allowed to continue in attendance after registration, if his presence is deemed to be prejudicial to the interests of the University. Registration in any year does not entitle a student to registration in a subsequent year.

Students are required to conduct themselves in an orderly manner in the lecture rooms and in every other part of the University premises, not only during lectures, but at all times.

The name of the University is not to be used in any connection in any publication without the permission of the Administrative Council, and no class or group of students is to engage in any public effort as a body representing the University, or any class or other organization within the University, without the permission of the said Council.

The Dean may suspend any student until such time as his case may be considered by the Administrative Council.

GENERAL

When a student begins a foreign language in the University, no credit towards a degree will be given for the first year of that language unless that year is followed by a second year in the same language.

Preparatory Greek is offered as an option in the first year of the General Course for students who present for entrance complete Pass Junior Matriculation without Greek. Credit towards a degree for this preparatory Greek will not be given unless it is supplemented by at least two years of College Greek, either New Testament or Classical.

No course that is an optional course need be given unless it is elected by at least five students.

No student will be allowed to take more than three credits in excess of the credits required for the year of his course for which he is registered, except on permission of the Academic Standing Committee. For any extra credits in excess of three permitted by action of Academic Standing Committee the student will be charged an extra tuition fee of $6.00 per credit, together with such laboratory and caution fees as pertain to the extra Course.

THE B.A. EXTRAMURAL COURSE

The Department of Education of Ontario approves of a degree in this course as academic qualification for an ordinary High School Assistant's certificate.

An extramural course is one which a student may pursue without attendance upon classes (except as provided below), and in which he may write the examinations at the periods prescribed for resident students. The conditions for admission to such courses are the same as those required for admission to the intramural general courses (see page 39).

No extramural student is eligible for a degree, unless he has attended classes in this University for two academic years or one academic year and two summer schools, or the equivalent in summer sessions (6).

No student may take intramural and extramural work concurrently.

Extramural courses are of two kinds: (a) complementary extramural courses, and (b) pure extramural courses.

(a) Complementary Extramural Courses

1. A complementary extramural course is the extramural complement of a summer course and must be completed at the May examinations of the winter term immediately following the summer in which the summer school portion of the course was taken. Otherwise a Special Examination fee ($15.00) will be required for the privilege of writing the examination at a later date, and in this case the examination will be set on the work of the current Announcement of Courses. Credit for the summer school portion of the course can not be held for more than two calendar years.

2. Each summer term course, together with its complementary extramural course, is equal in credits to the subject of the B.A. intramural course that corresponds to it in prerequisites and in difficulty.

3. Students are eligible to begin a complementary extramural course when they have passed the examination of the summer term course of which it is the complement.

4. A complementary extramural course has been completed when the student has submitted to the instructor in charge the prescribed exercises, essays, etc., has obtained satisfactory standing therein and has passed the final examination of the course for that year.

(b) Pure Extramural Courses

Pure extramural courses are independent of attendance on classes and are open primarily to students who have completed six summer terms or their equivalent in the B.A. General Course or Honour Courses. Courses in the Sciences (including Psychology), in the elements of any foreign language, and all honour courses not also given as pass courses, may not be included among these courses. Students pursuing pure extramural courses are subject to the same regulations in regard to exercises, essays, examinations, etc., as those pursuing complementary extramural courses.

SUMMER SCHOOL

1. Each year University College offers a summer session in addition to the winter session. This opens in the first or second week in July and continues thereafter for six weeks, classes being held each day of the week. The curriculum of each subject offered in the summer session varies, according to

the nature of the subject, from one-third to one-half of the curriculum of the same subject as offered in the winter session (see paragraphs 5 and 6).

2. The Summer School is organized especially in the interest of:

I. Teachers who wish to improve their scholarship;

II. Extramural students who find it difficult to give up a whole year at any one time to satisfy the residence requirements for a degree;

III. Students who have received conditions on the regular university work the preceding session; this is the only exception to the rule that no work in the Summer School will be accepted in lieu of any or all of any year's work in an intramural course.

3. Admission to the Summer School is granted on exactly the same terms as to any winter session.

4. Students who are not candidates for degrees may be admitted to certain courses if they are qualified to pursue these courses profitably. They are expected to conform to the same rules of attendance and of application to the work of the class as are laid down for students who are seeking credit.

5. Each summer term course, together with its complementary extramural course, is equal in content and credits to the subject of the B.A. intramural course that corresponds to it in prerequisites and in difficulty. With the exception noted in the next paragraph, the work of the summer session in each course counts as one-third or one-half of the requirements for the whole year in that course.

The whole of a course listed in the winter session as a one credit course is covered in the summer session in which the course is offered.

6. Since no extramural work is offered in the Sciences, a student desiring to obtain the equivalent of one year's work of the B.A. General Course in a Science Option must attend two summer sessions.

7. A student who attends six summer sessions and obtains twenty-four credits for work taken therein will be considered to have satisfied the residence requirement demanded for graduation from this University and, if possessed of proper entrance qualifications, may proceed to the degree of B.A. in an extramural course without further attendance.

Attendance on classes conducted by the Extension Department (see below) may be counted in this number of credits.

8. The subjects offered in the Summer School are taken from the courses offered in the winter session to the General Course students and in the first and second years of the Honour Courses leading to Specialist Certificates of the Department of Education of Ontario. No work of the third and fourth years of any Honour Course will be offered in Summer School unless it is also part of the General Course.

Complete information concerning the Summer School and extramural work is contained in the Summer School Announcement and the Bulletin on Summer School and Extramural Work. These may be had by applying to the Registrar or the Director of the Summer School and Extramural Department.

Extension Department

During the winter session the University conducts regular weekly credit classes in several centres in Western Ontario. These classes are taught by members of the University staff and a student who satisfies the attendance requirement and passes the regular University examination can obtain credit for the course. (For further information write to the Director of the Extension Department).

THE M.A. DEGREE

Academic Qualification

Candidates must be graduates in Arts of this or some other accredited university with not lower than Second Class Honours (66 per cent.) in the Third and Fourth Years of a full Honour Course, or must have attained to the standing in the General Course indicated in the section below, and subsequently have completed in attendance a year's work such as will in the opinion of the committees supervising their graduate study bring them up to the status of graduates in an Honour Course. This year cannot be counted as satisfying the attendance requirement (mentioned below) imposed on all candidates for the degree of Master of Arts.

Graduates in Arts of this University, who in work of the last two years of the General Course obtained 66 per cent. of the aggregate possible marks, who did not fall below 60 per cent. in more than 6 credits, and who obtained Grade C or higher in the rest of the work required for graduation in their several courses, may become candidates for the degree of Master

of Arts, but they cannot hope to obtain the degree in less than two years of graduate study.

Graduates of accredited universities who are candidates for the Degree of Master of Arts in this University must furnish official evidence that they have obtained the Degree of B.A., and that their standing in the third and fourth years of their course corresponds to the standard of the two sections above.

Each candidate must register not later than September 30th; the candidate shall then be placed, by the Council of the Faculty of Arts, under the guidance of two of the professors in whose departments the work to be taken lies, who shall be responsible for conducting the examination and for reporting to the Faculty upon the result of the examination. The examination shall be given during the annual May examinations.

Attendance All candidates must be in registered attendance in one of the Colleges of Arts of this University for at least one academic year, under the direction of the Council of the Faculty of Arts, though the work may be spread over two academic years at the option of the candidate.

Standards All candidates must take a prescribed course, pass an examination therein and obtain at least Second Class Honours (66 per cent.) in it, if it lie in an Honour Department, or 75 per cent. if it lie in the General Course.

A candidate who passes the examinations of the Third and Fourth Years of the major subject or subjects of an Honour Course other than that in which he obtained Honours at graduation, and who obtains Second Class Honours (66 per cent.) therein and whose thesis is satisfactory, may be granted the Master's Degree.

A candidate who at graduation obtained First Class Honours in each of the Third and Fourth Years of his Honour Course, whose thesis is satisfactory and who obtains First Class Honour standing in the examination on his prescribed course may be granted the Degree of Master of Arts with Honours.

Thesis Each candidate shall present a thesis embodying the result of his own investigation. The subject of the thesis must lie in the Faculty of Arts and in that part of his course in which the candidate obtained at least 66 per cent. if in an Honour Course, or Grade A rank if in the General Course, in each of the Third and Fourth Years of his course.

Each candidate must submit to the committee appointed to supervise his work, through the Registrar, an outline of his proposed thesis, not later than January 2nd.

A typewritten or printed copy of the completed thesis, bound in the form approved by the Librarian, must be in the hands of the Registrar not later than May 1st, and must be accompanied by the fee of **twenty dollars, ten dollars** of which will be returned to the candidate if unsuccessful.

Upon being approved the thesis shall become the property of the University.

THE LL.B. DEGREE

The Degree of Bachelor of Laws will be conferred on candidates who present the following academic standing, and pay the fees pertaining to the course:

(a) An Honour Degree in the department of Economic and Political Science from the University of Western Ontario or some other acceptable university or college.

(b) A certificate of graduation from Osgoode Hall and of admission to the practice of law in the Province of Ontario or equivalent certificates.

(c) Examinations taken on a course of reading in the following: Domestic Relations, Medical Jurisprudence, Theory of Obligations, Contracts.

(d) An approved thesis, on an assigned subject.

A typewritten or printed copy of the completed thesis, bound in the form approved by the Librarian, must be in the hands of the Registrar not later than May 1st.

Upon being approved the thesis shall become the property of the University.

MEDALS, SCHOLARSHIPS AND PRIZES

I. Undergraduate

UNIVERSITY

University Gold Medals for competition in the final year of the Honour Courses offered by University College of Arts, as follows:

Applied Biology.
Botany.
Chemistry.
Economic and Political Science.
English.
French.
General Science.
Geology.
German.
Greek.
History.
Latin.
Physics.
Spanish.
Zoology.

U. A. Buchner Gold Medal—Fourth Year Honour Mathematics.

Governor-General's Medal—Fourth Year General Course.

Typographical Union Medal—Second Year English Composition.

UNIVERSITY COLLEGE

Scholarships—Seventy-five Dollars each for the following:

FIRST YEAR HONOUR COURSES—

Department of:

Classics.
English and French.
English and German or Spanish.
French and German or Spanish.
Mathematics and Physics.
Romance Languages.
Science.

SECOND YEAR HONOUR COURSES—

Department of Biology.
Chemistry.
Classics.
English and French.
English and German or Spanish.
French and German or Spanish.
Geology.
Romance Languages.
General Science, including B.A., M.D.

THIRD YEAR HONOUR COURSES—

Department of Biology.
Chemistry.
English and French.
English and German or Spanish.
French and German or Spanish.
Geology.
Mathematics.
Romance Languages.
General Science, including B.A., M.D.

Blake Scholarship, No. 1—Seventy-five dollars; Honour Economic and Political Science, Second Year.

Blake Scholarship, No. 2—Seventy-five dollars; Honour Economic and Political Science, Third Year.

Board of Governors' Scholarship—Fifty dollars; General Proficiency, First Year.

Edward T. Fox Scholarship—Seventy-five dollars; Honour Classics, Third Year.

I.O.D.E. Municipal Chapter Scholarship—Seventy-five dollars; for Third Year Honour Biology student who proposes to elect the Applied Biology Option in his fourth year.

Jewell Scholarship—Fifty dollars; General Proficiency, Second Year.

Khaki University Scholarship—Seventy-five dollars for the highest average obtained by an ex-service man in any year of any course in University College of Arts.

John Gordon McIntosh Scholarship, No. 1—Seventy-five dollars; Honour Mathematics and Physics, Second Year.

John Gordon McIntosh Scholarship, No. 2—Seventy-five dollars: Honour Physics, Third Year.

W. J. Roche Scholarship—Fifty dollars; General Proficiency, Third Year.

Wyatt Scholarship, No. 1—Seventy-five dollars; First Year Honour English and History.

Wyatt Scholarship, No. 2—Seventy-five dollars; Second Year Honour English and History.

Wyatt Scholarship, No. 3—Seventy-five dollars; Third Year Honour English and History.

W. W. Tamblyn Prize—Ten dollars; First Year Public Speaking (English 11).

Saunders Prize—A prize in books (the gift of C. E. Saunders, LL.D., of Ottawa) will be awarded annually in May to the student submitting the best original essay, short story or sketch in French. Information concerning the conditions of the competition may be obtained from the Registrar.

Sir Wilfrid Laurier Memorial Scholarships—The gift of the Women's Liberal Association of Ontario; two scholarships, one elementary and one advanced, $50.00 each; awarded annually for proficiency in French Conversation; open only to Canadian born English-speaking students, sons or daughters of naturalized British subjects, not of French parentage.

Alumnae Association Prize—Ten dollars; Third Year Canadian History (History 31).

Prizes— Ten dollars each in:
History 45, 46.
English 30.
French 30.
Philosophy 30.
English 20.
Latin 20.
French 20.
English 10.
Latin 10.
Mathematics 10, 12.
Botany 10.
Chemistry 11.
Physics 10.
Zoology 10.

Except in the case of fourth year awards, these Scholarships and Prizes will be paid only to students who are in actual attendance and carrying a full year's work in the University during the year following the award.

URSULINE COLLEGE

Ursuline College of Arts offers Scholarships of the value of $150.00 each in all the years throughout the undergraduate course.

WATERLOO COLLEGE

Potter Scholarship—General Proficiency, Second Year, Fifty Dollars.

II. Graduate

Daughters of the Empire Overseas Scholarship.

As part of their War Memorial the Imperial Order Daughters of the Empire offer in each province in Canada a scholarship for post-graduate study in Britain. It will next be awarded to an Ontario candidate in 1932, for study during the academic year 1932-33. The value of the scholarship is $1,600, for one year.

These scholarships are subject to the following conditions:

1. Candidates may be men or women. They must be British subjects, with at least five years' residence in Canada, and unmarried. Except in the case of a returned soldier, sailor or airman, they must have passed their 19th but not their 27th birthday in October of the year in which they begin their work in Britain. In the case of a returned man, he must not have passed his 33rd birthday in October of the year in which he begins his work in Britain. Each candidate must either hold a degree from a University or College in the Province in which he or she is making application, or be in his or her final year in a course proceeding to a degree.

2. In each Province a committee of selection will award the scholarship. Other things being equal, preference will be given to a returned man, his sister, son or daughter. The Committee will consider not only the academic record of the candidate, but his or her character, physical fitness and promise.

3. Applications for this scholarship should be sent, before October 6th, 1931, to the Provincial Educational Secretary, I.O.D.E., Y.W.C.A. Building, Hamilton, Ontario, who will provide additional information about the scholarship.

University Women Federation Scholarship.

Value, one thousand dollars; the scholarship of the Federation of the University Women in Canada, available for study or research work, is open to any woman holding a degree from a Canadian university. Preference will be given to candidates who have completed at least one or two years of graduate study and have a definite research in preparation. The award is based on evidence of character and ability of the candidate and promise of success in the subject to which she is devoting herself. Applications must be received not later than February 1st, each year, by the Convener of the Scholarship Committee, Dr. Geneva Misener, University of Alberta, Edmonton, Alberta.

The letter of application should contain an account of the applicant's educational training and a statement in full of the plan of study or research she intends to pursue. This information should be accompanied by:

1. A written statement from the President or Acting President of the college or university awarding the degrees held by the applicant to the effect that her application as a suitable candidate is approved;

2. Testimonials as to her health, character, ability and scholarship;

3. Theses, papers or reports of investigations published or unpublished. The Committee cannot assume any responsibility for collecting testimonials for an applicant.

These papers, etc., and letters submitted by the applicant will be returned if postage is sent for that purpose. Confidential letters sent are kept.

The scholarship is payable in two equal instalments on July 1st and January 1st by the Treasurer of the Federation provided the successful applicant sends her address for those dates.

III. Matriculation

UNIVERSITY

I.O.D.E. War Memorial Bursary.

Founded by the Imperial Order Daughters of the Empire, as part of their War Memorial.

Awarded to the candidate in either the Junior or Honour Matriculation examinations who, in the judgment of the Committee, best meets the purpose in view in the foundation of the

Bursary. The candidate must be the son or daughter of a killed or totally disabled soldier, sailor, or member of the Air Force. The Bursary is tenable at any university in Ontario. If the holder of the Bursary chooses to attend University College of the University of Western Ontario, he or she will be granted exemption from tuition fees up to fifty dollars a year for four years.

In awarding the Bursary, the committee of selection will take into consideration the war service of the candidate's father, and the circumstances of the family, as well as the candidate's physical fitness and academic promise.

Value: Three hundred dollars a year for four years.

This Bursary will next be awarded to a candidate from Ontario in 1932. Application must be made by March 1, 1932.

Leonard Scholarship.

The income of the trust estate of $500,000 created by the late Lieut. Col. and Mrs. R. W. Leonard, St. Catharines, Ontario, will be expended in paying the college expenses of selected students at several institutions of Canada, including the University of Western Ontario, for from one to four years. The details of qualifications, and the procedure of application for these scholarships may be secured by corresponding with the trustees of the foundation, The Toronto General Trusts Corporation, Toronto, Ontario, or the Registrar of the University of Western Ontario.

Ontario Hockey Association Scholarship.

The Ontario Hockey Association has founded a scholarship to be awarded annually on the results of Pass Junior Matriculation or Honour Matriculation examinations (or a combination of the two) held by the Department of Education of Ontario the June preceding the award. The following conditions obtain:

1. The candidate must have played in O.H.A. district hockey the winter preceding the award.

2. The candidate must have complete entrance requirements for the course he intends to pursue.

3. The marks on the candidate's six best papers only will be considered; minimum average for qualifying contestant, 75 per cent.

4. If in any year no candidate reaches the minimum qualifying average no scholarship for that year will be awarded.

In making the award the following points will be considered:

1. Academic qualification.

2. Financial need (to be supported by affidavits).

3. Ontario Hockey Association rating as a clean, effective hockey player.

The award shall be made by a committee of three members who shall be the Registrar of the University, the chairman of the Scholarship Committee of the University and a nominee of the Ontario Hockey Association executive, who may or may not belong to the University. The winner of the scholarship will receive $100 in cash, one half in October, the other half in February following: he will receive also free tuition up to seventy-five dollars per year for four years; total value of the scholarship $400. Special application forms for this scholarship should be obtained from the Registrar of the University on or before May 1, each year.

The Ontario Knights of Columbus Scholarships.

The Ontario State Council of the Knights of Columbus has established four scholarships for competition among the Catholic students writing upon the Pass Matriculation examinations conducted for the University Matriculation Board by the Department of Education of Ontario. Each of these Scholarships is of the value of $100.00 per year, payable during the currency of the course chosen by the successful student not in excess of four years. Such a student may elect to attend any University in Ontario, or any other University approved by the State Executive, or Osgoode Hall, or any Catholic School of Philosophy in Ontario, provided that, where the University chosen has a Catholic college in federation or affiliation therewith, the student enrol through the said Catholic college; such student registering in the Faculty of Arts of the University of Western Ontario must enrol in either Assumption College, Sandwich, or Ursuline College, London.

Application forms for these Scholarships may be obtained from Mr. T. E. Brown, the State Secretary of the Knights of Columbus, 106 Caroline Avenue, Ottawa, with whom they must be filed on or before May 24th in the year in which the examination is to be completed, and all other communications with

respect to these Scholarships must be made to the Secretary from whom further information may be obtained on request.

UNIVERSITY COLLEGE

In order to retain the privileges of the following scholarships the winners must maintain a satisfactory degree of proficiency from year to year of their courses.

Pass Junior Matriculation Scholarships

Two scholarships of $100.00 each will be awarded for highest standing on six papers of the Pass Junior Matriculation or Middle School examinations. These papers must be written in the June examination in which the candidates complete the standing necessary for entrance to the University. The successful candidates must obtain an average of 75 per cent. or over on the six papers on which the award is made. Winners will receive free tuition up to seventy-five dollars per year for two years; total value of each scholarship, $250.00.

Honour Matriculation Scholarships

I. Three General Proficiency scholarships of $100.00 each, on five departments of Upper School work:

(a) English, Latin, Mathematics (Algebra and Geometry, only), History and one Foreign Language;

(b) English, Mathematics (Algebra, Geometry, Trigonometry), History and two Sciences;

(c) English, Mathematics (Algebra, Geometry, Trigonometry), History, a Science and a Language.

The winners will receive free tuition up to eighty-five dollars per year for four years in University College of Arts; total value of each scholarship, $440.00.

II. One General Proficiency scholarship of $75.00 on the following departments of Upper School work; English, Mathematics (Algebra and Geometry), Latin, one modern foreign language. This scholarship will be awarded after completion of registration each fall among the students registered in first year Honour Business Administration.

The winner will receive free tuition up to ninety dollars a year for three years in University College; total value of scholarship, $345.00.

III. Scholarships of $50.00 each, awarded on six Upper School papers:

(a) Classics and Mathematics (Algebra and Geometry);
(b) English, Latin and Mathematics (Algebra and Geometry);
(c) French, German or Spanish, and Mathematics (Algebra and Geometry);
(d) English, French and German or Spanish;
(e) Mathematics (Algebra, Geometry and Trigonometry), Physics and two other papers;
(f) Biology, Physics, Chemistry and two other papers;
(g) Biology, English or Mathematics (Algebra, Geometry) and two other papers;
(h) Chemistry or Physics, English or Mathematics (Algebra, Geometry) and three other papers;
(i) Classics and French or German or Spanish;
(j) Classics and two other papers.

The winners of these scholarships will receive free tuition up to eighty-five dollars per year for two years in University College of Arts; total value of each scholarship, $220.00.

IV. Scholarships of $25.00 each on single subjects of the Upper School:

(a) Latin;
(b) Greek;
(c) English;
(d) Mathematics (Algebra, Geometry, Trigonometry);
(e) French;
(f) German;
(g) Biology;
(h) Two of History, Physics, Chemistry.

The winners of these scholarships will receive one year's tuition up to eighty-five dollars in University College of Arts. Total value of each scholarship, $110.00.

The scholarships in I, II, III and IV above will be awarded on the examinations of 1931. No scholarship will be awarded on a standing less than an average of First Class Honours (75 per cent.) on all papers involved in the award of the scholarship. The successful candidates must pursue honour courses in University College, University of Western Ontario, beginning the academic session following the award.

V. Scholarships of free tuition up to $85.00 each year for two years for competition in each Collegiate Institute and High School in the Counties named in the University of Western Ontario Act. viz.: Essex, Kent, Elgin, Norfolk, Brant, Oxford, Middlesex, Lambton, Huron, Bruce, Grey, Perth, Wellington and Waterloo; and all the cities situated therein. The successful candidates must have an average of at least Second Class Honours (66 per cent.) in nine papers of the Upper School examination written in June of the year of the award. The successful candidate in each case, must pursue an Honour Course in University College, University of Western Ontario, beginning the fall following the award.

Candidates must notify University of Western Ontario by May 15th (on forms provided on request) of their intention to compete for scholarships the following June.

URSULINE COLLEGE

The Ursuline College of Arts offers the following scholarships for competition among the students of Matriculation classes:

The Bishop Fallon Partial Residence Scholarship, No. 1	$150.00
The Bishop Fallon Partial Residence Scholarship, No. 2	150.00
The Philip Pocock Partial Residence Scholarship	150.00
The Josephine Gaukler Memorial Partial Residence Scholarship	150.00
The Brescia Hall Students' Residence Scholarship	150.00

These scholarships will be awarded to the girl students who write at least six papers, obtain the highest average in the Pass or Honour Matriculation examination, and fulfill the requirements for admittance to the Faculty of Arts, as specified in the calendar of the University of Western Ontario.

Those wishing to enter this competition must make application before May 15th, and must state the centre at which they will write the Matriculation examination.

Address all communications about Ursuline College scholarships to

THE REGISTRAR,
"Brescia Hall," University Sub-Station,
London, Ont.

HURON COLLEGE

Huron College Council offers the following scholarships for competition among the students of Matriculation classes:

One Scholarship, value $150 residential or $75 non-residential.

One Scholarship, value $100 residential or $50 non-residential.

These scholarships will be awarded for the highest standing on six papers of Pass Junior Matriculation or of Honour Matriculation or a combination of Pass and Honour Matriculation. These papers must be written at the June examination in which the candidates complete the standing required for entrance to the University.

Successful candidates must enter the University as students for the Ministry of the Church of England in Canada in the September following the examinations and register through Huron College.

Those wishing to enter the competition for these scholarships must make application to the Principal of Huron College, London, Ontario, before May 15th and must state the centre at which they will write the examinations.

WATERLOO COLLEGE

Waterloo College offers the following entrance scholarships:

Fourteen scholarships awarded on Junior Matriculation standing, total value, $125 each.

Scholarships awarded on Honour Matriculation standing:

One, total value	$300
Five, total value, each	$200
One, total value	$160
Four, total value, each	$150

Candidates must notify Waterloo College by May 15th, of their intention to compete for scholarships the following June and must mention the centre at which they intend to write.

For further information and application forms apply to the Registrar of Waterloo College, Waterloo, Ontario.

PUBLIC SCHOOL INSPECTORS' CERTIFICATES

By agreement with the Minister of Education a candidate who can present a certificate from the University of Western Ontario that he has fulfilled the requirements mentioned below will be considered to have secured the academic standing necessary for a Public School Inspector's Certificate:

(1) An Honour Degree in Arts in accordance with the present agreement as prescribed for Specialist qualification (see page 64); or

(2) A Pass (or General Course) Degree in Arts with a standard of 66 per cent. at the final examination for the degree, with standing in English for each of the four years.

A candidate shall extend his course over at least four years from Junior Matriculation and he shall attend the University classes (a) for at least two complete sessions approved by the University, or (b) for at least one complete session, and two complete sessions of the Summer School, or (c) for at least six complete sessions of the Summer School or the equivalent thereof, with the supervision prescribed by the scheme agreed upon between the Department of Education and the University.

A candidate must also meet the following requirements:

(1) Hold a Permanent First Class Public School Teacher's Certificate;

(2) Have at least seven years' successful experience in the provincial schools of Ontario, five of which must have been in one or more of the public schools; years spent as a principal of a continuation school which has had connected with it a public school the work of whose teachers he supervises may be counted in this five;

(3) Pass the professional examination for Inspector's Certificate held in July of each year at the Parliament Buildings, Toronto. Details may be obtained from the Department of Education, Toronto.

HIGH SCHOOL ASSISTANTS' CERTIFICATES

I. ORDINARY CERTIFICATES

The academic standing for admission to the course leading to an Ordinary High School Assistant's Certificate is a degree in Arts from a British University, based upon courses approved by the Minister of Education.

II. SPECIALIST CERTIFICATES

Subject to the conditions specified below, the academic standing for admission to the courses leading to High School Specialist Certificates in Classics, Commerce, English and French, English and German or Spanish, French and German or Spanish, English and History, Latin with Greek, Mathematics and Physics, Science and Household Science is an Honour degree in Arts from any one of: the University of Toronto, Queen's University, McMaster University and the University of Western Ontario.

1. The courses in the departments specified above shall be the Honour Courses as defined in the Announcement of the Faculty of Arts for 1931-32, for the University of Western Ontario. After due notice from any one of the four Universities, the Minister may accept modifications of its courses for Specialist standing.

2. Honour degrees in Arts from the other British Universities on courses which are deemed to be the equivalent of those prescribed in the calendars of the four Ontario Universities may be accepted for Specialist standing.

3. The courses shall extend over at least five years from Pass Matriculation or, as may be determined under the regulations of the University concerned, over four years from Honour Matriculation in four subjects.

4. Candidates shall attend for at least two full academic years, the third and the fourth. Under the direction of the University, the rest of the course may be taken by Summer School and extramural study.

5. The standard for each year shall be that prescribed by the University for candidates taking Honour Courses with the additional provision that in the final Honour work of the department in which Specialist standing is sought, the standard shall be at least Second-Class Honours (66 per cent.).

6. The Minister shall have authority to deal with any case not covered under the above. Each University shall submit to the Minister a recommendation on any case whose merits justify special consideration.

NOTE:—Graduates in general or pass courses who wish to obtain specialist standing should consult special pamphlet to be obtained from the Registrar.

FEES

Tuition fees in full will be paid on Registration Day. If paid in two instalments, the first instalment will be payable Registration Day; the second instalment on or before the first day of the second term. All other fees, except examination fees, are payable Registration Day. Students must register and pay the fees for examination before presenting themselves for any papers.

All checks presented must be certified and made payable to "The University of Western Ontario."

The following fees are payable to the Executive Secretary—

First Registration (for all students on entering)	$ 5 00
Tuition, pass course, including examinations, one payment	75 00
Two payments per year, first $38.00, second $40.00	78 00
Tuition, honour course, including examination, one payment	85 00
Two payments per year, first $43,00, second $45.00	88 00
Tuition, Business Administration, including examination, one payment	90 00
Two payments per year, first $45.00, second $48.00	93 00
Tuition, Secretarial Science (pass course), second, third and fourth years including examination, one payment, per year	90 00
Two payments per year, first $45.00, second $48.00	93 00
Tuition, for course for Master of Arts degree, in one year	90 00
In two years, $45.00 each year	90 00
Tuition, special student, each credit, including examination	8 00
Tuition, Extension department, each credit including examination	8 00
Tuition, Summer School, each credit, including examination	8 00
Maximum	35 00
Tuition, Extramural, each credit, including examination	8 00
Maximum	35 00
Examinations, Supplemental, each paper, September or May	5 00
Maximum	15 00
LL.B. Course, each paper	15 00
Examinations, at dates other than January, May or September	15 00
Examination, establishing outside centre	5 00
Presiding Examiner's fee, etc. (at outside centre), per half day	3 00
Library Deposit fee (extramural students outside London)	5 00
Change of Faculty	5 00
Change of Registration, after one week from Registration Day–$1.00 to	5 00
Late Registration, first week (see also page 6)	2 00
Admission *ad eundem statum*	5 00
Undergraduate Certificate of Standing	3 00
Graduate detailed certificate (after the first two), each	2 00
Athletic Association, each year	10 00
Students' Administrative Assembly Fee, each year	5 00
Students' Health Insurance, each year	5 00
Caution Money (1), each year	5 00
Microscope Rental, each instrument, each year	5 00
Laboratory Fee, each Science, full course	4 00
Half course	2 00
Caution Fee (1), Physics, Chemistry, each course	5 00
Caution Fee (1), Applied Biology, Botany, Geology, Zoology Psychology, each course	2 00
Degree of B.A., (2), payable May 1st	10 00
Degree of M.A., (3), payable May 1st	20 00
Degree of B.Sc., payable May 1st	10 00
Degree of M.Sc., payable May 1st	20 00
Degree of LL.B., payable May 1st	20 00
Degree of B.D., payable May 1st	24 00

NOTE:—(1) Caution money minus deductions for breakage, etc., will be returned at end of year. (2) See page 45. (3) See page 51.

REQUIREMENTS FOR DEGREES

Explanation of Number System

First year general courses are numbered between 10 and 19; first year honour courses, between 100 and 199.

Second year general courses are numbered between 20 and 29; second year honour courses, between 200 and 299.

Third year general courses are numbered between 30 and 39; third year honour courses, between 300 and 399.

Fourth year general courses are numbered between 40 and 49; fourth year honour courses, between 400 and 499.

Graduate courses are numbered between 500 and 599.

Courses numbered between 1 and 9 are preparatory courses equivalent to matriculation work in the same subjects.

A course whose number is followed by -a is given in the first term only; followed by -b, in the second term only.

B.A. GENERAL COURSE I

The Department of Education of Ontario approves of a degree in any of the General Courses as academic qualification for an ordinary High School Assistant's Certificate.

In either the first or second year a student must secure credit for at least one first-year 3-credit Science option.

First Year

For number system, see above.

Subject	*Hours Per Week*	*Credits*
English 10	2	2
English 11	1	1
English 12	1	1
Latin 10	3	3
Library Science 10a	1	½
Mathematics 10a, 12b	3	3
Physical Training 10 or 11	2	1
Public Health and Bacteriology 10	1	1
And at least *three* credits from the following:		
French 10	3	3
German 1	3	3
German 10	3	3
Greek 1	3	3
Greek 10	3	3
Hebrew 10	3	3
Italian 100	3	3
Spanish 100	3	3
Botany 10	6	4
Chemistry 11	6	4
Physics 10	5	3
Zoology 10	6	4

Second Year

English 20	2	2
English 21	1	1
English 22	1	1
History 25	2	2
Latin 20	3	3
Physical Training 20 or 21	2	1

Subject	*Hours Per Week*	*Credits*
And any *seven* credits from the following:		
Economic and Political Science 20	3	3
French 20	3	3
German 20	3	3
Greek 20	3	3
Hebrew 20	3	3
History 20	3	3
Italian 200	3	3
Mathematics 20a, 24b	2	2
Mathematics 25a, 25b (Astronomy)	2	2
Mathematics 23b or 27b	2	1
Philosophy 20	1	1
Philosophy 21	3	2
†Religious Knowledge 20 or 29	1	1
†Religious Knowledge 21	1	1
Religious Knowledge 25	2	2
Spanish 200, 201	3	3
Botany 20a, 20b	6	4
Chemistry 22	6	3
Geology 20	4	3
Physics 20	5	3
Zoology 20 or 22	6	4
*French 10	3	3
*German 10	3	3
*Greek 10	3	3
*Hebrew 10	3	3
*Italian 100	3	3
*Spanish 100	3	3
*Botany 10	6	4
*Chemistry 11	6	4
*Physics 10	5	3
*Zoology 10	6	4
Third Year		
English 30	3	3
History 31	2	2
Philosophy 30	2	2
Philosophy 31	1	1
And at least *seven* credits from the following:		
Economic and Political Science 30	2	2
English 31 or 33 or 34	2	2
French 30	3	3
German 30	3	3
Greek 30	3	3
Hebrew 30	3	3
**History 30 (200)	3	3
Latin 30	3	3
Philosophy 332a, 333b	2	2
Philosophy 334b, 337a	2	2
Philosophy 335	2	2
Physical Training 30-40 or 31-41	2	1
†Religious Knowledge 30	1	1
†Religious Knowledge 31 or 39	2	2

*All courses so indicated are options open only to those who have not already received credit for them.

†Offered by Assumption, Ursuline and Waterloo Colleges only.

**May also be offered as an option for History 31 and Philosophy 31.

Subject	*Hours Per Week*	*Credits*
Religious Knowledge 35	2	2
Spanish 300, 301	3	3
Applied Biology 30	6	4
Botany 30a, 30b	6	4
Chemistry 33	5	3
Geology 30	3	3
Physics 30	3	1
Zoology 32 or 33	6	4
Zoology 34	2	2
*Economic and Political Science 20	3	3
*French 20	3	3
*German 20	3	3
*Greek 20	3	3
*Hebrew 20	3	3
*History 20	3	3
*Italian 200	3	3
*Mathematics 20a, 24b	2	2
*Mathematics 25a, 25b	2	2
*Mathematics 23b or 27b	2	1
*Philosophy 20	1	1
*Philosophy 21	3	2
*†Religious Knowledge 20 or 29	1	1
*†Religious Knowledge 21	1	1
*Religious Knowledge 25	2	2
*Spanish 200, 201	3	3
*Botany 20a, 20b	6	4
*Chemistry 22	6	3
*Geology 20	4	3
*Physics 20	5	3
*Zoology 20 or 22	6	4
Fourth Year		
English 40, 41	3	3
History 43a	3	1½
History 45a, 46b	3	3
And at least *eight* credits from the following:		
Economic and Political Science 40	2	2
Economic and Political Science 48 (408)	2	1
French 40	3	3
German 40	3	3
Greek 40	3	3
Hebrew 40	3	3
**History 40 (300)	3	3
History 44	2	2
Latin 40	3	3
Philosophy 40	2	2
Philosophy 441	4	2
Philosophy 443	6	4
‡Philosophy 45 (Metaphysics)	1	1
Physical Training 30-40 or 31-41	2	1
†Religious Knowledge 40 or 49	1	1

*All courses so indicated are options open only to those who have not already received credit for them.

†Offered by Assumption, Ursuline and Waterloo Colleges only.

‡Available only at Ursuline College.

**Must be substituted for History 45a, 46b by those who have credit for History 30 (200).

Subject	*Hours Per Week*	*Credits*
†Religious Knowledge 41 or 47 or 48	2	2
Spanish 400, 401	3	3
Applied Biology 42	6	4
Botany 40	6	4
Chemistry 404	5	3
Geology 40	6	4
*Economic and Political Science 30	2	2
*English 31 or 33 or 34	2	2
*French 30	3	3
*German 30	3	3
*Greek 30	3	3
*Hebrew 30	3	3
*Latin 30	3	3
*Philosophy 332a, 333b	2	2
*Philosophy 335	2	2
*†Religious Knowledge 30	1	1
*†Religious Knowledge 31	2	2
*Religious Knowledge 35	2	2
*Spanish 300, 301	3	3
*Applied Biology 30	6	4
*Botany 30a, 30b	6	4
*Chemistry 33	5	3
*Geology 30	3	3
*Physics 30	3	1
*Zoology 32 or 33	6	4
*Zoology 34	2	2

B.A. GENERAL COURSE II

Requirements for Admission—Complete Pass Junior Matriculation and a First-Class Certificate.

Candidates who present a First-Class Certificate (or the equivalent) obtained at the examinations set by the Department of Education of Ontario will be admitted to the degree of Bachelor of Arts (General Course) on completing the following schedule:

First Year

English 20, 11, 22	4	4
History 25	2	2
Latin 10 or 20	3	3
Library Science 10a	1	½
Mathematics 10a, 12b (unless previously taken)	3	3
Physical Training 10 or 11	2	1
Public Health and Bacteriology 10	1	1
Botany 10, or Zoology 10, or Physics 10, or Chemistry 11	6	4

Second Year

English 30, 21	4	4
‡History 31	2	2
Philosophy 30	2	2
‡Philosophy 31	1	1
Physical Training 20 or 21	2	1
Six Credits from Second or Third Year, in which must be Latin 20 if not previously taken	6	6

*All courses so indicated are options open only to those who have not already received credit for them.

†Offered by Assumption, Ursuline and Waterloo Colleges only.

‡For History 30 and 40, see foot note pages 67, 68.

Third Year

Subject	*Hours Per Week*	*Credits*
English 40, 41	3	3
History 43a	3	1½
*History 45a, 46b	3	3
Eight Credits from the Options of the Third or Fourth Year	8	8

B.A. GENERAL COURSE III

Secretarial Science

Requirements for Admission—Complete Pass Junior Matriculation.

First Year

English 10, 11, 12	4	4
Latin 10	3	3
Library Science 10a	1	½
Mathematics 10a, 12b	3	3
Physical Training 10	2	1
Public Health and Bacteriology 10	1	1
One of:		
French 10	3	3
German 10	3	3
Spanish 100	3	3

Those who have passed the above first year or who present certificates of standing in Upper School English, Latin, Mathematics and French will be permitted to undertake the work of the second year, with the understanding that Honour Matriculants must make up all deficiencies of the first year before beginning any work of the third year.

Second Year

Business Administration 27	1	1
Economic and Political Science 20	3	3
English 20, 21, 22	4	4
Physical Training 20	2	1
Secretarial Science 25b	1	½
Secretarial Science 28, 29	12	6
One of:		
French 20	3	3
German 20	3	3
Spanish 200, 201	3	3

Third Year

Business Administration 30	2	2
English 30	3	3
English 32	1	1
Library Science 31	2	2
Secretarial Science 35	6	3
Secretarial Science 38, 39	12	6
One of:		
French 30	3	3
German 30	3	3
Spanish 300, 301	3	3

*For History 30 and 40, see foot note pages 67, 68.

Fourth Year

Subject	*Hours Per Week*	*Credits*
English 40, 41	3	3
History 31	2	2
Secretarial Science 45	15	7
Secretarial Science 48, 49	10	5
One of:		
French 40	3	3
German 40	3	3
Spanish 400, 401	3	3

B.A. GENERAL COURSE IV.

Theological Options

Requirements for Admission—Complete Pass Junior Matriculation.

The following is the prescribed course accepted by the University for students registered with recognized Theological bodies who wish to take advantage of the options offered by Huron College.

A student who presents Honour Matriculation in English, Mathematics, Latin and Greek may reasonably expect to complete this course in three years.

A student who presents Matriculation in Greek will add Hebrew 20 in the second year.

Students in this course may elect, instead of English 11 and 21, Junior and Senior Homiletics at Huron College.

First Year

English 10, 11, 12	4	4
Greek 1	3	3
Hebrew 10	3	3
Latin 10	3	3
Library Science 10a	1	½
Mathematics 10a, 12b	3	3
Public Health and Bacteriology 10	1	1
Physical Training 11	2	1

Second Year

Apologetics 30, or 31 and 32	2	2
Economic and Political Science 20	3	3
English 20, 21, 22	4	4
Greek 25	3	3
History 25	2	2
Philosophy 21	3	2
Physical Training 21	2	1

Third Year

Biblical Literature 30, 31	2	1
Church History 30	2	2
Economic and Political Science 30	2	2
English 30	3	3
Greek 35	3	3
History 30, 31	5	5
Philosophy 20	1	1

Subject	*Hours Per Week*	*Credits*
Fourth Year		
Biblical Literature 40, 41	2	1
Church History 40 or 41 or 42	2	2
Economic and Political Science 302a, 400, 401a, 408	7	5½
English 40	2	2
Greek 45	3	3
History 40	3	3

BACHELOR OF SCIENCE (IN NURSING) COURSE

Requirements for Admission—Complete Pass Junior Matriculation.

The length of this course, if taken in the order below, will be five calendar years, but if the two years of Arts work are taken first, the length will be six years. The course is made up of three parts as follows:

(a) Twenty-eight consecutive months in a hospital where there shall be a course that is in all its details approved by the Committee of which the Dean of the Faculty of Public Health is Convener;

(b) Two years in the Faculty of Arts in which the following shall be taken:

First Year		
Economic and Political Science 20	3	3
English 10, 11, 12	4	4
History 25	2	2
Library Science 10a	1	½
One Modern Foreign Language	3	3
Physical Training 10	2	1
One of:		
Mathematics 10a, 12b	3	3
Latin 10	3	3
Second Year		
English 20, 21, 22	4	4
History 31	2	2
History 43a	3	1½
History 45a, 46b	3	3
Philosophy 21	3	2
Philosophy 31	1	1
Foreign Language of First Year continued	3	3

(c) One year of eight months to be spent in a course for Public Health Nurses or Hospital Administration or Hospital Instruction. (See Announcement of Faculty of Public Health of the University of Western Ontario.)

Note—The four months between the two years of (b) and the four months between the completion of (b) and the beginning of (c) shall be spent in Hospital or Field Work, for which the approval of the Dean of the Faculty of Public Health of this University must have been previously secured. If a student does the work of the Faculty of Arts first, she must spend three consecutive years in hospital training.

No conditions can be carried from Part (a) to Part (b) or from Part (b) to Part (c) of this course.

THE B.A. HONOUR COURSES

Department of Biology

Requirements for Admission: Complete Pass Junior Matriculation and Honour Matriculation in English, Mathematics (Algebra, Geometry and Trigonometry); one of French or German; one of Biology or Physics or Chemistry.

This course satisfies the academic requirements of the Science Specialist Certificate of the Department of Education of Ontario. For conditions, see page 64.

Subject	*Hours Per Week*	*Credits*
First Year		
French 1 or German 1 (language not previously taken)	3	3
Library Science 10a	1	½
Mathematics 20a, 24b	2	2
Physical Training 10 or 11	2	1
Botany 100 (one term)	6	2
Chemistry 101	6	4
Geology 100	4	3
Physics 101a, 102b	5	3
Zoology 100 (one term)	6	2
Second Year		
English 20, 11, 22	4	4
French 10 or German 15 (language chosen in first year)	3	3
Physical Training 20 or 21	2	1
Botany 200 (one term)	8	2½
Chemistry 202	6	3
Physics 201, 202	9	5½
Zoology 200 (one term)	8	2½
Third Year		
Economics 20	3	3
French 35	1	½
German 35	1	½
Botany 300 (one term)	8	2½
Botany 301 (one term)	8	2½
Chemistry 303	6	4
Zoology 300	8	5
Zoology 400	2	2

Fourth Year

Any one of the four following options may be taken:

1. GENERAL BIOLOGY

French 45	1	½
German 45	1	½
History 45, 46	3	3
Botany 401 (one term)	8	2½
Botany 402 (one term)	8	2½
Botany 403 (one term)	8	2½
Zoology 401 (one term)	8	2
Zoology 402 (one term))	8	2½
Zoology 403 (one term)	8	2
Zoology 404 (one term)	8	2

2. BOTANY

Subject	*Hours Per Week*	*Credits*
French 45	1	½
German 45	1	½
History 45, 46	3	3
Botany 401 (one term)	8	2½
Botany 402	8	2½
Botany 403	8	2½
Botany 404	8	2½
Botany 406	8	2½

3. ZOOLOGY

French 45	1	½
German 45	1	½
History 45, 46	3	3
Zoology 401	8	4
Zoology 403 (one term)	8	2
Zoology 404 (one term)	8	2
Zoology 402 or 406	8	2½
Zoology 408	4	2

4. APPLIED BIOLOGY

French 45	1	½
German 45	1	½
History 45, 46	3	3
Economics 302a	2	1
Botany 402	8	2½
Botany 404	8	2½
Applied Biology 400	8	2½
Applied Biology 402	6	2
Applied Biology 404	6	2
Applied Biology 408	6	2

Department of Business Administration

Requirements for Admission: First year of the General Arts Course, or complete Pass Junior Matriculation and Honour Matriculation in English, Mathematics (Algebra and Geometry), Latin and one modern foreign language.

First Year

English 20, 11, 22	4	4
Economic and Political Science 102b	2	1
Economic and Political Science 200	3	3
Business Administration 107	2	2
Library Science 10a	1	½
One of:		
French 20	3	3
German 20	3	3
Spanish 200, 201	3	3
One of:		
Botany 10	6	4
Chemistry 11	6	4
Geology 20	4	3
Physics 10	5	3
Zoology 10	6	4
Physical Training 11	2	1

Second Year

Subject	*Hours Per Week*	*Credits*
English 21, 32	2	2
Physical Training 21	2	1
Economic and Political Science 300	2	2
Economic and Political Science 301a	2	1
Economic and Political Science 303b	2	1
Business Administration 200	3	3
Business Administration 201	3	3
Business Administration 205	3	3
One of:		
English 30 or 35	3	3
French 30	3	3
German 30	3	3
Mathematics 20a, 24b, 27b	3	3
Philosophy 30, 31	3	3
Spanish 300, 301	3	3

Third Year

History 31 or 44	2	2
Business Administration 300	3	3
Business Administration 302	2	2
Business Administration 305	3	3
Business Administration 309b	3	1½
Economic and Political Science 400	2	2
Any *three* credit option from General Course in Arts for which candidate has prerequisites	3	3

Fourth Year

Business Administration 400	3	3
Business Administration 401	3	3
Business Administration 402	2	2
*Business Administration 403	2	2
Business Administration 409	3	3
Business Administration 491	..	3

Note—Business students desirous of entering the Life Insurance field may, on consultation with the Department Head, take insurance options in their final year.

*This course is not prescribed but is available for the student who wishes to take insurance options.

Apply to Registrar for Special Business Administration Announcement.

Department of Business Administration and Secretarial Science

Requirements for Admission: First Year General Course in Arts or complete Pass Junior Matriculation and Honour Matriculation in English, Mathematics (Algebra, Geometry and Trigonometry), Latin and one modern foreign language.

This course may be elected by both men and women.

This course, with the addition of Penmanship, satisfies the academic requirements for the Commercial Specialist certificate of the Department of Education of Ontario. For conditions, see p. 64.

First Year

Subject	*Hours Per Week*	*Credits*
English, 20, 11, 22	4	4
Library Science 10a	1	½
Physical Training 10 or 11	2	1
Business Administration 107	2	2
Economic and Political Science 101a	2	1
Economic and Political Science 102b	2	1
Economic and Political Science 200	3	3
Economic and Political Science 209b	3	1½
One of:		
French 20	3	3
German 20	3	3
Spanish 200, 201	3	3
One of:		
Botany 10	6	4
Chemistry 11	6	4
Physics 10	5	3
Zoology 10	6	4

Second Year

English 21, 32	2	2
English 30 or 35	3	3
Mathematics 20a, 27b	2	2
Physical Training 20 or 21	2	1
Business Administration 30 (practical only)	2	2
Business Administration 39	2	2
Business Administration 200	3	3
Business Administration 201	3	3
Economic and Political Science 300	2	2
Economic and Political Science 303b	2	1

Third Year

History 25	2	2
History 31	2	2
Library Science 31	2	2
Business Administration 300	3	3
Business Administration 309a, 309b	3	3
Secretarial Science 25b	1	½
Secretarial Science 28, 29	12	6
Secretarial Science 35 (lectures and theory only)	1	1

Fourth Year

Business Administration 400	3	3
Economic and Political Science 40 or English 40	2	2
Secretarial Science 38, 39	12	6
Secretarial Science 45 (theory and practice)	15	7

Department of Chemistry

Requirements for Admission: Complete Pass Junior Matriculation with Honour Matriculation in English and Mathematics (Algebra, Geometry, Trigonometry); one of French or German; one of Chemistry or Physics or Biology.

This course satisfies the academic requirements for the Science Specialist Certificate of the Department of Education of Ontario. For conditions see page 64.

First Year

Subject	*Hours Per Week*	*Credits*
French 1 or German 1 (language not previously taken)	3	3
Library Science 10a	1	½
Mathematics 20a, 24b	2	2
Physical Training 10 or 11	2	1
Botany 100	6	2
Chemistry 101	8	4
Geology 100	4	3
Physics 101a, 102b	5	3
Zoology 100	6	2

Second Year

English 20, 11, 22	4	4
French 10 or German 15 (language chosen in first year)	3	3
Physical Training 20 or 21	2	1
Botany 200	8	2½
Chemistry 221	4	2
Chemistry 222	10	5
Zoology 200	8	2½

Students may complete this course by taking either the Chemistry Option or the Chemistry and Business Administration Option outlined below. The Chemistry Option alone, however, satisfies the requirements of the Department of Education for Specialist Certificate in Science.

Chemistry Option

Third Year

French 35, German 35	2	1
History 45, 46	3	3
Chemistry 303	6	4
Chemistry 334	8	5
Physics 201, 202	9	5½

Fourth Year

French 45, German 45	2	1
Chemistry 443	5	3
Chemistry 444 or 306	6	4
Chemistry 445	9	5
Chemistry 447a	6	2
Chemistry 448	1	1
Chemistry 449b	6	2

Chemistry and Business Option

Third Year

Business Administration 107	2	2
Economic and Political Science 20	3	3
Business Administration 205	3	3
French 35, German 35	2	1
Chemistry 303	6	4
Chemistry 334	8	5
Geology 301	3	3

Fourth Year

Subject	*Hours Per Week*	*Credits*
French 45, German 45	2	1
Business Administration 200	3	3
Business Administration 201	3	3
Business Administration 305	3	3
Business Administration 309a, 309b	3	3
Chemistry 445	9	5
Chemistry 448	1	1

Department of Chemistry and Physics

Requirements for Admission; Complete Pass Junior Matriculation with Honour Matriculation in English and Mathematics (Algebra, Geometry, Trigonometry); one of French or German; one of Chemistry or Physics or Biology.

First Year

English 11	1	1
French 1 or German 1 (language not previously taken)	3	3
Library Science 10a	1	½
Physical Training 10 or 11	2	1
Mathematics 100a	3	1½
Mathematics 102a	3	1½
Mathematics 104b	3	1½
Mathematics 111b	2	1
Chemistry 101	8	4
Physics 101a, 102b	5	3
Physics 110	3	1

Second Year

English 20, 22	3	3
French 10 or German 15 (language chosen in first year)	3	3
Physical Training 20 or 21	2	1
Mathematics 204	3	3
Chemistry 222	10	5
Physics 201, 202	9	5½

Third Year

French 35, German 35	2	1
Mathematics 304	2	2
Chemistry 303	6	4
Chemistry 334	5	4
Physics 301	5	4
Physics 302a	2	1
Physics 303	5	3

Fourth Year

French 45, German 45	2	1
History 45a, 46b	3	3
Chemistry 443 or 444	6	4
Chemistry 448	1	1
Physics 401	2	2
Physics 402	2	2
Physics 408	1	1
Either Chemistry 445 or Physics 404	6	2

Department of Classics

Requirements for Admission: Complete Pass Junior Matriculation, with Honour Matriculation in Latin, Greek, English and Mathematics (Algebra and Geometry).

This course satisfies the academic requirements for the Classics Specialist Certificate of the Department of Education of Ontario. For conditions, see page 64.

First Year

Subject	*Hours Per Week*	*Credits*
Botany 10 or Zoology 10	6	4
English 11	1	1
French 10 or German 10 or Hebrew 10	3	3
Library Science 10a	1	½
Physical Training 10 or 11	2	1
Latin 110	4	4
Greek 110	4	4

Second Year

English 20, 21, 22	4	4
French 20 or German 20 or Hebrew 20	3	3
Physical Training 20 or 21	2	1
Latin 202b, 220, 225, 230	6	5
Greek 202a, 225, 230	5	4

Third Year

English 30	3	3
Philosophy 30	2	2
Latin 330, 335, 340	5	5
Greek 330, 331, 335, 340	6	6

Fourth Year

History 45a, 46b	3	3
Latin 440, 441, 442, 445	6	6
Greek 440, 441, 442, 445	6	6

Department of Latin with Greek (minor honours)

See page 86.

Department of Economic and Political Science

Requirements for Admission: Complete Pass Junior Matriculation.

A student who presents at entrance Honour Matriculation in English Mathematics (Algebra and Geometry), Latin and either French or German may reasonably expect to complete this course in three years.

First Year

English 10, 11, 12	4	4
French 10 or German 10	3	3
Latin 10	3	3
Library Science, 10a	1	½
Mathematics 10a, 12b	3	3
Physical Training 10 or 11	2	1
Public Health 10	1	1
Economic and Political Science 101, 102	2	2

Second Year

Subject	*Hours Per Week*	*Credits*
English 20, 21, 22	4	4
French 20 or German 20	3	3
History 25	2	2
Philosophy 21	3	2
Physical Training 20 or 21	2	1
Economic and Political Science 200	3	3
Economic and Political Science 209b	2	1

Third Year

History 31	2	2
Philosophy 30	2	2
Business Administration 306	2	2
Economic and Political Science 300, 301, 302, 303, 304, 305a	11	8½
Three credits from:		
English 30 or 35	3	3
French 30	3	3
German 30	3	3

Fourth Year

History 44, 45, 46	5	5
Economic and Political Science 400, 401, 405, 408	7	7
Three credits from:		
English 40, 41, or 35 (if not previously taken)	3	3
French 40	3	3
German 40	3	3
History 402, 403a	3	3

NOTE: In the third year two optional credits will be allowed for Government and Law 305, 306, 307, 308. In the fourth year two optional credits will be allowed for Government and Law 405, 406, 407, 408. Philosophy 40 may be taken to complete the six optional credits of the third and fourth years.

Department of English and History

Requirements for Admission: Complete Pass Junior Matriculation and Honour Matriculation in English, Mathematics (Algebra and Geometry only), and any two of French, German, Greek, Latin, Spanish.

This course satisfies the academic requirements in English and History for the Specialist Certificate of the Department of Education of Ontario, except that for this purpose Hebrew may not be chosen as one of the minor honour subjects. For conditions, see page 64.

First Year

Botany 10 or Zoology 10 or Physics 10 or Chemistry 11	6	4
Library Science 10a	1	½
Physical Training 10 or 11	2	1
English 100, 102	3	3
History 105	3	2
Any *two* of:		
French 100	4	4
German 100, 110 or Spanish 100	4	4
Greek 110	4	4
Hebrew 100	4	4
Latin 110	4	4

Second Year

Subject	*Hours Per Week*	*Credits*
Physical Training 20 or 21	2	1
English 200, 202, 220	5	5
History 200	4	3
Any *two* of:		
French 200, 201	4	4
German, 200, 201, 210 or Spanish 200, 201, 202	4	4
Greek 202a, 225, 230	5	4
Hebrew 200	4	4
Latin 202b, 225, 230	5	4

Third Year

Economic and Political Science 20	3	3
English 300, 301a, 301b, 341, 343	7	7
History 300	4	3
History 301	3	2
Any *one* of:		
French 300	3	3
German 300 or 310, 301; or Spanish 300, 301	3	3
Greek 330, 335	3	3
Hebrew 300	4	4
Latin 330, 335	3	3

Fourth Year

English 400	2	2
English 401	2	2
English 402	2	2
English 403	2	1
English 404	2	1
History 400	3	3
History 402	3	1½
History 403	4	1½
History 404	3	2

Department of English and French

Requirements for Admission: Complete Pass Junior Matriculation and Honour Matriculation in English, Mathematics (Algebra and Geometry only), French and either German or Latin. Candidates are recommended to take all three languages in Upper School.

This course is accepted by the Department of Education of Ontario as academic qualification for the Specialist Certificate in English and French. For conditions, see page 64.

First Year

Botany 10 or Zoology 10 or Physics 10 or Chemistry 11	6	4
Latin 10	3	3
Library Science 10a	1	½
Physical Training 10 or 11	2	1
English 100, 102	3	3
French 100	4	4
German 100, 110 or Spanish 100	4	4

Second Year

Subject	*Hours Per Week*	*Credits*
History 30	3	3
Latin 20	3	3
Physical Training 20 or 21	2	1
English 200, 202, 220	5	5
French 200, 201	4	4
German 200, 201, 210 or Spanish 200, 201, 202	4	4

Third Year

History 40	3	3
English 300, 301a, 301b, 341, 343	7	7
French 300, 301, 302	6	6

Fourth Year

History 31	2	2
English 400, 401, 402, 403, 404	8	8
French 400, 401, 402	6	6

Department of English and German or Spanish

Requirements for Admission: Complete Pass Junior Matriculation and Honour Matriculation in English, Mathematics (Algebra and Geometry only), French, German or Latin. Candidates are recommended to take all three languages in Upper School.

This course is accepted by the Department of Education of Ontario as academic qualification for a Specialist Certificate in English and German or Spanish. For conditions, see page 64.

First Year

Botany 10 or Zoology 10 or Physics 10 or Chemistry 11	6	4
Latin 10	3	3
Library Science 10a	1	½
Physical Training 10 or 11	2	1
English 100, 102	3	3
French 100	4	4
German 100, 110 or Spanish 100	4	4

Second Year

History 30	3	3
Latin 20	3	3
Physical Training 20 or 21	2	1
English 200, 202, 220	5	5
French 200, 201	4	4
German 200, 201, 210 or Spanish 200, 201, 202	4	4

Third Year

History 40	3	3
English 300, 301a, 301b, 341, 343	7	7
German 300, 301, 302, 310 or Spanish 300, 301, 302	5	5

Fourth Year

Subject	*Hours Per Week*	*Credits*
History 31	2	2
English 400, 401, 402, 403, 404	8	8
German 400, 401, 402 or Spanish 400, 401, 402, 403	7	7

Department of English and Latin

Requirements for Admission: Complete Pass Junior Matriculation and Honour Matriculation in English, Mathematics (Algebra and Geometry only), Latin and either French or German.

First Year

Botany 10 or Zoology 10 or Physics 10 or Chemistry 11	6	4
Greek 1	3	3
Library Science 10a	1	½
Physical Training 10 or 11	2	1
French 100 or German 100, 110	4	4
English 100, 102	3	3
Latin 110	4	4

Second Year

Greek 10	3	3
Physical Training 20 or 21	2	1
French 200, 201 or German 200, 201, 210	4	4
English 200 202, 220	5	5
Latin 202b, 220, 225, 230	6	5

Third Year

Greek 20	3	3
Philosophy 30	2	2
English 300, 301a, 301b, 341, 343	7	7
Latin 330, 335, 340	5	5

Fourth Year

History 45a, 46b	3	3
English 400, 401, 402, 403, 404	8	8
Latin 440, 441, 442, 445	6	6

Department of French and German or Spanish

Requirements for Admission: Complete Pass Junior Matriculation and Honour Matriculation in English, Mathematics (Algebra and Geometry only), French and German or Latin. Candidates are recommended to take all three languages in Upper School.

This course satisfies the academic requirements for the French and German or Spanish Specialist Certificate of the Department of Education of Ontario. For conditions, see page 64.

First Year

Botany 10 or Zoology 10 or Physics 10 or Chemistry 11	6	4
English 20, 11, 22	4	4
Latin 10	3	3
Library Science 10a	1	½
Physical Training 10 or 11	2	1
French 100	4	4
German 100, 110 or Spanish 100	4	4

Second Year

Subject	*Hours Per Week*	*Credits*
English 30, 21	4	4
History 30	3	3
Latin 20	3	3
Physical Training 20 or 21	2	1
French 200, 201	4	4
German 200, 201, 210 or Spanish 200, 201, 202	4	4

Third Year

English 40, 41	3	3
History 40	3	3
French 300, 301, 302	6	6
German 300, 301, 302, 310 or Spanish 300, 301, 302	5	5

Fourth Year

History 31	2	2
French 400, 401, 402	7	7
German 400, 401, 402 or Spanish 400, 401, 402, 403	7	7

Department of French and Latin

Requirements for Admission: Complete Pass Junior Matriculation and Honour Matriculation in English, Mathematics (Algebra and Geometry only), French and Latin.

First Year

Botany 10 or Zoology 10 or Physics 10 or Chemistry 11	6	4
English 20, 11, 22	4	4
German 1 or 10 or Greek 1 or 10	3	3
Library Science 10a	1	½
Physical Training 10 or 11	2	1
Latin 110	4	4
French 100	4	4

Second Year

English 21	1	1
German 10 or 20 or Greek 10 or 20	3	3
History 30	3	3
Physical Training 20 or 21	2	1
French 200, 201	4	4
Latin 202b, 220, 225, 230	6	5

Third Year

German 20 or 30 or Greek 20 or 30	3	3
History 40	3	3
French 300, 301, 302	6	6
Latin 330, 335, 340	5	5

Fourth Year

English 30	3	3
French 400, 401, 402	6	6
Latin 440, 441, 442, 445	6	6

Department of Geology

Requirements for Admission: Complete Pass Junior Matriculation and Honour Matriculation in English and Mathematics (Algebra, Geometry and Trigonometry); either French or German; Physics or Chemistry or Botany and Zoology.

This course satisfies the academic requirements for the Science Specialist Certificate of the Department of Education of Ontario. For conditions, see page 64.

First Year

Subject	*Hours Per Week*	*Credits*
French 1 or German 1 (language not previously taken)	3	3
Library Science 10a	1	½
Mathematics 20a, 24b	2	2
Physical Training 10 or 11	2	1
Botany 100	6	2
Chemistry 101	6	4
Geology 100	4	3
Physics 101a, 102b	5	3
Zoology 100	6	2

Second Year

English 20, 11, 22	4	4
French 10 or German 15 (language chosen first year)	3	3
Physical Training 20 or 21	2	1
Botany 200, Zoology 200	8	5
Geology 200	4	3
Physics 201, 202	9	5½

Third Year

French 35, German 35	2	1
Chemistry 202	5	3
Geology 300	7	5
Geology 301	3	3
Zoology 300	8	5

Fourth Year

French 45, German 45	2	1
History 45a, 46b	3	3
Geology 400, 401, 402, 403	16	12
Zoology 400	2	2

Department of Geology and Business

Requirements for Admission: Complete Pass Junior Matriculation, with Honour Matriculation in English, Mathematics (Algebra, Geometry, Trigonometry), French or German; Chemistry or Physics or Biology.

First Year

French 10 or German 1	3	3
Library Science 10a	1	½
Mathematics 20a, 24b	2	2
Physical Training 10 or 11	2	1
Botany 100	6	2
Chemistry 101	6	4

Subject	*Hours Per Week*	*Credits*
Geology 100	4	3
Physics 101a, 102b	5	3
Zoology 100	6	2
Second Year		
English 20, 11, 22	4	4
French 20 or German 15	3	3
Physical Training 20 or 21	2	1
Botany 200	8	2½
Geology 200	4	3
Physics 201, 202	9	5½
Zoology 200	8	2½
Business Administration 107	2	2
Third Year		
French 35, German 35	2	1
Spanish 100	3	3
Chemistry 202	5	3
Geology 300	7	5
Geology 301	3	3
Business Administration 200	3	3
Business Administration 201	3	3
Fourth Year		
Spanish 200	2	2
Geology 401, 402, 403	8	7
Business Administration 300	3	3
Business Administration 305	3	3
Business Administration 491	..	3

Department of Latin with Greek

Requirements for Admission: Complete Pass Junior Matriculation and Honour Matriculation in English, Mathematics (Algebra and Geometry), Latin and another language.

This course is accepted by the Department of Education of Ontario as academic qualification for the Specialist Certificate in Latin with Greek (as a minor honour). For conditions see page 64.

This course is for those who have had no Greek before entering the University.

First Year		
Botany 10 or Zoology 10	6	4
English 11	1	1
French 10 or German 10	3	3
Library Science 10a	1	½
Physical Training 10 or 11	2	1
Latin 110	4	4
Greek 1-10	5	5

Subject	*Hours Per Week*	*Credits*
Second Year		
English 20, 21, 22	4	4
French 20 or German 20	3	3
Physical Training 20 or 21	2	1
Latin 202b, 220, 225, 230	6	5
Greek 112	3	3
Greek 115	2	2
Third Year		
English 30	3	3
Philosophy 30	2	2
Latin 330, 335, 340	5	5
Greek 202a, 225, 230, 330	7	6
Fourth Year		
History 45, 46	3	3
Latin 440, 441, 442, 445	6	6
Greek 331, 335, 340, 441, 442	7	7

Department of Mathematics and Business

Requirements for Admission: Complete Pass Junior Matriculation and Honour Matriculation in English, Physics, Mathematics (Algebra, Geometry, Trigonometry), and either French or German.

This course is designed for students who plan to become actuaries. It will prepare them for five of the eight examinations required for Associateship in the Actuarial Society of America and in the American Institute of Actuaries. The first three of these may be taken during the second year, or along with the fourth examination during the third year; the fifth may be taken during the fourth year. These examinations are held on the first Monday, Tuesday and Wednesday after the thirteenth of April and may be written in London. **Application to write these examinations must be made by January 31st.**

Students may elect this course only after consultation with the Head of the Department of Mathematics.

Note—This course does *not* satisfy the academic requirements for the Mathematics and Physics Specialist Certificate of the Department of Education of Ontario.

First Year

Same as first year in Department of Mathematics and Physics, page 88.

Second Year

Same as second year in Department of Mathematics and Physics, page 89.

In addition, students should if possible attend the lectures in Business Administration 107.

Third Year

Subject	*Hours Per Week*	*Credits*
Business Administration 200	3	3
Economic and Political Science 20	3	3
Mathematics 307a	2	1
Mathematics 317b	2	1
One of Groups I and II below.		

Fourth Year

Business Administration 400	3	3
Economic and Political Science 30 or English 35	2	2
Mathematics 407a	2	1
Mathematics 417b	2	1
One of Groups I and II below.		

The following two groups must also be taken in the third and fourth years. They are given in alternate years, Group I in 1931-32.

Group I

Business Administration 201	3	3
Economic and Political Science 303b	2	1
Physics 304b	2	1
Mathematics 301b	2	1
Mathematics 304	2	2
Mathematics 305a	2	1
Mathematics 312	2	2

Group II

Business Administration 309a, 309b	3	3
Business Administration 403	2	2
Mathematics 402a	2	1
Mathematics 404a	2	1
Mathematics 406	2	2
Mathematics 408	2	1
Mathematics 422b	2	1

Department of Mathematics and Physics

Requirements for Admission: Complete Pass Junior Matriculation and Honour Matriculation in English, Physics, Mathematics (Algebra, Geometry, Trigonometry), and either French or German.

This course satisfies the academic requirements for the Mathematics and Physics Specialist Certificate of the Department of Education of Ontario. *For conditions, see page 64.*

First Year

Chemistry 11	6	4
English 11	1	1
French 1 or German 1 (language not previously taken)	3	3
Library Science 10a	1	½
Physical Training 10 or 11	2	1
Physics 101a, 102b	5	3
Physics 110	3	1
Mathematics 100a	3	1½
Mathematics 102a	3	1½
Mathematics 103b	1	½
Mathematics 104b	3	1½
Mathematics 111b	2	1

Second Year

Subjects	*Hours Per Week*	*Credits*
English 20, 22	3	3
French 10 or German 15 (language chosen in first year)	3	3
Physical Training 20 or 21	2	1
Physics 201, 202	9	5½
Physics 220	2	2
Mathematics 200a	2	1
Mathematics 202a	2	1
Mathematics 204a	3	1½
Mathematics 210b	2	1
Mathematics 212b	2	1
Mathematics 214b	3	1½

Students may complete this course by taking either the Mathematics Option or the Physics Option as outlined below. (See also page 92).

Mathematics Option

Third Year

French 35 and German 35	2	1
Economic and Political Science 20	3	3
Mathematics 307a	2	1
Mathematics 317b	2	1
One of Groups I and II below.		

Fourth Year

Economic and Political Science 30 or English 35	2	2
History 45a, 46b	3	3
Mathematics 407a	2	1
Mathematics 417b	2	1
One of Groups I and II below.		

The following two groups are given in alternate years, Group I in 1931-2.

Group I

Physics 303	5	3
Physics 304b	2	1
Mathematics 301b	2	1
Mathematics 303a	2	1
Mathematics 304	2	2
Mathematics 305a	2	1
Mathematics 312	2	2
Mathematics 315b	2	1

Group II

Physics 400	2	2
Mathematics 400b	2	1
Mathematics 402a	2	1
Mathematics 404a	2	1
Mathematics 406	2	2
Mathematics 408	1	1
Mathematics 422b	2	1

Physics Option

Third Year

Subject	*Hours Per Week*	*Credits*
English 30 or 35	3	3
French 35 and German 35	2	1

Either Group I or Group II below.

Fourth Year

History 45a, 46b	3	3

Either Group I or Group II below.

Groups I and II are given in alternate years, Group I in 1931-32.

Group I

Mathematics 304	2	2
Physics 300	2	2
Physics 301	8	5
Physics 302a	2	1
Physics 303	5	3
Physics 304b	2	1

Group II

Mathematics 400b, 406a	2	2
Physics 400	2	2
Physics 401	2	2
Physics 402	2	2
Physics 404	9	3
Physics 408	1	1

Department of Philosophy

This course is open only to students of Assumption and Ursuline Colleges.

First Year

See pages 40 and 66.

Second Year

English 20, 22	3	3
Latin 20	3	3
Physical Training 21	2	1
Religious Knowledge 20, 21	2	2
Philosophy 200	3	3
Philosophy 220	2	2
Philosophy 230	2	2
Three credits from:		
French 20	3	3
German 20	3	3
Greek 20	3	3
History 20	3	3
Mathematics 20a, 24b, 23b, or 27b	3	3
A Science 20 or 10	6	4

Third Year

Subject	*Hours Per Week*	*Credits*
English 30	3	3
Philosophy 300	5	5
Philosophy 320	3	3
Philosophy 330	3	3
Three credits from:		
French 30	3	3
German 30	3	3
Greek 30	3	3
History 30	3	3
Latin 30	3	3
Religious Knowledge 30, 31	3	3
A Science 30 or 20	5	3

Fourth Year

English 40, 41	3	3
Philosophy 400	5	5
Philosophy 420	3	3
Philosophy 430	3	3
Three credits from:		
French 40	3	3
German 40	3	3
Greek 40	3	3
History 40	3	3
Latin 40	3	3
Religious Knowledge 40, 41	3	3
A Science 40 or 30	5	3

Department of Philosophy

This course is offered by University College only.

Requirements for Admission: Complete Pass Junior Matriculation. The course may be completed in three years by students who present for entrance, in addition to complete Pass Junior Matriculation, Honour Matriculation in English, Mathematics (Algebra and Geometry), Latin, French or German.

First Year

English 10, 11, 12	4	4
French 10 or German 1 or 10	3	3
Latin 10	3	3
Library Science 10a	1	½
Mathematics 10a, 12b	3	3
Physical Training 10 or 11	2	1
Physics 10a, 20b	5	3
Public Health and Bacteriology 10	1	1

Second Year

English 20, 21, 22	4	4
French 10 or German 1 or 10 (the one not previously taken)	3	3
History 25	2	2
Philosophy 220, 221	4	3
Physical Training 20 or 21	2	1
Zoology 10	6	4

Third Year

Subject	Hours Per Week	Credits
French 35, German 35	2	1
History 45, 46	3	3
Philosophy 330, 331, 332a, 333b, 335 or 336, 337a	9	8
Zoology 22	6	4

Fourth Year

English 30 or 35	3	3
French 45, German 45	2	1
Philosophy 334b, 440, 441, 442, 443	17	12

Department of Physics

See Department of Mathematics and Physics, page 88.

Department of Physics and Business

Requirements for Admission: Complete Pass Junior Matriculation and Honour Matriculation in English, Physics, Mathematics (Algebra, Geometry, Trigonometry), and either French or German.

Students must consult the Head of the Department of Physics before entering on the third year of this course.

This course does *not* satisfy the academic requirements for the Mathematics and Physics Specialist Certificate of the Department of Education of Ontario.

First Year

See Department of Mathematics and Physics, page 88.

Second Year

See Department of Mathematics and Physics, page 89.

Third Year

French 35 and German 35	2	1
Economic and Political Science 20	3	3
Business Administration 200	3	3
One of Groups I and II below.		

Fourth Year

Business Administration 201	3	3
History 45, 46	3	3
One of Groups I and II below		

The two following groups must be taken in the third and fourth years; they are given in alternate years, Group I in 1931-32:

Group I

Mathematics 304	2	2
Physics 301	8	5
Physics 302a	1	1
Physics 303	5	3
Physics 304b	1	1

Group II.

Subject	*Hours Per Week*	*Credits*
Physics 400	2	2
Physics 401	2	2
Physics 402	2	2
Physics 404	9	3
Physics 408	1	1

In order to receive the recommendation of the Department for the combined course in Physics and Business Administration the student must complete the following fifth year, which has been so arranged as to satisfy the requirements for the degree of Master of Arts.

Fifth Year

Business Administration 305	3	3
Physics 500	3	3
Industrial Research Problem	..	10

Department of Physics and Chemistry

See Page 78.

Department of Romance Languages

Requirements for Admission: Complete Pass Junior Matriculation and Honour Matriculation in English, Mathematics (Algebra and Geometry only), French and Latin.

Under the conditions specified on page 64, this course satisfies the academic requirements for the French and Spanish Specialist Certificate of the Department of Education of Ontario.

First Year

Botany 10 or Zoology 10 or Physics 10 or Chemistry 11	6	4
English 11, 20, 22	4	4
Latin 20	3	3
Library Science 10a	1	½
Physical Training 10 or 11	2	1
French 100	4	4
Spanish 100	3	3

Second Year

English 21	1	1
History 30	3	3
Physical Training 20 or 21	2	1
French 200, 201	4	4
Italian 100	3	3
Spanish 200, 201, 202	4	4

Third Year

History 40	3	3
French 300, 301, 302	6	6
Italian 200	3	3
Spanish 300, 301, 302	5	5

Fourth Year

English 30	3	3
French 400, 401, 402	6	6
Spanish 400, 401, 402, 403	6	6

Department of General Science

Requirements for Admission: Complete Pass Junior Matriculation and Honour Matriculation in English, Mathematics (Algebra, Geometry and Trigonometry), one of French or German; one of Physics or Chemistry or Biology.

This course satisfies the academic requirements for the Science Specialist Certificate of the Department of Education of Ontario. For conditions, see page 64.

First Year

Subject	*Hours Per Week*	*Credits*
French 1 or German 1 (language not previously taken)	3	3
Library Science 10a	1	½
Mathematics 20a, 24b	2	2
Physical Training 10 or 11	2	1
Botany 100, Zoology 100	6	4
Chemistry 101	6	4
Geology 100	4	3
Physics 101a, 102b	5	3

Second Year

English 20, 11, 22	4	4
French 10 or German 15 (language chosen in first year)	3	3
Physical Training 20 or 21	2	1
Botany 200, Zoology 200	8	5
Chemistry 202	6	3
Physics 201, 202	9	5½

Third Year

Economic and Political Science 20	3	3
Botany 300, 301	8	5
Chemistry 303	6	4
Geology 200	4	3
Zoology 300, 400	10	7

Fourth Year

History 45, 46	3	3
Chemistry 404	5	3
Geology 300	6	4
Physics 403	5	3
One of the following groups:		
Botany 401, Zoology 401 or Applied Biology 400	8	5
Botany 402, Zoology 402 or Applied Biology 406	8	5

The B.A., M.D. Course

Requirements for Admission: Complete Pass Junior Matriculation and Honour Matriculation in English and Mathematics (Algebra, Geometry, Trigonometry); in either French or German; and in Physics or Chemistry or Botany and Zoology.

First Year

Subject	*Hours Per Week*	*Credits*
Library Science 10a	1	½
French 1 or German 1 (language not previously taken)	3	3
Mathematics 20a, 24b	2	2
Physical Training 10 or 11	2	1
Botany 100, Zoology 100	6	4
Chemistry 101	6	4
Geology 100	4	3
Physics 101a, 102b	5	3

Second Year

English 20, 11, 22	4	4
French 10 or German 15 (language chosen in first year)	3	3
Physical Training 20 or 21	2	1
Botany 200, Zoology 200	8	5
Chemistry 202	6	3
Physics 201, 202	9	5½

Third Year

Economic and Political Science 20	3	3
Chemistry 303	6	4
Embryology (Medical School)	6	2
Zoology 300, 400	10	7
And one of:		
Botany 404a	8	2½
Chemistry 404	5	3

Fourth Year

Third year of the Six Year Medical Course.

DESCRIPTION OF COURSES

DEPARTMENT OF APPLIED BIOLOGY

University College

JOHN D. DETWILER, PH.D., Professor
LORA A. BILLING, B.A., Demonstrator

Students taking work in this department will be required to make a deposit of two dollars with the Bursar to cover supplies and breakages. A refund of any surplus will be made at the end of the college year.

30. **Lower Arthropods:** a general study of the comparative anatomy, postembryonic development, and economic importance of typical representatives of the main groups of the Arthropoda, exclusive of the Hexapoda.

2 lectures and 4 laboratory hours per week: 4 credits.
Prerequisite: Zoology 20.

42. **General Entomology:** morphology, organ systems, classification, life history, and economic importance of representative insects.

2 lectures and 4 laboratory hours per week: 4 credits.
Prerequisite: Applied Biology 30.

400. **Lower Arthropods:** the morphology, phylogenetic relationships, organ systems, and economic importance of typical representatives of the main groups of the Arthropoda, exclusive of the Hexapoda.

2 lectures and 6 laboratory hours per week: 2½ credits.
Prerequisite: Zoology 200.

402. **Morphology and Physiology of Insects:** the structure, vital functions, development, and elementary taxonomy of insects. An insect collection will be required and will be used by the student in class work.

2 lectures and 4 laboratory hours per week: 2 credits.
Prerequisite: Applied Biology 400.

403. **Fresh Water Biology:** the following phases of the life of inland waters will be dealt with: (i) a general review of the main groups of fresh-water fauna and flora, (ii) an ecological study of the life of inland waters, (iii) the development and conservation of aquatic resources.

2 lectures and 4 laboratory hours per week: 2 credits.
Prerequisites: Applied Biology 400, Botany 300.

404. **Soil Science:** the composition and properties of soil and their relation to crop growth, fertilizers and soil fertility.

The course is designed to make the student think in terms of soil management and plant production.

2 lectures and 4 laboratory hours per week: 2 credits.
Prerequisites: Botany 100, Chemistry 101, Geology 100.

406. **Entomology, Morphological and Systematic:** as outlined in Zoology 406.

408. **Plant Culture:** a fundamental course in the care and development of plants. The course is intended to prepare students for the investigation of plant-cultural problems related to vegetable gardening, flori-culture, fruit growing and field crops. This course must either be accompanied or preceded by Applied Biology 404.

2 lectures and 4 laboratory hours per week: 2 credits.
Prerequisites: Botany 100 and Botany 200.

Courses Leading to the Degree of M.A.

A selection from the following courses will be offered from time to time to suit the qualifications and objectives of the candidates:

500. **Economic Entomology.**
501. **Principles of Animal Ecology.**
502. **Insect Taxonomy.**
503. **Methods of Biological Investigation.**
504. **Genetics.**

DEPARTMENT OF BOTANY

University College

N. C. HART, M.A.,	Professor
ANSON R. WALKER, M.A.,	Associate Professor
HELEN B. BERDAN, M.A.,	Instructor
EVELYN JONES, B.A.,	Demonstrator
ALICE SMYTH, B.A.,	Demonstrator

Assumption College

REV. T. A. MACDONALD, M.A.,	Professor

Waterloo College

ROY J. E. HIRTLE, M.Sc.,	Professor

Students taking work in this department will be required to make a deposit of two dollars with the Bursar to cover supplies and breakages. A refund of any surplus will be made at the end of the college year.

10. **Introductory Botany:** for General Course Students; a course dealing with the general principles of Botany.

2 lectures and 4 laboratory hours per week: 4 credits.
Prerequisite: complete college entrance requirements.

Text-book: Smith, Overton, etc., *A Text-book of General Botany*.

20a. **Plant Biology:** for General Course students; a course dealing with the general principles underlying the study of plant culture and plant breeding.

2 lectures and 4 laboratory hours per week: 2 credits.
Prerequisite: Botany 10.

Text-book: Sinnot and Dunn, *Principles of Plant Genetics.*
References: Sharp, *Introduction to Cytology.*
Babcock and Clausen, *Genetics in Relation to Agriculture.*

20b. **Plant Physiology:** for General Course students; a course dealing with the relationship between plants and their surroundings, and with some of the functions of the organs of plants.

2 lectures and 4 laboratory hours per week: 2 credits.
Prerequisite: Botany 20a.

Text-book: Coulter, Barnes and Cowles, *Text-book of Botany, Vol. I.*
References: Livingston, *Palladin's Plant Physiology.*
Spoehr, *Photosynthesis.*
Stiles, *Photosynthesis.*

30a. **Plant Diseases and Fungi:** for General Course students; a course dealing with the recognition of poisonous and edible fungi and the identification, cause and control of common plant diseases.

2 lectures and 4 laboratory hours per week: 2 credits.
Prerequisites: Botany 20a and 20b, or Botany 10.

Text-book: Coulter, Barnes and Cowles, *Text-book of Botany, Vol. I.*
References: Stevens, *Plant Disease Fungi.*
Duggar, *Fungous Diseases of Plants.*

30b. **Bacteria, Yeasts and Molds:** for General Course students; an elementary course dealing with the common organisms which are of economic importance in reference to food supplies, including the fundamental principles of sterilization, pasteurization, refrigeration, and other protective processes.

2 lectures and 4 laboratory hours per week: 2 credits.
Prerequisite: Botany 30a.

Text-book: Buchanan and Buchanan, *Bacteriology.*
References: Conn, *Bacteria, Yeasts and Molds in the Home.*
Tanner, *Bacteriology and Mycology of Foods.*

40. **Plant Ecology and Taxonomy:** for General Course students; a course dealing with the recognition and classification

of the common garden and field plants with special reference to adaptations to their environment.

2 lectures and 4 laboratory hours per week: 4 credits.
Prerequisites: Botany 20a and 20b, or Botany 30a and 30b.

Text-book: Gray, *Manual of Botany.*
References: Strasburger, *Text-book of Botany.*
Blakeslee and Jarvis, *Trees in Winter.*
Schimper, *Plant Geography.*

Honour Courses

100. **Introductory Botany:** for Honour Biology, Honour Science, and B.A., M.D. students; a course dealing with the general principles of Botany illustrated by selections from the whole plant kingdom.

2 lectures and 4 laboratory hours per week: 2 credits.
Prerequisite: full entrance requirements for the Honour Science courses.

Text-book: Smith, Overton, etc., *A Text-book of General Botany.*

200. **Phanerogamic Botany:** for students in the Honour Biology, Honour Science and B.A., M.D. courses; a course dealing with the evolution, external morphology and anatomy of the Spermatophyta.

2 lectures and 6 laboratory hours per week; 2½ credits.
Prerequisites: Botany 100 and Zoology 100.

Text-books: Coulter, Barnes and Cowles, *Text-book of Botany.*
Gray, *New Manual of Botany.*

300. **Cryptogamic Botany:** for students in Honour Biology Honour Science and the B.A., M.D. courses; a course dealing with the morphology, classification and evolution of the Algae, Mosses and Ferns.

2 lectures and 6 laboratory hours per week: 2½ credits.
Prerequisites: Botany 200 and Zoology 200.

Text-books: Coulter, Barnes and Cowles, *Text-book of Botany, Vol. I.*
Strasburger, *Text-book of Botany.*

301. **Plant Physiology:** for students in Honour Biology and Honour Science; a course dealing with the physiology of plants.

2 lectures and 6 laboratory hours per week: 2½ credits.
Prerequisites: Botany 200 and Zoology 200.

Text-book; Livingston, *Palladin's Plant Physiology.*

400. **Historical Biology:** See Zoology 400.

401. **Ecology and Taxonomy:** for Honour Biology and

Honour Science students; a course dealing with the principles of ecology, and the classification of the Spermatophyta.

2 lectures and 6 laboratory hours per week: 2½ credits.
Prerequisites: Botany 300 or 301, Zoology 300.

Text-books: McDougall, *Plant Ecology.*
Coulter, Barnes and Cowles, *Text-book of Botany, Vol. II.*

402. **Phytopathology and Mycology** for Honour Biology and Honour Science students; a course dealing with plant diseases and the classification, morphology and structure of fungi.

2 lectures and 6 laboratory hours per week: 2½ credits.
Prerequisites: Botany 300, Zoology 300.

Text-books: Stevens, *Plant Disease Fungi.*
Duggar, *Fungus Diseases of Plants.*

403. **Plant Anatomy** for Honour Biology students; course dealing with the cytology and anatomy of the Pteridophyta and Spermatophyta.

2 lectures and 6 laboratory hours per week: 2½ credits.
Prerequisites: Botany 300, Zoology 300.

Text-books: Strasburger, *Text-book of Botany.*
Jeffery, *Anatomy of Woody Plants.*

404. **Bacteria, Yeasts and Molds:** a course dealing with the culture, classification and life histories of selected groups of fungi.

2 lectures and 6 laboratory hours per week: 2½ credits.
Prerequisite: Botany 402.

Text-books: Buchanan, *Bacteriology.*
Jordan, *General Bacteriology.*

406. **Advanced Cytology and Histology:** a continuation of 403, including the technique in connection with the preparation of materials for cytological and histological studies.

2 lectures and 6 laboratory hours per week: 2½ credits.
Prerequisite: Botany 403.

Text-book: Chamberlain, *Methods in Plant Histology.*
References: Sharpe, *Introduction to Cytology.*
Wilson, *The Cell in Development and Heredity.*

Courses Leading to M.A.

501. **Applied and Economic Botany:** a course dealing with the recognition of plant foods, fibres, adulterants, poisonous products, weed seeds, etc.

1 lecture and 6 laboratory hours per week: 2 credits.

Text-books and References: Hanausek, *Microscopy of Technical Products.*
Winton, *Microscopy of Vegetable Foods.*
Kraemer, *Applied and Economic Botany.*
Sargent, *Plants and their Uses.*
Brown, *Forest Products, their Manufacture and Use.*

502. **Plant Genetics:** an elementary course of lectures, discussions, and readings on plant breeding and associated topics: 2½ credits.

Text-book: Sinnot and Dunn, *Principles of Genetics.*
References: Coulter and Coulter, *Plant Genetics.*
Underwood, *New Creations in Plant Life.*
Punnett, *Mendelism.*
De Vries, *Species and Varieties—Their Origin by Mutation.*
Coulter, *The Evolution of Sex in Plants.*
Babcock and Clausens, *Genetics, in Relation to Agriculture.*
Articles in various Magazines: Genetics, etc.

503. **Plant Geography:** a course of discussions and readings on the distribution of plants and related topics: 2 credits.

References: Schimper, *Plant Geography.*
Hardy, *The Geography of Plants.*
The National Geographic Magazine.
Campbell, *Plant Geography.*
Encyclopaedia Brittanica.

504. **Advanced Phytopathology:** a course dealing with the symptoms, causes and control of the diseases of economic plants.

2 lectures and 6 laboratory hours per week: 2½ credits.

Text-books and References: Stevens, *Plant Disease Fungi.*
Stevens, *Diseases of Economic Plants.*
Heald, *Manual of Plant Diseases.*
Hesler and Whetzel, *Manual of Fruit Diseases.*
Taubenhaus, *Diseases of Truck Crops.*
Chupp, *Manual of Vegetable-Garden Diseases.*
Mason, *Spraying, Dusting, and Fumigating of Plants.*
Bulletins, Periodicals, etc.

505. **Research Problems in Plant Anatomy, Plant Ecology, Phytopathology or Mycology.**

DEPARTMENT OF BUSINESS ADMINISTRATION

P. H. HENSEL, M.B.A.,	Professor
L. W. SIPHERD, M.B.A.,	Assistant Professor
W. A. THOMPSON, M.B.A.,	Assistant Professor
C. C. CARROTHERS, B.A., LL.B.,	Lecturer
W. F. MARSHALL,	Lecturer
S. A. MORTIN, B.A.,	Assistant

27. **Introduction to Business Organization:** this course is prescribed for Secretarial Science students.

1 hour per week: 1 credit.

Text-book: Marshall and Wiese, *Modern Business.*

30. **Accounting and Bookkeeping:** this course is prescribed for Secretarial Science students.

2 hours per week: 2 credits.

Text-book: Jackson, Sanders and Sproul, *Bookkeeping and Business Knowledge.*

39. **Commercial Arithmetic:** interest, discount, commission, duties and customs, stocks and investments, partnership settlements, partial payments, equating or averaging accounts, compound interest, exchange, practical measurements and the metric system.

2 hours per week: 2 credits.

107. **Introduction to Business Organization:** an introductory course designed to acquaint the student with the basic general principles underlying business administration. A study will be made of cases involving typical business operations classified under the following topics; general business organization, promotion of business enterprises, business finance, industrial management, marketing. The point of view is that of the business administrator and the student will be acquainted with the nature of ordinary business activities and introduced to some of the elementary principles of business administration.

2 hours per week: 2 credits.

Text-book: Gilbert and Gragg, *Introduction to Business.*

200. **Accounting Principles:** principles underlying modern bookkeeping and accounting, the use of fundamental books, preparation and analysis of financial statements, application of principles to problems of capital, revenue, maintenance, cost accounting, etc.

3 hours per week: 3 credits.

Text-books: Cole, *Fundamentals of Accounting.*
Walker, *Problems in Accounting.*

201. **Marketing:** the object of this course is to introduce the student to the principles and methods of marketing merchandise, and to afford training in the analysis of typical selling problems. The first half of the course deals with the methods of marketing consumer goods; consumer buying habits and motives; and wholesale distribution. The work of the second half-year involves methods of marketing industrial goods; analysis of typical problems on selling policy which involve sales management, trade mark, brand, price, advertising and sales correspondence policies. The problem method will be used as the basis of study, supplemented by collateral readings on the principles of marketing. Written reports on assigned problems will be required at frequent intervals.

3 hours per week: 3 credits.

Text-book: M. T. Copeland, *Problems in Marketing.*

205. **Business Statistics:** Statistical method; up-to-date statistical studies of outstanding industries in Canada and the United States, as well as the various indexes of general business conditions; the value of statistical study. Laboratory work is planned for developing the students' ability in presenting statistical data graphically.

3 hours per week: 3 credits.

Text-books: Snider, *Business Statistics.*
Current Statistical Publications.

300. **Industrial Accounting:** This course examines the common methods of ascertaining prime costs and burden costs, and of distributing the latter over various products. The choice of methods and their application to particular types of industrial enterprises are considered, together with the relations of the cost records to the production planning. Attention is given to the content and form of operating reports for the guidance of various responsible officials. Each student is required to do practical field work in devising accounting systems, and opportunities are given to gain personal experience through constructive work in industry.

3 hours per week: 3 credits.

Text-book: Sanders, *Problems in Industrial Accounting.*
References: N. A. C. A. *Bulletins.*
A. H. Church, *Cost Accounting.*

302. **Finance Problems:** this course is based on a study of financial problems involving phases of finance administration such as the broad principles underlying the determination of an individual investment policy, administration of investment houses, commercial banks and finance companies, and problems in promotion, organization, etc. The greater part of the course

deals in general with the financial problems of a business and its relations with financial institutions.

3 hours per week: 3 credits.

Text-book: C. E. Fraser, *Problems in Finance.*

305. **Industrial Management:** this course will comprise a broad survey of the field of management, particularly the management of manufacturing concerns. It is the aim of this course to train students in effective methods of approach to administrative and executive problems related to production. Necessary descriptive background is drawn largely from the manufacturing industries. Excursions to view methods at first hand form part of the course. Problems arising in the location of an enterprise, the design and construction of buildings, the selection and arrangement of equipment, the procuring of the material, and labour requirements, are considered during the first half-year. In the second half-year the course deals primarily with the conduct and control of production. Executive organization, the services of functional specialists, labour relations, production control methods, and the uses of cost accounting are among the topics considered.

3 hours per week: 3 credits.

Text-book: Schell and Thurlby, *Problems in Industrial Management.*
References: Lansburgh, *Industrial Management.*
Taylor Society Bulletins.

306. **Accounting:** actual cases reflecting accounting policies in different enterprises and in the same enterprise through different periods; technique and details of procedure to illustrate application of policies; published financial statements and statements to creditors; tendencies peculiar to certain types of management; significance to stockholders, creditors and competitors of different methods of reporting business conditions; determination of accounting policies. A special course prescribed for third year students in Honour Economics.

2 hours per week: 2 credits.

309a. **Business Papers:** receipts, releases, promissory notes, chattel notes, lien notes, instalment notes, drafts, bills of exchange, orders, due bills, deposit slips, cheques, bank drafts, draft requisitions, deposit receipts, bank pass books, bills, invoices, credit invoices, accounts, monthly statements, warehouse receipts, bills of lading, freight bills, proxies, powers of attorney, agreements, bonds, debentures, leases, instalment scrips, stock certificates, stock transfers.

3 hours per week: 1½ credits.

309b. **Commercial Law:** this course embraces a general and particular outline of the principles of contract law from the elements to the remedies for breach, and includes special lectures on such phases of Commercial Law as agency, banking and bills of exchange, partnerships, corporations and foreign judgments.

3 hours per week: 1½ credits.

Text-books: Anson, *Contracts.*
Falconbridge, *Banking and Bills of Exchange.*
References: Falconbridge, *Sale of Goods.*
Russell, *Bills.*
Pollock, *Partnership.*
Willis, *Contracts.*
Dominion and Provincial Statutes.

400. **Advanced Accounting and Auditing:** analytical power, breadth of view, initiative and resourcefulness, with regard to accounting, are cultivated in this course. The work undertaken covers dissolutions of partnerships, combination and consolidation of corporations, bankruptcy, settling of estates, conducting business in two currencies simultaneously, purchase and sale of special types of securities, etc. The course also deals with auditing from the stand-point of the treasurer, controller, or auditor in charge of the accounts of a commercial or industrial concern.

3 hours per week: 3 credits.

Text-books: Case Material, compiled by the Department.
Hanson, *Problems in Auditing.*
References: Montgomery, *Auditing Theory and Practice.*
Bell and Powelson, *Auditing.*
Jackson, *Audit Working Papers.*
Journal of Accountancy.

401. **Sales Management:** a survey of the problems of the sales manager, such as those involving the sales organization, sales research, policies relating to the product, distribution policies, prices and terms of sale, methods of selling, management of the sales force, delivery policies, credits, collections and control of sales operations.

3 hours per week: 3 credits.

Text-book: Tosdal, *Problems in Sales Management.*

402. **Advertising:** this course will be a study of the place and function of advertising in business through a series of business cases; the uses of advertising by various types of retail business, by manufacturers of consumers' goods, by manufacturers of industrial goods, by wholesalers, and by various types of financial institutions. The course touches only incidentally upon the technique of advertising. Its purpose is not to give a

training for men who desire to become advertising technicians, but rather for those who, as executives, have to consider the use and application of advertising to accomplish results in business. Accordingly, the relation of advertising to the other functions in business management, especially to sales management, and the place of advertising in merchandising strategy are given consideration.

2 hours per week: 2 credits.

Text-book: Borden, *Problems in Advertising.*

403. **Insurance Problems:** this course is for actuarial students and covers the organization, financial and sale phases of Life Insurance Companies. The course will be handled entirely by Insurance Company executives.

2 hours per week: 2 credits.

409. **Executive Problems:** the aim of this course is to correlate the work given in the specialized courses of the previous years, and to show the interdependence among different functional departments of business, and to suggest the solution of problems affecting the broad general policy of an operating company. The approach of the course is that of a general executive who gives his attention to broad policy problems that touch all the departments of the business. Throughout the year business executives will be brought into the classroom to discuss with the students problems involved in the business represented by the speaker. There will be study and discussion of available case material dealing with production, accounting, marketing, financial and statistical aspects of businesses. Comprehensive written reports on current business problems are to be submitted by the students throughout the year.

3 hours per week: 3 credits.

Text-book: Current Case Materials.

491. **Research:** before graduation the student must submit a report covering the constructive and finished investigation of a major problem, chosen in consultation with the Head of the Department and the manager under whose guidance the investigation will be made. Class hours are arranged so as to give the student as much uninterrupted time as possible for this work.

3 credits.

M. A. Work

The Department of Business Administration offers graduate work in business leading to the degree of M. A. in Business Administration. The hours and credits to be assigned for M. A. courses will be decided by the Department. Students desiring to take this work should consult with the Head of the Department at as early a date as possible before the opening of the autumn term.

DEPARTMENT OF CHEMISTRY

University College

J. A. GUNTON, M.A., PH.D., F.C.I.C.,	Professor
JAMES W. BURNS, M.Sc., F.C.I.C.,	Associate Professor
C. SIVERTZ, B.A., PH.D.,	Assistant Professor
K. W. HUNTEN, PH.D.,	Instructor
*GERTRUDE ROWNTREE, B.A.,	Demonstrator
FRANCES PARLEE, B.A.,	Demonstrator
WM. MCLEAN, B.A.,	Demonstrator
**VAGN E. G. TEXEL,	Demonstrator
F. W. PYE,	Instrument Maker
JOHN DRAKE,	Curator

Waterloo College

ROY J. E. HIRTLE, M.Sc.,	Professor

Assumption College

REV. T. A. MACDONALD, M.A.,	Professor

Students taking work in this department will be required to make a deposit of five dollars per laboratory course at the time of registration to cover breakages. A refund of any remainder will be made through the office of the Executive Secretary at the end of the college year.

11. **General Chemistry**: a course of experimental lectures and laboratory work upon the metallic and non-metallic elements and their principal compounds, and an introduction to the fundamental laws of chemistry. The laboratory work consists of experiments covering the principles discussed and demonstrated in the lectures. Optional for first-year General Course Arts students.

*First Term 1930-31.
**Second term 1930-31.

2 lectures, 1 recitation and 4 laboratory hours per week: 4 credits.

Text-books: Deming, *General Chemistry* (Wiley).
Deming and Arenson, *Laboratory Manual in General Chemistry* (Wiley).

22. **Qualitative and Quantitative Analysis:** a laboratory course covering the principles of Qualitative and Quantitative Analysis; the laboratory work is largely individual in character, each student being required to work out a sufficient number of unknown compounds to ensure a working knowledge of the subject. Optional for second year students in the General Course.

1 lecture, 5 laboratory hours per week: 3 credits.

Prerequisite: Chemistry 11.

Text-books: Deming, *Laboratory Manual in Analytical Chemistry* (Wiley).
G. McP. Smith, *Quantitative Analysis.*

33. **Organic Chemistry:** a course of lectures dealing with the aliphatic and aromatic hydrocarbons and their derivatives; the carbohydrates, proteins and alkaloids. The laboratory work parallels the lectures and consists of the preparation and identification of a few of the more common carbon compounds. Optional for third-year students in the General Course

2 lectures, 3 laboratory hours per week: 3 credits.

Prerequisite: Chemistry 11.

Text-books: Lowy and Harrow, *Organic Chemistry* (Wiley).
Burns, *Laboratory Manual in Organic Chemistry.*

Honour Courses

101. **Inorganic Chemistry:** for Honour Science students.

A course of experimental lectures and laboratory work in General Chemistry.

2 lectures, 1 recitation and 5 laboratory hours per week: 4 credits.

202. **Second Course in Chemistry:** for Honour Science students.

1 lecture and 5 laboratory hours per week: 3 credits.

Text-books: Chapin, *Second Year College Chemistry.*
Chapin, *Exercises in Second Year Chemistry* (Wiley).

221a. **History of Chemistry and special topics.**

1 lecture per week, first term; ½ credit.

221b. **Quantitative Analysis.**

1 lecture and 6 laboratory hours per week, second term: 2 credits.

Text-book: Fales, *Inorganic Quantitative Analysis* (Century).

222. **Second Course in Chemistry**: for Honour Chemistry students.

2 lectures, 11 laboratory hours per week, first term:

2 lectures, 5 laboratory hours per week, second term: 5 credits.

Text-books: Chapin, *Second Year College Chemistry.*
Chapin, *Exercises in Second Year Chemistry* (Wiley).

303. **Organic Chemistry**: a course of lectures and laboratory exercises dealing with the more common carbon compounds. Prescribed for third-year Honour Science, Honour Biology, B.A., M.D., and Honour Chemistry students.

2 lectures, 1 recitation, 3 laboratory hours per week: 4 credits.

Prerequisite: Chemistry 101.

Text-books: Porter, *Organic Chemistry.*
Chamberlain, *Organic Chemistry* (Blakiston).

306. **Biochemistry**: laboratory course supplemented by lectures and demonstrations; optional for students in the Honour Science courses.

210 hours, 4 credits.

Prerequisites: Botany 100, Zoology 100, Chemistry 101, 202, 303. Given at the Medical School.

334. **Elementary Physical Chemistry**: a systematic derivation of the principles which govern reactions in chemical systems. The treatment will be more rigid and detailed than in Chemistry 404, emphasis being placed where most useful to the specialist in Chemistry; for third-year Honour Chemistry students.

2 lectures, 6 laboratory hours per week: 5 credits.

Text-book: Millard, *Physical Chemistry for Colleges.*

404. **Physical Chemistry**: a descriptive and non-mathematical treatment of the principles which govern reactions in chemical systems, with discussion of their application in relation to the other branches of science and the industries: for fourth-

year Honour Science and fourth-year Honour Biology; optional for fourth-year students in the General Course.

2 lectures, 3 laboratory hours per week: 3 credits.

Prerequisites: Chemistry 11, 22, 33.

Text-book: Walker, *Introduction to Physical Chemistry.*

443. **Advanced Organic Chemistry:** for fourth-year Honour Chemistry students.

2 lectures and 3 laboratory hours per week: 3 credits.

Text-books: Thorpe and Whitely, *Organic Chemical Analysis* (Longmans, Green).
Read, *Organic Chemistry* (Bell).
Taylor, *Reactions and Symbols of Carbon Compounds* (Century).

444. This course is studied in four parts in the order named: (I) 8 lectures in Mathematical Preparation, (II) 16 lectures on Introduction to Thermodynamics, (III) 21 lectures on Chemical Phenomena from the point of view of Thermodynamics and Kinetic Theory of Matter, (IV) 5 lectures on the Structure of Matter.

There will be 6 examinations during the year on the problems and theory of the work.

2 lectures and 4 laboratory hours per week: 4 credits.

Prerequisite: Chemistry 334 or 404.

Text-books: Daniels, *Mathematical Preparation for Students of Physical Chemistry* (McGraw-Hill).
Taylor, *Elementary Physical Chemistry* (Van Nostrand), or Proctor and Mathews, *Theoretical and Experimental Physical Chemistry* (Macmillan), or Eucken, *Fundamentals of Physical Chemistry* (McGraw-Hill).

445. **Research:** special topics and laboratory methods in the field of the student's individual interest. The second term will be devoted to a research problem, upon which a report will be required as a senior thesis. For fourth-year Honour Chemistry students.

9 hours per week: 5 credits.

447a. **Electrochemistry:**

2 lectures, 2 laboratory hours per week, first term: 2 credits.

Prerequisite: Chemistry 334 or 404.

Text-book: Creighton and Fink, *Principles of Electrochemistry* (Wiley).

448. **Seminar:** presentation of papers on topics selected from the current chemical journals, dealing with the more recent and fundamental developments of the science; for fourth-year Honour Chemistry students and desirable for all students majoring in Chemistry.

1 meeting per week: 1 credit.

449b. Colloid Chemistry:

2 lectures, 4 laboratory hours per week, second term: 2 credits.

Prerequisite: Chemistry 202 or 222.

Courses Leading to M. A.

551, 552, 553 or 554. Advanced work in Inorganic, Analytical, Organic or Physical Chemistry.

555. Research—arranged.

558. Seminar.

DEPARTMENT OF CLASSICS

University College

H. W. AUDEN, M.A.,	Professor
PRESIDENT W. S. FOX, PH.D., D.LITT., LL.D.,	Professor
DEAN K. P. R. NEVILLE, PH.D.,	Professor
R. E. K. PEMBERTON, M.A.,	Assistant Professor
J. D. RALPH, B.A.,	Assistant Professor
D. O. ROBSON, M.A.,	Instructor

Assumption College

PRINCIPAL V. L. KENNEDY, M.A.,	Professor
REV. T. J. VAHEY, M.A.,	Associate Professor
REV. E. J. WELTY, M.A., PH.D.,	Lecturer

Waterloo College

DEAN WILLIS C. FROATS, M.A., B.PAED.,	Professor
REV. S. W. HIRTLE, B.A.,	Associate Professor

Alma College

PRINCIPAL P. S. DOBSON, M.A., D.D.,	Professor
MRS. CLARA BLEWETT, B.A.,	Instructor

Huron College

PRINCIPAL C. C. WALLER, M.A., D.D.,	Professor
REV. F. ANDERSON, M.A., D.D.,	Professor

LATIN

Each student in any of the Latin courses is required to have at least one of the following Latin grammars; Bennett, Allyn and Bacon, Boston; Allen and Greenough, Ginn & Co., New York; Gildersleeve and Lodge, Heath & Co., Boston; and an Elementary Latin Dictionary, American Book Co.

Pass students may find Allen's Elementary Latin Grammar (Clarendon Press) sufficient.

10. Caesar, *De Bello Gallico V;* Cicero, *Pro Lege Manilia,* selections; Latin Poetry, selections; composition and sight translation.

3 hours per week: 3 credits.
Prerequisite: Middle School Latin.

Text-books: Caesar's *Gallic War*, Bk. V.
Jolliffe and Tracy, *Cicero, Pro Lege Manilia* (Macmillan).
Neville et al, *Latin Poetry Book* Part I, (Macmillan).

20. Quintus Curtius: *Life of Alexander;* Virgil, *Aeneid VI;* selected Latin poetry; composition; sight translation.

3 hours per week: 3 credits.

Prerequisite: Latin 10 or Upper School Latin.

Text-books: Sidgwick, *Virgil, Aeneid VI* (Macmillan).
Quinte-Curce, *Vie d'Alexandre,* Ed. Georgin (Hatier).
Rieu, *A Book of Latin Verse* (Methuen).
North and Hillard, *Latin Composition* (Copp, Clark).

30. Cicero, *De Amicitia;* Catullus; Virgil, selections from the *Bucolics* and *Georgics;* Tacitus, *Agricola;* lectures on the literature and the history of the Republic; composition, sight translation.

3 hours per week: 3 credits.

Prerequisite: Latin 20.

Text-books: E. P. Simpson, *Select Poems of Catullus* (Macmillan).
E. W. Bowen, *Cicero's De Amicitia* (Heath).
Page, *Virgil, Bucolics and Georgics* (Macmillan).
Norwood and Watt, *Tacitus, Agricola* (University Tutorial Press).
Auden, *Latin Composition* (Blackwoods).

40. Cicero, *Letters;* Pliny, *Letters;* Plautus, *Rudens;* Terence, *Andria;* lectures on the literature of the Ciceronian and Augustan periods; composition; sight translation.

3 hours per week: 3 credits.

Prerequisite: Latin 20.

Text-books: Abbott, *Cicero's Letters* (Ginn).
Westcott, *Pliny's Letters* (Allyn, Bacon).
E. A. Sonnenschein, *T. Macci Plauti Rudens* (Oxford).
E. H. Sturtevant, *P. Terenti Afri Andria* (American).
Auden, *Latin Composition* (Blackwoods).

45. St. Augustine, *De Fide;* with the consent of the instructors concerned, theological students in affiliated colleges may substitute the above for an equivalent amount of the prescribed authors in Latin 30 or 40.

1 hour per week, 1 term: ½ credit.

Honour Courses

110. Pliny, *Letters;* Sallust, *Jugurtha;* Virgil, *Aeneid VI;* selected Latin poetry; composition; sight translation.

4 hours per week: 4 credits.

Prerequisite: Latin 10 or Upper School Latin.

Text-books: C. Georgin, *Pline le Jeune, Lettres Choisies* (Hatier).
Page, *Virgil, Aeneid I-VI* (Macmillan).
W. C. Summers, *C. Sallusti Crispi Jugurtha* (Cambridge).
Rieu, *A Book of Latin Verse* (Oxford).
North and Hillard, *Latin Composition* (Rivington).
Gow, *A Companion to School Classics* (Macmillan).

202b. **Roman History**: from the earliest times down to the end of the period of the Antonines. Lectures, readings and reports. Prescribed for students in Honour Classics and optional with the consent of the instructor for other qualified students.

2 hours per week: 1 credit.

Text-book: Botsford, *History of Rome* (Macmillan).

220. Selections from *Propertius, Tibullus, Ovid;* Horace, *Epistles;* Cicero, *De Senectute.*

1 hour per week: 1 credit.

Prerequisite: Latin 110.

Text-books: K. P. Harrington, *The Roman Elegiac Poets* (American).
E. P. Morris, *Horace, Satires and Epistles* (American).
E. W. Bowen, *Cicero's De Senectute* (Heath).

225. **Composition, grammar and sight translation.**

1 hour per week: 1 credit.

Prerequisite: Latin 110.

Text-book: Auden, *Latin Composition* (Blackwoods).

230. Cicero, *De Amicitia;* Catullus; Virgil, selections from *Bucolics* and *Georgics;* Tacitus, *Agricola;* the literature and the history of the Republic.

2 hours per week: 2 credits.

Prerequisite: Latin 110.

Text-books: Simpson, *Select Poems of Catullus* (Macmillan).
Bowen, *Cicero's De Amicitia* (Heath).
Page, *Virgil, Bucolics and Georgics* (Macmillan).
Norwood and Watt, *Tacitus, Agricola* (University Tutorial Press).

330. Horace, *Satires;* Juvenal, *Satires;* Horace, *Odes;* Virgil, *Aeneid I-V.*

2 hours per week: 2 credits.

Prerequisite: Latin 220.

Text-books: E. P. Morris, *Horace, Satires and Epistles* (American).
H. L. Wilson, *Juvenal* (Heath).
Page, *Horace, Odes* (Macmillan).
Page, *Virgil, Aeneid I-VI* (Macmillan).

335. **Composition and sight translation.**

1 hour per week: 1 credit.

Prerequisite: Latin 225.

340. Cicero, *Letters;* Livy *XXI-XXX;* Plautus, *Rudens;* Terence, *Andria;* the literature and the history of the Ciceronian and Augustan periods.

2 hours per week: 2 credits.

Prerequisite: Latin 230.

Text-books: Abbott, *Cicero's Letters* (Ginn).
C. Georgin, *Tite-Live, Histoire: Troisième Decade* (Hatier).
Sonnenschein, *T. Macci Plauti Rudens* (Oxford).
Sturtevant, *T. Terenti Afri Andria* (American).

440. Tacitus, *Annals I, II, III;* Cicero, *De Officiis*, Book *III; Pro Milone; Philippics II.*

2 hours per week: 2 credits.

Prerequisite: Latin 330.

Text-books: Furneaux, *Tacitus, Annals* (Oxford).
Holden, *Cicero de Officiis, III* (Cambridge).

441. Cicero, *Pro Archia; In Catilinam;* Sallust, *Bellum Catilinae;* Lucretius *I-III;* Quintilian, Book *X.*

2 hours per week: 2 credits.

Prerequisites: Latin 330, 340.

Text-books: J. H. W. Lee, *Lucretius, De Rerum Natura I-III* (Macmillan).
Peterson, *Quintilian, Bk. X.* (School Edition) (Oxford).
J. W. Scudder, *Sallust's Catiline* (Allyn and Bacon).

442. Philology, epigraphy, palaeography, archaeology: lectures and readings.

1 hour per week: 1 credit.

Prerequisites: Latin 330, 340.

Text-books: J. C. Egbert, *Introduction to the Study of Latin Inscriptions* (American).
W. M. Lindsay, *Handbook of Latin Inscriptions* (Allyn and Bacon).
Laurand, *Manuel des Etudes Grecques et Latines*, Fasc. III, VI (Picard).

445. **Composition and sight translation.**

1 hour per week: 1 credit.

Prerequisite: Latin 335.

GREEK

1. **Elementary Greek**: a preparatory course leading up to the standard of Matriculation (omitting Homer) and designed for those who wish to begin the study of Greek after entering the University.

In order that this course may count for credit towards a degree Greek must be studied for three years. Arts students, on completing this course, will take Greek 10 and 20. Theological students, on completing this course, will take Greek 25 and 35.

3 hours per week: 3 credits. A fourth hour may be required at the discretion of the instructor.

Prerequisite: complete college entrance without Greek.

Text-books: White, *First Greek Book* (Ginn).
Philpotts and Jerram, *Easy Selections from Xenophon*, Chapters 4, 5 (Macmillan).
Colson, *Greek Reader, Pt. IV* (Macmillan).

1-10. **Elementary Greek**: leading to Honour Matriculation standard, for those who have had no Greek prior to entering the University; grammar, composition, sight, authors.

5 hours per week: 5 credits.

Text-books: White, *First Greek Book* (Ginn).
Philpotts and Jerram, *Easy Selections from Xenophon*, Chaps. 4, 5 (Macmillan).
Colson, *Greek Reader, Pts. IV, VIII* (Macmillan).
Philpotts, *Selections Adapted from Xenophon*, sections 1, 2, 3 (Oxford).
North and Hillard, *Greek Prose Composition* (Copp, Clark).

10. Xenophon, *Hellenica;* Colson's *Greek Reader*, part *VIII;* Homer, *Iliad I*, 148-192, 223-246, 345-363; *III*, 139-190; *VI*, 369-502; *XXII*, 273-363; composition; sight translation.

3 hours per week: 3 credits.

Prerequisite: Junior Matriculation Greek or Greek 1.

Text-books: J. S. Philpotts, *Selections Adapted from Xenophon*, Sections, I, II, III. (Oxford).
Colson, *Greek Reader* (Macmillan).
Rennie, *Selections from Homer* (Edward Arnold).
North and Hillard, *Greek Prose Composition* (Copp, Clark).

20. Plato, *Apology;* Thucydides *IV;* composition; sight translation.

3 hours per week: 3 credits.

Prerequisite: Greek 10 or Honour Matriculation Greek.

Text-books: G. Stock, *Plato, Apology and Crito* (Oxford).
C. E. Graves, *Thucydides IV* (Macmillan).
North and Hillard, *Greek Prose Composition* (Copp, Clark).

30. Euripides, *Medea;* Sophocles, *Antigone;* Aeschylus, *Prometheus Vinctus;* Herodotus, *VII;* lectures on the theatre and the development of the drama; composition; sight translation.

3 hours per week: 3 credits.

Prerequisite: Greek 20.

Text-books: Moore-Allen, *The Medea of Euripides* (Ginn).
Campbell and Abbott, *Sophocles, Antigone* (Oxford).
Allen-Wecklein, *Aeschylus, Prometheus* (Ginn).
A. Sidgwick, *Greek Prose Composition* (Ginn).
A. F. Butler, *Herodotus VII* (Macmillan).

40. Sophocles, *Ajax;* Euripides, *Iphigenia in Tauris;*

Aristophanes, *Clouds;* Demosthenes, *Olynthiacs*: lectures on the social, religious and political life of Athens in the age of Pericles; composition; sight translation.

3 hours per week: 3 credits.

Prerequisite: Greek 20.

Text-books: Campbell and Abbott, *Sophocles, Ajax* (Oxford).
C. S. Jerram, *Euripides, Iphigenia in Tauris* (Oxford).
W. W. Merry, *Aristophanes, Clouds* (Oxford).
T. R. Glover, *Demosthenes, Olynthiacs* (Cambridge).
A. Sidgwick, *Greek Prose Composition* (Ginn).

Biblical Greek

N.B.—The purpose of the following courses is to provide Theological students with such instruction in Biblical Greek as will enable them to make practical use of it in their subsequent work and further enable them to consult the originals of the important theological works of Greek patristic writers.

The fullest and most compact Lexicon is entitled *A Greek-English Lexicon to the New Testament*, thirteenth edition, revised by Rev. T. S. Green, published by S. Bagster and Sons, London; James Pott and Co., New York.

25. The Gospels of St. Mark and St. John; Galatians; The Acts of the Apostles; composition; sight translation.

3 hours per week: 3 credits.

Prerequisite: Greek 1 or Middle School Greek.

Text-books: Scrivener, *Greek Testament (Fourth Edition)* (Bell).
Nunn, *Syntax of New Testament Greek* (Cambridge).
Volumes in *Cambridge Greek Testament Series.*

The instructors reserve the right to interchange the authors in Greek 35 and 45.

35. The Gospel of St. Matthew; I and II Corinthians; Clement's Epistle to the Corinthians; lectures on the development and character of Biblical Greek; composition; sight translation.

3 hours per week: 3 credits.

Text-books: See Greek 25.
The Epistle of Clement of Rome (S. P. C. K. *Texts for Students, No.* 7).
References: Gregg, *The Epistle of Clement* (S. P. C. K.).
Lightfoot, *Apostolic Fathers: Clement of Rome, 2 vols.* (Macmillan).
Moulton, *Grammar of New Testament Greek.*

45. The Gospel of St. Luke; Romans; Hebrews; the Pastoral Epistles; Selections from the LXX, from the Greek Papyri and from early Christian writers; lectures on textual criticism; composition; sight translation.

3 hours per week: 3 credits.

Prerequisite: Greek 35.

Text-books: See Greek 25.
Kenyon, *Handbook to the Textual Criticism of the New Testament* (Macmillan).
Kirsopp Lake, *The Text of the New Testament* (Rivington).
Conybeare and Stock, *Selections from the L X X* (Ginn).
Milligan, *Selections from The Greek Papyri* (Cambridge).
Gwatkin, *Selections from Early Christian Writers* (Macmillan).

49. New Testament Greek with special attention to Grammar and Syntax. The Gospel of St. John and the Book of Acts will be read, the former in connection with the study of the Harmony of the Gospels. Other New Testament literature will be read at sight, in order to gain a knowledge of the different styles of the various writers. For Waterloo College students only.

3 hours per week: 3 credits.

Prerequisite: Greek 20.

Text-books: *Novum Testamentum Graece.*
Eberhard Nestle, *A Syntax of New Testament Greek* (Munn).
White, *First Greek Book.*
Robertson, *A Harmony of the Gospels.*

Honour Courses

110. Plato, *Apology;* Thucydides *IV;* Euripides, *Hippolytus;* Demosthenes, *Olynthiacs;* composition; sight translation.

4 hours per week: 4 credits.

Prerequisite: Greek 10 or Honour Matriculation Greek.

Text-books: G. Stock, *Plato, Apology and Crito* (Oxford).
C. E. Graves, *Thucydides IV* (Macmillan).
T. R. Glover, *Demosthenes, Olynthiacs* (Cambridge).
North and Hillard, *Greek Prose Composition* (Ginn).

112. Plato, *Apology;* Thucydides *IV;* Euripides, *Hippolytus,* Demosthenes, *Olynthiacs:* authors as of Greek 110.

3 hours per week: 3 credits.

Prerequisite: Greek 1-10.

Text-books: See Greek 110.

115. Grammar, syntax, composition.

2 hours per week: 2 credits.

Prerequisite: Greek 1-10.

Text-books: Goodwin-Gulick, *Greek Grammar* (Ginn).
North and Hillard, *Greek Prose Composition* (Copp, Clark).

202a. **Greek History**: from earliest times down to 146 B.C. Lectures, readings and reports. Prescribed for students in Honour Classics and optional with the consent of the instructor for other properly qualified students.

2 hours per week: 1 credit.

Text-book: Bury, *History of Greece.*

225. **Composition and sight translation.**

1 hour per week: 1 credit.

Prerequisite: Greek 110.

Text-book: Sidgwick, *Greek Prose Composition* (Ginn).

230. Euripides, *Medea;* Sophocles, *Antigone;* Aeschylus, *Prometheus Vinctus;* Herodotus, *VII;* the theatre and the drama.

2 hours per week: 2 credits.

Prerequisite: Greek 110.

Text-books: R. C. Jebb, *Sophocles, Antigone* (Cambridge).
Moore-Allen, *The Medea of Euripides* (Ginn).
Allen-Wecklein, *Aeschylus, Prometheus* (Ginn).
A. F. Butler, *Herodotus VII* (Macmillan).

330. Homer, *Odyssey* (selections); Thucydides *I, II, III.*

2 hours per week: 2 credits.

Prerequisite: Greek 230.

Text-books: Merry and Riddell, *Homer's Odyssey* (Oxford).
E. C. Marchant, *Thucydides I, II, III* (Macmillan).

331. Homer, *Iliad IX, XVIII, XXII* (selections); Sophocles, *Oedipus Coloneus;* Theocritus (selections).

1 hour per week: 1 credit.

Prerequisite: Greek 230.

Text-books: J. H. Pratt, *Homer, Iliad I-X* (Macmillan).
D. B. Monro, *Homer's Iliad XII-XXIV* (Oxford).
Campbell and Abbott, *Sophocles, Oedipus Coloneus* (Oxford) (Jebb's Abridged Edition).

335. **Composition and sight translation.**

1 hour per week: 1 credit.

Prerequisite: Greek 225.

Text-book: Sidgwick, *Greek Prose Composition* (Ginn).

340. Euripides, *Iphigenia in Tauris;* Aristophanes, *Clouds;* Plato, *Protagoras;* Sophocles, *Oedipus Rex.*

2 hours per week: 2 credits.

Prerequisite: Greek 230.

Text-books: Campbell and Abbott, *Sophocles, Oedipus Rex* (Oxford).
C. P. Jerram, *Euripides, Iphigenia in Tauris* (Oxford).
W. W. Merry, *Aristophanes, Clouds* (Oxford).
J. Adam, *Plato, Protagoras* (Cambridge).

440. Aeschylus, *Agamemnon;* Demosthenes, *De Corona;* Aeschines, *In Ctesiphontem;* selections from Lysias.

2 hours per week: 2 credits.

Prerequisite: Greek 330.

Text-books: A. Sidgwick, *Aeschylus, Agamemnon* (Oxford).
E. S. Shuckburgh, *Lysiae Orationes XVI* (Macmillan).
M. V. Humphreys, *Demosthenes, On the Crown* (American).
Gwatkin and Shuckburgh, *Aeschines, In Ctesiphontem* (Macmillan).

441. Plato, *Republic I-X* (selections); Aristotle, *Ethics I, IV, X* (selections).

2 hours per week: 2 credits.

Prerequisite: Greek 330.

442. Philology, epigraphy, palaeography, archaeology; lectures and readings.

1 hour per week: 1 credit.

Prerequisite: Greek 330.

445. **Composition and sight translation.**

1 hour per week: 1 credit.

Prerequisite: Greek 335.

DEPARTMENT OF ECONOMIC AND POLITICAL SCIENCE

University College

H. A. LOGAN, PH.D.,	Associate Professor
E. E. REILLY, B.S.A., M.S.,	Associate Professor
M. K. INMAN, M.A.,	Assistant Professor

Waterloo College

J. H. SMYTH, B.A., BARRISTER-AT-LAW,	Lecturer

Assumption College

REV. V. J. GUINAN, M.A.,	Professor
REV. B. N. FORNER, B.A.,	Lecturer
REV. J. H. O'LOANE, M.A.,	Lecturer
P. MARTIN, M.A., LL.M.,	Lecturer

20. **Introduction to Economics**: the purpose is to acquaint the student with the elementary economic concepts: production, exchange, consumption and distribution of wealth; money and banking; business cycle; international trade; labor problems; public finance; government regulation. Some attention will be given to the evolution of our economic system and to its legal setting at the present time.

3 hours per week: 3 credits.

30. **Financial Organization**: a general survey of the modern financial system. Money and credit, investment banks, savings banks and trust companies, stock exchanges and other institutions will be studied from the standpoint of functions performed. Emphasis will be placed upon the study of commercial banking especially with respect to Canada, the United States and Great Britain.

2 hours per week: 2 credits.

40. **Labor, Theory and Problems**: during the first term an inquiry will be made into the causes of industrial unrest and the remedies advocated. Such topics as unemployment, inadequate wages and industrial accidents, trade unionism, labor legislation and employers' remedies will be considered. The second term will include a study of various theories of social reform and suggested types of social organization; utopias, socialism, syndicalism, the indictment of capitalism and the latter's defense.

2 hours per week: 2 credits.

48. **Introduction to Sociology**: an analysis of group life and mental interaction; conflict and accommodation of persons, races, nations and classes; assimilation; the evolution of culture; our culture pattern analysed; change and its maladjustments; examination of our social institutions; the nature of social control; the community as an exhibit of forces working for control; community organization.

2 hours per week, one term: 1 credit.

101a. **Economic History of Europe**: the economic foundations from antiquity, the developments of the Middle Ages, Mercantilism, the Industrial Revolution, and laissez faire.

2 hours per week, first term: 1 credit.

102b. **Economic History of North America**: a course comprising the study of the geographical and historical conditions which have given rise to the current economic problems of the United States and Canada. Special attention will be given to Canadian problems in the way of assigned readings and reports.

2 hours per week, second term: 1 credit.

200. Identical with 20.

209b. **Economic Geography**: a study of the distribution and characteristics of major economic activities insofar as they

are related to the natural environment. Special attention will be paid to the economic geography of Canada.

3 hours per week, second term: 1½ credits.

300. Identical with 30.

301a. **Economics of Transportation**: railways, their historical development, characteristics, construction, organization, operation, rates, services, finance, ownership and control; inland waterways; ocean transportation; commercial aviation; urban and rural transportation as affected by highways, motor vehicles and street railways.

2 hours per week, first term: 1 credit.

302a. **Economics of Land**: characteristics, cost and income of land; national policies in the utilization of rural land; urban land utilization.

2 hours per week, first term: 1 credit.

303b. **Business Finance**: an analysis of the problems of the financial management of corporations; raising working capital by trade credit and bank loans; comparison of various types of stock, bond and note issues as methods of securing capital; a study of budget making and balance sheet analysis. By way of illustration certain financial problems will be studied in some detail.

2 hours per week, second term: 1 credit.

304a. **An Introduction to Politics**: the course will consist of a study of the state, its origin, form and activities, and a study of the working of governments particularly those of the United Kingdom, Canada, the United States, Germany, France and Switzerland. Reference will also be made to the governments of the new states of Central Europe and of Russia, and to the League of Nations.

2 hours per week, first term: 1 credit.

Text-book: G. R. Gettell, *Introduction to Political Science.*

304b. **Municipal Government**: an introductory course dealing with the fundamental problems of municipal government.

2 hours per week, second term: 1 credit.

305a. **Statistical Methods**: the theory and methods involved in the tabulation, analysis and presentation of statistical

data; tables, graphs, probability, descriptive measures and correlation—linear and non-linear, partial and multiple.

3 hours per week, first term: 1½ credits.

Text-book: F. C. Mills, *Statistical Methods.*

400. Identical with 40.

401a. **Political Theory:** a survey of the development of political theory from the classical period to the present.

3 hours per week, first term: 1½ credits.

401b. **Economic Theory:** a survey of the history and present outlook of economic theory.

3 hours per week, second term: 1½ credits.

405b. **International Trade and Commercial Policies:** this course deals with the theory of international values, foreign exchange and international aspects of the commercial policies of governments.

2 hours per week, second term: 1 credit.

408. Identical with 48.

Courses Leading to M. A.

500. Economic Theory.
503. Public Finance.
506. Business Trends.
507. Trade Unionism.
508. Sociology.
515. Investments.
518. Advanced Statistical Methods.
519. Agricultural Problems.
521. Comparative Government.

The hours and credits to be assigned for M. A. courses will be decided by the department. Students desiring to take any of these courses should notify the department of their intention not later than June previous to the autumn term in which the work will be taken. These courses will be grouped according to the interest of the student; one interested in Finance, for example, might register for 503, 515, 518. Any of the courses 500-521 may, at the option of the department, be substituted for an honour course of the 3rd or 4th year.

Government and Law

F. E. PERRIN, B.A., K.C., Lecturer
C. C. CARROTHERS, B.A., LL.B., Lecturer

305. **Roman Law**: a review of the customary law of the regal period at Rome, with a short history of the law from the time of the Decemviri to the death of Justinian, giving also an account of the growth of the unwritten law, praetor's edict, the formulary system, the jus naturae, the legislation during the Republic and under the Empire and the Justinian Code.

1 hour per week, one term: ½ credit.

Prerequisites: Economics 101, 102 and 200.

Text-book: Sandars, *The Institutes of Justinian.*

306. **English Law**: the law before the Norman Conquest, the Saxon Invasion, and the changes wrought by the Conqueror and his successors; the growth of the Feudal System, and the changes introduced by the Legislation of Henry II, Edward I and Edward III.

1 hour per week, one term: ½ credit.

Prerequisites: Economics 101, 102 and 200.

Text-books: Pollock and Maitland, *History of English Law, Vol. I.*
Storry-Deans, *Students' Legal History.*

307. **Jurisprudence**: general and historical jurisprudence, the analysis of law and of rights, the sources of law, a general classification of rights, adjective private law, public law and its various divisions.

1 hour per week, one term: ½ credit.

Prerequisites: Economics 101, 102 and 200.

Text-books: Holland, *Elements of Jurisprudence.*
Sir Henry Maine, *Ancient Law.*

308. **Theory of Political Obligation**: freedom in relation to the individual; man in a state of nature; the theory of contract as developed by Spinoza, Locke and Hobbs; Rousseau's Social Contract; the modern idea of consent.

1 hour per week, one term: ½ credit.

405. **English Constitutional Law**: the law of the English Constitution, with a sketch of the two Houses of Parliament, the Prerogatives, the Conventions and Courts.

1 hour per week, one term: ½ credit.

Prerequisites: Law 305-308.

Text-books: Dicey, *Law of the Constitution.*
Anson, *Law and Custom of the Constitution.*

406. **Federal Constitutional Law**: the leading features of Federal Government as exhibited in the most prominent Federal States; constitutions of Canada, Australia, Switzerland and the United States.

1 hour per week, one term: ½ credit.

Prerequisites: Law 305-308.

Text-books: Lefroy, *Federal System and Leading Cases in Federal Constitutional Law.* Woodrow Wilson, *Congressional Government.*

407. **Colonial Constitutional Law**: the various forms of Colonial Government, with special reference to the self-governing colonies.

1 hour per week, one term: ½ credit.

Prerequisites: Law 305-308.

Text-book: Todd, *Parliamentary Government in the Colonies* (to p. 318).

408. **Public International Law**: the essential principles are discussed and special reference made to current illustrations.

1 hour per week, one term: ½ credit.

Prerequisites: Law 305-308.

Text-book: Westlake, *International Law.*

DEPARTMENT OF ENGLISH

University College

W. F. TAMBLYN, PH.D.,	Professor
J. A. SPENCELEY, M.A.,	Associate Professor
MRS. E. K. ALBRIGHT, M.A.,	Assistant Professor
W. S. MILNE, M.A.,	Instructor
F. STILING, M.A.,	Instructor
JEAN I. WALKER, L.C.M.,	Instructor
MRS. JEAN T. NEVILLE, M.A.,	Lecturer
DORIS LIDDICOATT, M.A.,	Lecturer
MARION WRIGHTON, B.A.,	Lecturer
HELEN ALLISON, B.A.,	Assistant

Alma College

HELEN M. HARDY, B.A.,	Instructor
MAY BELLE ADAMS, B.L.I.,	Instructor

Assumption College

REV. J. V. BURKE, B.A.,	Professor
REV. E. G. LEE, B.A.,	Associate Professor

Ursuline College

M. M. CARMEL, M.A.,	Professor
M. M. BONAVENTURE, M.A.,	Instructor
M. M. ST. JAMES, M.A.,	Instructor
N. TOPLEY-THOMAS,	Instructor

Waterloo College

*CARL F. KLINCK, M.A.,	Assistant Professor
ELEANOR DOHERTY, M.A.,	Assistant Professor

Huron College

REV. T. G. WALLACE, M.A.,	Lecturer

10. Shakespeare and Prose Selections.
First term:

A.—A critical study of:
Shakespeare, *Henry IV*, *Parts I* and *II*.

*On leave of absence, 1930-31.

B.—A careful reading of the following plays:
Everyman.
Shakespeare, *Richard II.*

C.—A careful reading of the selections in *English Prose, Vol. I* (Peacock, Oxford), and *Selected English Essays* (Peacock, Oxford), from the following writers: Tyndale, Holinshed, North, Spenser, Raleigh, Hakluyt, Lyly, Authorized Version of the Bible, Bacon, Hobbes, Browne, Fuller.

D.—Outline of the development of English drama to Shakespeare.

E.—The facts of Shakespeare's life.

N.B.—For examination purposes the above five sections, A, B, C, D, E, will be combined into two parts to which marks will be assigned according to the following percentages:
Part I. (Section A)—75 per cent.
Part II. (Sections B, C, D and E)—25 per cent.

Second term:

A.—A critical study of:
Shakespeare, *Hamlet; The Winter's Tale.*

B.—A careful reading of the following plays:
Dekker, *The Shoemaker's Holiday.*
Shakespeare, *The Tempest.*

C.—A careful reading of selections from Boswell's *Johnson,* and of the selections in *English Prose, Vols. II-III* (Peacock), and *Selected English Essays,* from the following writers: Milton, Dryden, Pepys, Defoe, Swift, Addison, Richardson, Wesley, Fielding, Johnson, Gray, Walpole, White, Goldsmith, Burke, Gibbon, Sheridan and Frances Burney.

D.—Outline of the history of English prose literature in the eighteenth century.

N.B.—For examination purposes marks will be assigned according to the following percentages:
Part I. (Section A)—75 per cent.
Part II. (Sections B, C and D)—25 per cent.

2 hours per week: 2 credits.

Text-books: Deighton's Shakespeare (Macmillan), or The New Hudson (Ginn).
J. Q. Adams, *Hamlet.*
G. N. Pocock, *The Shoemaker's Holiday* (Dent).
Raleigh, *Shakespeare* (Macmillan).
J. Bailey, *A Shorter Boswell* (Nelson).
J. Buchan, *History of English Literature.*
English Prose, I, II, III (Oxford).
Selected English Essays (Oxford).

11. **Public Speaking**: in this course the aim is to show the speaker how to affect a given audience, in a given way, in

a given time. The ends of speech, such as clearness, belief, impressiveness, action and entertainment, are shown as determining the selection and arrangement of material. The speech is considered objectively in the light of its effect on an audience rather than subjectively. Exercises will be given to test the speaker's ability to gather, select, arrange and present material effectively.

1 hour per week: 1 credit.

Text-book: A. E. Phillips, *Effective Speaking* (Newton Company).

12. **Composition**: the mechanics of writing; essays prescribed every two weeks; outside reading and conferences.

Prescribed for all those in the first year General Courses.

1 hour per week: 1 credit.

Text-books: Foerster and Steadman, *Sentences and Thinking* (Houghton-Mifflin). Dawson, *Great Short Stories* (Harper).

20. **General Literature.**

First Term:

A.—A critical study of the following poems:

Chaucer, *General Prologue to the Canterbury Tales*, lines 1-162; 270-308; 388-444; 477-541; 751-858.
Ballads, *The Wife of Usher's Well, The Daemon Lover, Sir Patrick Spens.*
Spenser, *The Shepheardes Calendar; October.*
Shakespeare, *Sonnets*, XXIX, XXX, XXXIII, LV, LXXIII, CXI, CXVI; Songs from *Love's Labours Lost, As You Like It* (2), *Twelfth Night* (first), *Cymbeline* (2), *Romeo and Juliet.*
Jonson, *Song to Celia; To Shakespeare.*
Donne, *Love's Deity; Death.*
Milton, *Lycidas;* Sonnets, *Captain or Colonel; Avenge, O Lord; When I consider; Cyriack, this three years' day.*
Dryden, *Absalom and Achitophel (Part I); Alexander's Feast.*
Pope, *Epistle to Dr. Arbuthnot.*

B.—A careful reading of the following:

Ballad, *Robin Hood's Death and Burial.*
Malory, *Le Morte d'Arthur, Book XXI.*
Spenser, *Faerie Queene, Book I, Canto I.*
Bacon, Essays, No. I, V, VII, VIII, X, XII, XVII, XXIII, XXV, XXVI, XXVIII, XXXII, XXXIV, XLII, XLVII, L.
Milton, *L'Allegro; Il Penseroso; Paradise Lost, Book I.*

Swift, *A Tale of a Tub.*
Addison, *A Country Sunday; Sir Roger at the Assizes; Sir Roger at the Play; Westminster Abbey.*
Pope, *The Rape of the Lock.*
Bunyan, *Pilgrim's Progress, Part I.*
Scott, *The Fortunes of Nigel.*

C.—An understanding of the following literary terms: ballad, epic, lyric, sonnet, elegy, ode, pastoral poetry, burlesque; "ballad metre", blank verse, Spenserian stanza, heroic couplet.

D.—A knowledge of English literary history from Chaucer to Pope.

N.B.—For examination purposes the four sections—A, B, C, and D—will be combined into three parts, to which marks will be assigned according to the following percentages:
Part I (Section A)—60 per cent.
Part II (Section B)—20 per cent.
Part III (Sections C and D)—20 per cent.

Second Term:

A.—A critical study of the following poems:
Johnson, *The Vanity of Human Wishes.*
Thomson, *Summer, Winter.*
Gray, *Ode on a Distant Prospect of Eton College; The Bard; The Fatal Sisters.*
Collins, *Ode to Evening.*
Cowper, *The Task, Book I.*
Crabbe, *The Village, Book I.*
Burns, *Lines to John Lapraik; To a Mouse; Tam O'Shanter; Bonnie Doon; Highland Mary.*
Blake, *To the Muses; The Piper; The Clod and the Pebble; The Tiger; And did those feet in ancient times.*

Wordsworth, *Lines Composed a Few Miles above Tintern Abbey; A slumber did my spirit seal; My heart leaps up; Ode to Duty;* Sonnets, *It is a beauteous evening; It is not to be thought of; The world is too much with us.*

Coleridge, *The Rime of the Ancient Mariner; Kubla Khan.*

Byron, *Childe Harold, Canto III,* lines 1-153; *The Isles of Greece.*

Shelley, *Ozymandias; Ode to the West Wind; To a Skylark; To Night.*

Keats, *On First Looking into Chapman's Homer; Robin Hood; Ode on a Grecian Urn.*
Tennyson, *Of old sat Freedom on the heights; Break, break, break; Sir Galahad; Crossing the Bar.*
Browning, *Home Thoughts from the Sea; Love among the Ruins; My Star; The Last Ride Together; Asolando; Epilogue.*
Arnold, *Dover Beach.*
D. G. Rossetti, *The Blessed Damozel.*
A. Meynell, *The Shepherdess.*
Yeats, *The Lake Isle of Innisfree.*
Letts, *The Spires of Oxford.*
Brooke, *The Soldier.*

B.—A careful reading of the following:
Johnson, *Letters: To the Earl of Chesterfield; To James Macpherson.*
Boswell, *The Life of Johnson* (selection).
Gray, *Elegy written in a Country Churchyard.*
Burke, *The Speech for Conciliation with the Colonies* (selection).
Gibbon, *The Decline and Fall of the Roman Empire, Chapter LXVIII.*
Lamb, *Mackery End in Hertfordshire; A Chapter on Ears.*
Keats, *The Eve of St. Agnes.*
Tennyson, *In Memoriam* (selection).
Fitzgerald, *The Rubaiyat of Omar Khayyam* (selection).
Thompson, *The Hound of Heaven.*
Arnold, *The Study of Poetry.*
Shakespeare, *Hamlet.*
Thackeray, *Henry Esmond.*
Kipling, *Stalky and Co.*

C.—A knowledge of English literary history from Johnson to the present.

N.B.—On the examination paper marks will be assigned according to the following percentages:
Part I (Section A)—60 per cent.
Part II (Section B)—20 per cent.
Part III (Section C)—20 per cent.

2 hours per week: 2 credits.

Text-books: Cunliffe, Pyre and Young, *Century Readings in English Literature.*
J. Buchan, *History of English Literature* (Nelson).
Shakespeare, *Romeo and Juliet, Hamlet* (Macmillan, or Ginn).
Scott, *Fortunes of Nigel* (Everyman's Library).
Bunyan, *Pilgrim's Progress* (Nelson).
Thackeray, *Henry Esmond* (Everyman's Library).
Kipling, *Stalky and Co.*

21. **Public Speaking**: a further development of effective speech and thought following the principles and methods set forth in English 11. Special attention to centering and phrasing, plans and outlines, etc., that the student may deliver extemporaneously and in a conversational way.

Prerequisite: English 11.

1 hour per week: 1 credit.

Text-book: Winans, *Public Speaking*.

22. **Composition and Rhetoric**: relation of material to style; essays prescribed every two weeks; outside reading and conferences.

Note—Those who have already obtained a grade of A in English 12 may take English 202 in lieu of English 22.

1 hour per week: 1 credit.

Text-book: Pence, *College Composition* (Macmillan).

30. **Nineteenth Century Literature**: a special study of the following:

First Term:

Blake, *To Autumn, To the Evening Star, Fair Elenor, How sweet I roam'd, My silks and fine array, Gwin, King of Norway, A War Song, Piping down the valleys wild, The Little Black Boy, Holy Thursday (two), The Chimney Sweeper (two), On Another's Sorrow, The Tiger, The Clod and the Pebble, A Poison Tree, I told my love, I heard an angel singing, The Land of Dreams, Auguries of Innocence, From "Milton"*.

Wordsworth, *To My Sister, Expostulation and Reply, The Tables Turned, Lines Composed above Tintern Abbey, Three years she grew, A slumber, Michael, My heart leaps up, Resolution and Independence, It is a beauteous evening, To Toussaint, Written in London, September* 1802, *London* 1802, *It is not to be thought of, At the Grave of Burns, Stepping Westward, The Solitary Reaper, Yarrow Unvisited, Ode: Intimations of Immortality, To the Cuckoo, She was a phantom of delight, I wandered lonely as a cloud, Ode to Duty, Elegiac Stanzas, French Revolution, Nuns fret not, Personal Talk, The world is too much with us, September* 1819, *To a Skylark, Extempore Effusion, The unremitting voice of nightly streams.*

Coleridge, *Kubla Khan, Christabel, Frost at Midnight, Love, Dejection, Youth and Age.*

Scott, *The Maid of Neidpath, Marmion, Coronach, Jock o' Hazeldean, Pibroch of Donald Dhu, The sun upon the Weirdlaw Hill, Proud Maisie.*

Byron, *She walks in beauty, Sennacherib, Childe Harold, Canto III; Don Juan, Dedication, Canto I, stanzas* 212-218*; Canto II, stanzas* 49-53*; Canto III, stanzas* 86-111*; Canto XI, stanzas* 53-75.

The selections in Alden's *Readings* from Coleridge, Lamb and Hazlitt; Wordsworth, *Preface of* 1800.

Austen, *Pride and Prejudice;* Scott, *Guy Mannering.*

Second Term:

Shelley, *Ozymandias, Lines Written Among the Euganean Hills, Ode to the West Wind, The Sensitive Plant, The Cloud, To a Skylark, To Night, Adonais, One word is too often profaned, When the lamp is shattered.*

Keats, *Sleep and Poetry, In a drear-nighted December, The Human Seasons, Fancy, Bards of passion and of mirth, Ode on a Grecian Urn, To a Nightingale, To Autumn, La Belle Dame sans Merci.*

Tennyson, *The Palace of Art, St. Agnes' Eve, You ask me why, Love thou thy land, In Memoriam,* 9-11, 18-23, 31-33, 54-56, 86-88, 97-113, 118-127, 130-131, *Hands All Round, Milton, The Voyage, Northern Farmer* (old style), *The Higher Pantheism, Northern Farmer* (new style), *To Virgil, Vastness, Crossing the Bar.*

Browning, *The Lost Leader, Time's Revenges, The Bishop Orders his Tomb, Saul, Two in the Campagna, Memorabilia, Popularity, A Grammarian's Funeral, Abt Vogler, Rabbi Ben Ezra, Confessions, Prospice, Development, Epilogue to Asolando.*

Arnold, *To a Friend, The Strayed Reveller, The Second Best, Morality, A Summer Night, Requiescat, The Scholar-Gipsy, Thyrsis, The Better Part, Dover Beach, Growing Old.*

The selections in Alden's *Readings,* from DeQuincey, Macaulay, Carlyle (pp. 387-411), Newman, Ruskin, Arnold, Huxley, Pater (pp. 612-623), Stevenson (pp. 655-680).

Bagehot, *Wordsworth, Tennyson and Browning.*
George Eliot, *Scenes of Clerical Life;* Hardy, *Under the Greenwood Tree;* Meredith, *Diana of the Crossways.*

Essays will be required during the session on subjects connected with the literature read in this course. Prescribed for all third-year students in the General Course.

3 hours per week: 3 credits.

Text-books: *British Poets of the Nineteenth Century* (Sanborn).
Scott, *Guy Mannering* (*Nelson*).
Alden, *Readings in English Prose of the Nineteenth Century* (Houghton, Mifflin).
Austen, *Pride and Prejudice* (Nelson).
George Eliot, *Scenes of Clerical Life* (Nelson).
Hardy, *Under the Greenwood Tree* (Dent).
C. H. Herford, *Age of Wordsworth* (Bell).
Jones, *Critical Essays of the Nineteenth Century* (Oxford, World's Classics).
Meredith, *Diana of the Crossways* (Modern Library).
Raleigh, *Poems of Blake* (Oxford).
H. Walker, *Age of Tennyson* (Bell).

31. **The English Novel:** the development of the English novel will be traced from its beginning to the present. Optional for students in the third and fourth years of the General Course. Not given in 1931-32.

2 hours per week: 2 credits.

32. **Business Composition:**

First term: Précis writing and the construction of reports.

Second term: Business correspondence.

1 hour per week: 1 credit.

Prerequisite: English 22.

Text-books: Borden and Learned, *Suggestions in Report Writing* (Harvard University)
Saunders, *Effective Business English* (Macmillan).

33. **Canadian Literature:** a study of Canadian Prose and Poetry before and since Confederation. Optional for students in the third and fourth years of the General Course. Given in 1931-32.

Prerequisite: English 20 (with a minimum grade of C).

2 hours per week: 2 credits.

Note—The numerals following the poems prescribed refer to the anthologies listed below.

First Term:

A.—Poetry:

Moodie, *Maple Tree, Herd Boy, Indian Summer* (1).
McLachlan, *Old Hannah, Backwoods Hero, Acres of Your Own* (1).

Sangster, *Chaudiere* (1); *Brock, Evening, The Rapid* (2).
Rand, *The Dragonfly* (3).
Mair, From *Tecumseh* (1).
Crawford, *The Axe of the Pioneer, from Malcolm's Katie* (1); *Love's Land, Laughter, The City Tree, March* (2); *The Rose, The Moon of Falling Leaves* (4).
Drummond, *De Habitant, Wreck of the Julie Plante, Leetle Bateese* (1); *The Last Portage, Johnny Courteau, Little Lac Grenier* (2).
Cameron, *Standing on Tiptoe, Ah, Me! the Mighty Love* (2).
Roberts, *The Skater, Canada, The Place of His Rest* (1). *Grey Rocks and Greyer Sea, The Sower, Marsyas; The Clearing, Potato Harvest, Tantramar Revisited* (2).
Johnson, *The Song My Paddle Sings, The Cattle Country, Prairie Greyhounds* (1); *Iroquois Lullaby, Harvest Time* (2); *Shadow River, The Trail to Lillooet* (3),
Campbell, *How One Winter Came, The Flight of the Gulls, England* (1); *Lines on a Skeleton* (2).
F. G. Scott, *Van Elsen, The Unnamed Lake, In the Woods, Dawn* (2).

B.—Prose:
Baker, *History of Canadian Literature to Confederation;* Moodie, *Roughing it in the Bush;* Kirby, *The Golden Dog;* Lighthall, *The Master of Life;* Parker, *When Valmond Came to Pontiac;* Roberts, *Kindred of the Wild, In the Morning of Time;* Cappon, *Roberts and the Influences of His Time;* selections in *Broadus* from Haliburton, Howe, Richardson, Macdonald, Laurier.

Second Term:

A.—Poetry:
Carman, *Summer Streams, The Ships of Yule, The Ships of St. John, Now the Lengthening Twilights, Peony* (1); *Low Tide on Grand Pre, Spring Song, Gravedigger, Songs of the Sea Children: VI, XLVII, Overlord, Sappho: XXIII, LX* (2); *Earth Voices, Vestigia* (4).
Lampman, *April, Morning on the Lièvre, Railway Station, Solitude, In November, Snow, Sapphics, Across the Pea Fields, A Sunset, Storm Voices, Goldenrod*

(1); *Among the Millet, Heat, The Frogs, The Truth, The Larger Life* (2).

D. C. Scott, *April Fifteenth, For Remembrance, The Forsaken, The House of the Broken-hearted, Half-breed Girl, End of the Day* (2); *Off Riviere du Loup,* (4); *Rapids at Night, Bells, At the Cedars, The Voice of the Dusk* (3); *Labour and the Angel.*

Service, *Call of the Wild, Law of the Yukon* (2).

McCrae, *The Unconquered Dead, Quebec, Then and Now, Pere Pierre, The Night Cometh, In Flanders Fields* (1).

MacDonald, *The Undying Beauty, The Maker of Dreams, An Evening Song, Whist-Whee!* (3); *I Love Old Things, The Song of the Ski* (4); *Muskoka, Niagara, Exit, Song of the Hemp, He Has Kept Faith with Beauty,* from "Out of the Wilderness".

Pratt, *Sea Variations, Newfoundland* (3); *Titans, The Witches' Brew.*

Pickthall, *Dawn, Pere Lalemant, Canada to England* (1); *A Mother in Egypt, Evening, Swallow Song, The Bridegroom of Cana, Jasper's Song, Shepherd Boy* (2); *The Pool, The Immortal, Bega* (3); *The Wood-Carver's Wife.*

B.—Prose:

Leacock, *Sunshine Sketches;* McArthur, *The Affable Stranger;* Deacon, *Poteen;* Davies, *Tom Thomson;* Grove, *Search for America;* de la Roche, *Jalna;* Knister (ed.), *Canadian Short Stories;* Denison, *The Unheroic North;* Massey (ed.), *Canadian Plays from Hart House Theatre, Vol. I;* selections in *Broadus* from Heming and Wallace.

References and Anthologies:
Broadus, *A Book of Canadian Prose and Verse* (1) (Macmillan).
Campbell, *Oxford Book of Canadian Verse* (2).
Watson and Pierce, *Our Canadian Literature* (3) (Ryerson).
Stephen, *Golden Treasury of Canadian Verse* (4) (Dent).
Pierce, *An Outline of Canadian Literature* (Ryerson).
Stevenson, *Appraisals of Canadian Literature* (Macmillan).

34. **Modern English Drama**: a study of the development of modern English Drama from the early Victorian Era to the present, with a careful study of the representative works listed below. Optional in the third and fourth years of the General Course. Given in 1931-32.

Prerequisite: English 20 (with a minimum grade of C).

2 hours per week: 2 credits.

First Term:

Lytton, *Richelieu.*
Robertson, *Caste.*
Gilbert, *Mikado.*
Ibsen, *Doll's House, An Enemy of the People, Wild Duck.*
Jones, *Michael and his Lost Angel.*
Pinero, *Second Mrs. Tanqueray, Trelawney of the "Wells".*
Wilde, *Importance of Being Earnest.*
Shaw, *Candida, Man of Destiny, John Bull's Other Island, Dark Lady of the Sonnets, Misalliance, St. Joan.*

Second Term:

Galsworthy, *Strife, Justice, The Pigeon.*
Houghton, *Younger Generation.*
Barrie, *Alice-Sit-by-the-Fire, What Every Woman Knows, Mary Rose.*
Phillips, *Paolo and Francesca.*
Flecker, *Hassan.*
Masefield, *Good Friday, Tragedy of Nan.*
Ervine, *John Ferguson, Mary, Mary Quite Contrary.*
O'Casey, *Juno and the Paycock.*
Yeats, *Shadowy Waters, Cathleen-ni-Houlihan.*
Synge, *Riders to the Sea, Playboy of the Western World.*
Lady Gregory, *Spreading the News, Rising of the Moon.*
Dunsany, *Laughter of the Gods, Night at an Inn, Tents of the Arabs.*

References: F. W. Chandler, *Aspects of Modern Drama.*
J. W. Cunliffe, *Modern English Playwrights* (Harper).
Allardyce Nicoll, *British Drama* (Crowell).
Dickinson, *An Outline of Contemporary Drama* (Houghton, Mifflin).
Wm. Archer, *The Old Drama and the New* (Small, Maynard).

35. **Modern English Prose**: a study of some of the works of such modern writers on politics, economics, biography, science and philosophy, as C. W. Beebe, C. D. Burns, G. D. H. Cole, G. L. Dickinson, John Drinkwater, L. T. Hobhouse, W. H. Hudson, Dean W. R. Inge, Sir James Jeans, H. Laski, Ramsay Macdonald, J. A. Marriott, G. B. Shaw, Lytton Strachey, J. A. Thomson, Woodrow Wilson. The books studied will provide material for seminars, discussions and written themes, in which attention will be paid to the students' development of easy, correct and logical expression.

3 hours per week: 3 credits.

40. **Recent English Literature.**

First Term:

A.—Poetry since Tennyson: a study of the following:

The Oxford Book of Victorian Verse: Nos. 170, 175, 198, 205, 206, 213, 214, 221, 230, 241, 244, 245, 270, 274-5, 277, 290, 294, 297, 298, 304, 322, 324-7, 329, 332, 333, 341, 399-401, 405, 424, 426, 432-4, 452-5, 481, 493-4, 499, 508, 544-9, 583-4, 591, 595, 598.

British Poets of the Nineteenth Century:—Rossetti, *My Sister's Sleep, Sister Helen, The Portrait* (Sonnet), *Silent Noon.*

A. Methuen, *An Anthology of Modern Verse* (Methuen): the selections from Meredith, Hardy, Stevenson, Davidson, Bridges and Watson.

G. K. Chesterton, *The Victorian Age in Literature.*

Hugh Walker, *Literature of the Victorian Era* (Cambridge University Press).

O. Elton, *Survey of English Literature* 1830-1880 (Arnold).

B.—Prose since Ruskin: a study of the following:

T. Hardy, *Far from the Madding Crowd* (Macmillan).

R. L. Stevenson, *Talk and Talkers* (Ed. W. L. Phelps), *Aes Triplex, Lantern-Bearers, Pulvis et Umbra, The English Admirals, Pan's Pipes, Virginibus Puerisque* (ed. by J. H. Fowler, Macmillan).

A. Birrell, *Obiter Dicta* (Second Series): *Charles Lamb, The Office of Literature, Worn-out Types, Cambridge and the Poets* (Scribner).

G. B. Shaw, *Caesar and Cleopatra* (Constable).

H. Child, *Thomas Hardy* (Holt).

H. Williams, *Modern English Writers* (Sidgwick and Jackson).

Second Term:

A.—Poetry since Tennyson: a study of the following:

The Oxford Book of Victorian Verse: Nos. 601-4, 616, 619, 623-6, 643-5, 662-3, 666, 667, 670, 674-9, 689, 691-5, 706-7, 709, 723, 726-7, 729, 730, 738-9, 745-7, 751, 753-65, 770, 771, 776-9.

Methuen's *Anthology* and J. C. Squire's *Selections from Modern Poets*, and *Second Selections* (Martin Secker); the selections from Abercrombie, A. E., Armstrong, Baring, Bottomley, Brooke, Chesterton, Davies, De la Mare, Flecker, Gibson, Graves, Grenfell, Gurney, Hodgson, Lawrence, Linklater, Macaulay, Masefield, Monro, Moore, Murry, Newbolt, Nichols, Noyes, Owen, Pellow, Prewett, Priestley, Sackville-West, Sassoon, Shove, Sorley, Stephens, Thomas, Thompson, Turner, Yeats, Young.

Thompson, *To My Godchild* (Francis M.), *All Flesh.*
J. Masefield, *Biography.*
W. W. Gibson, *The Brothers, The Crane, The Snow, Devil's Edge* (All in *Fires*, Macmillan).
Flecker, *The Gates of Damascus, Yasmin.*
H. Newbolt, *New Paths on Helicon* (Nelson), pages 1-8, 19-20, 39-90, 103-112, 118-257, 262-266, 275-281 291-307, 326-357.
Hugh Walker, *Literature of the Victorian Era* (Cambridge).

B.—Prose since Ruskin: a study of the following:
A. C. Bradley, *Poetry for Poetry's Sake* in *Oxford Lectures* (Macmillan).
J. Conrad, *Typhoon* (Putnam).
H. Belloc, *Richelieu* (Lippincott).
Selected Modern English Essays (Oxford).
H. Williams, *Modern English Writers* (Sidgwick and Jackson).
2 hours per week: 2 credits.

41. **Mediaeval Literature**: a short study of the period culminating in Chaucer, with special study of:

First Term:
Geoffrey of Monmouth (I-III, IX-X), in translation (Dent).
Gottfried von Strassburg, *Tristan and Iseult*, in translation (Nutt).
Dante, *Inferno, Cantos* 1, 3, 5, 8-10, 16 (*ll.* 91-136), 19, 21, 22, 26 (*ll.* 84-142), 28 (*ll.* 118-142), 32, 33; *Purgatorio, Cantos* 1, 27-33; *Paradiso, Cantos* 1, 33 (Dent).
Piers Plowman, Prologue and Passus III-IV.
Gawain and the Green Knight (Nutt, or Houghton, Mifflin); *Perle* (ed. G. G. Coulton, Methuen).
Gummere, *Ballads*, pages 1-104, 116-122, 130-141, 144-5, 159-61, 197-205, 260-2, 283-92, 295-6 (Ginn).

Second Term:
Chaucer, *Former Age, Parlement of Foules, Troilus and Criseyde V, Balades, Canterbury Tales* (*Prologues, framework, tales of the knight, prioress, Sir Thopas, the nonne preest, the pardoner*) (Macmillan).
1 hour per week: 1 credit.

100. **English Verse and Prose**:
A.—A critical study of the following:
Jonson, *To the Memory of Shakespeare.*

Milton, *L'Allegro, Il Penseroso, Epitaph on Shakespeare, Lycidas.*
Marvell, *Horatian Ode.*
Dryden, *Absalom and Achitophel I, Alexander's Feast.*
Pope, *Rape of the Lock.*
Gray, *Eton College, Elegy, Progress of Poesy, The Fatal Sisters.*
Collins, *Evening.*
Goldsmith, *Retaliation.*
Cowper, *Table Talk,* 544-739; *Retirement,* 1-98, 219-278 365-452, 559-602, 677-779; *I am monarch, etc.; Winter Evening,* 429-552, 691-779; *My Mother's Picture, The Colubriad, The Retired Cat, To Mary.*
Crabbe, *The Village I, Peter Grimes.*
Blake, *To Spring, To Summer, To Autumn, To Winter, To Morning, To the Evening Star, Songs.*
Burns, *To William Simpson, Tam O'Shanter, Songs.*
Coleridge, *The Ancient Mariner, Kubla Khan, To a Gentleman.*
Byron, *Vision of Judgement.*
Keats, *The Eve of St. Agnes, The Eve of St. Mark.*
Tennyson, *Locksley Hall, Oenone, Milton.*
Browning, *My Last Duchess, Fra Lippo, Andrea, Caliban.*

B.—A careful reading of the following:
Ballads, selected.
Bunyan, *Pilgrim's Progress.*
Pope, *An Essay on Criticism.*
The selections from Steele to Stevenson in *Selected English Essays.*
Swift, *Gulliver's Travels.*
Johnson, *Preface to Shakespeare, Life of Savage.*
Gray, *The Bard.*
Collins, *Ode on the Superstitions of the Highlands.*
Goldsmith, *The Vicar of Wakefield, She Stoops to Conquer.*
Sheridan, *The School for Scandal.*
Burns, *The Cotter's Saturday Night.*
Byron, *Childe Harold, Canto IV.*
Thackeray, *Henry Esmond.*
Fitzgerald, *Rubaiyat.*

Prescribed with English 102 for first year students in Honour English courses.

2 hours per week: 2 credits.

Text-books: *The English Parnassus* (Oxford)
Selected English Essays (Oxford).
Buchan, *History of English Literature* (Nelson).
W. C. Martin, *Outline Studies in English Literature* (Prentice-Hall).
Representative English and Scottish Popular Ballads (Houghton, Mifflin).

102. **Composition**: essays prescribed every two weeks; readings and conferences.

1 hour per week: 1 credit.

200. **Epochal Works**: a study of the following texts:
Milton, *Paradise Lost.*
Shelley, *Song to the Men of England, The Mask of Anarchy, Ode to Liberty, Prometheus Unbound.*
Browning, *Bishop Blougram's Apology.*
Arnold, *Empedocles, The Buried Life.*
Austen, *Sense and Sensibility* (Macmillan).
Scott, *The Antiquary* (Nelson).
Brontë, *Jane Eyre* (Nelson).

Prescribed with English 202 and 220 for second year students in the Honour English courses.

2 hours per week: 2 credits.
Text-book: *The English Parnassus* (Oxford).

202. **Composition: the Literary Essay**: a study of the development of the essay form from Elizabethan times to the present day, and a critical study of certain modern examples; essays prescribed every two weeks; readings, reports and conferences.

1 hour per week: 1 credit.
Text-books: Newbolt, *Essays and Essayists* (Nelson).
Essays of To-day (Harrap).

220. The same prescription as for English 10 with the addition of a critical study of *Romeo and Juliet* and a careful reading of *Twelfth Night* in the first term, and a careful reading of *King Lear* in the second term.

2 hours per week: 2 credits.

300. Identical with English 30.

301a. **English Literature before Chaucer**: the prescribed readings are arranged to illustrate the development of English Literature from Widsith to Chaucer.

1 hour per week: 1 credit.

301b. **Anglo-Saxon Grammar**: translation of the following passages from *Introductory Old English Grammar and Reader*, edited by G. T. Flom: Selections IV, V, VI, X, XII,

XIII, XIV, XVI, XVII, XXIV, XXVIII, XXXV, XXXVIII, XL.
1 hour per week: 1 credit.
Text-book: G. T. Flom, *An Introductory Old English Grammar and Reader* (Heath).

341. Identical with English 41.

343. **Chaucer**: a reading course.
1 hour per week: 1 credit.
Prerequisites: English 200, 202, 220.

400. The same as English 40; Prescribed with 401, 402, 403, 404, for fourth-year students in the Honour English courses.
2 hours per week: 2 credits.
Prerequisites: English 300, 301a, 301b, 341, 343.

401. **The Elizabethan Drama**: the aim of this course is to trace the rise of English Drama and to study Shakespeare as a dramatist. The following plays will be read carefully:

Sacrifice of Isaac; Secunda Pastorum; Castell of Perseverance.
H. Medwall, *Fulgens and Lucres.*
Heywood, *The Foure PP.*
Udall, *Ralph Royster Doyster.*
Sackville and Norton, *Gorboduc.*
Lyly, *Campaspe.*
Peele, *The Arraignment of Paris.*
Greene, *Friar Bacon and Friar Bungay.*
Kyd, *The Spanish Tragedy.*
Marlowe, *Tamburlaine, Edward II.*
Dekker, *The Shoemaker's Holiday.*
Jonson, *Every Man in his Humour.*
Beaumont and Fletcher, *Philaster.*
Webster, *The Duchess of Malfi.*
Shakespeare, *Othello, Antony and Cleopatra, Cymbeline;* (critically), *Midsummer Night's Dream, King Lear, Coriolanus.*

2 hours per week: 2 credits.
Text-books: J. Q. Adams, *Chief Pre-Shakespearean Dramas.*
W. A. Neilson, *The Chief Elizabethan Dramatists.*

402. **Elizabethan and Caroline Literature:**
The English Parnassus (Oxford); *English Verse, Vols. I and II* (ed. Peacock, Oxford); Spenser, *Faerie Queene, Book I;* Milton, *Ode on the Nativity, Comus, Arcades, Samson Agonistes, Paradise Lost, Books I, II, IV;* Hakluyt, *Voyages of Gilbert and Drake;* Browne,

Religio Medici (Macmillan); Craik, *English Prose, Vol. II* (Macmillan).

2 hours per week: 2 credits.

403. **Nineteenth Century Prose**: lectures, critical reading and discussion of:

(A) Thought:
Mill, *Utilitarianism, Liberty.*
Carlyle, *Past and Present.*
Ruskin, *Unto This Last.*
Arnold, *Sweetness and Light, Equality.*
Seeley, *The Enthusiasm of Humanity.*
Lecky, *The Stoics.*
Royce, *Loyalty and Insight.*
Huxley, *The Physical Basis of Life.*
Darwin, *Mental Powers of Men and Animals.*
Wallace, *The Importance of Dust.*
Stephen, *An Agnostic's Apology.*

(B) Criticism:
Wordsworth, *Prefaces to Lyrical Ballads*, 1798-1800; *Preface to Poems* (1815), *Essay Supplementary to Preface* (1815).
Coleridge, *Biographia Literaria*, 17, 18.
Ruskin, *Pre-Raphaelitism.*
Arnold, *Literature and Science, The Function of Criticism, The Study of Poetry, Wordsworth.*
Pater, *Style, Wordsworth, Coleridge, Charles Lamb, Sir Thomas Browne, Introduction to the School of Giorgione.*
Stephen, *Sir Thomas Browne.*
Robertson, *Ruskin.*
Stevenson, *A Gossip on Romance, Burns.*
Whistler, *Ten o'Clock.*
Meredith, *An Essay on Comedy.*
Dickinson, *Greek Tragedy.*

1 hour per week: 1 credit.

404. **The History of the English Language**: the object of this course is to give a systematic presentation of the development of the English Language from the earliest records to the present, with special reference to the historical explanation of living forms.

1 hour per week: 1 credit.

References: See the various histories of the English Language by Emerson, Smith Jesperson, Lounsbury, Wyld, Krapp and Sweet.

Courses Leading to M.A.

500. **Contemporary English Literary Criticism** (being a continuation of 403B):

Recent development in aesthetics, in the theory and practice of poetry, metre and prose rhythms, in reviewing, and in the study of literary forms, such as lyric, epic, sonnet, epigram and essay, will be surveyed.

Among the books used or referred to in this course are the following:

Bosanquet, *History of Aesthetic* (1917).
Croce, *Aesthetic*.
Saintsbury, *History of Criticism*.
Brunetiere, *L'Evolution de la Poésie en France au 19e Siècle* (Paris, 1895).
J. M. Robertson, *New Essays toward a Critical Method*.
Ker, *The Art of Poetry*.
A. C. Bradley, *Oxford Lectures on Poetry*.
Raleigh, *Style, Milton*.
J. Mackail, *Lectures on Poetry*.
Quiller-Couch, *Studies in Literature*.
A. Symons, *The Symbolist Movement in Literature, Studies in Prose and Verse*.
G. Santayana, *Interpretations of Poetry and Religion, Three Philosophical Poets, Reason in Art*.
I. Babbitt, *The New Laocoon, Rousseau and Romanticism*.
E. F. Caritt, *The Theory of Beauty*.
R. Scott-James, *Personality in Literature*.
T. S. Omond, *A Study of Metre*.
L. Abercrombie, *Principles of English Prosody* (Secker); *An Essay towards a Theory of Art* (Secker); *The Theory of Poetry* (Secker); *The Epic* (Secker).
J. Middleton Murry, *Countries of the Mind, Aspects of Literature, The Problem of Style*.
O. Williams, *Contemporary Criticism of Literature* (Parsons).
I. Richards, *Principles of Literary Criticism* (Kegan Paul).
Ogden, Richards and Wood, *The Foundations of Aesthetics* (Allen and Unwin).
Hulme, *Speculations* (K. Paul).
L. Lewisohn, *A Modern Book of Criticism* (Macmillan).

Also books and articles by Bridges, Shaw, Herford, Elton, Newbolt, Bailey, More, Gayley, Spingarn, Lowes, Lynd, Strachey, Eliot, Fausset, Lubbock, Priestley, Squire.

501. **Seventeenth Century Prose**: the period covered extends from 1599 to 1660. Special attention will be paid to the Authorized Version of the Bible, Bacon, Burton, Browne, Hobbes, Milton, Cowley and Bunyan. The following will be touched upon as time permits: Dekker, Hall, Coryot, Overbury, Breton, Purchas, Smith, Earle, Donne, Drummond, Jonson, Lord Herbert of Cherbury, Fuller, Howell, Selden, Taylor, Walton and the Earl of Clarendon.

DEPARTMENT OF GEOLOGY

J. W. RUSSELL, M.A., Professor
G. H. REAVELY, M.A., Instructor

20. An Introductory Course in **General Geology and Meteorology**: (1) structure of the earth as a whole, and its astronomic relations to the other heavenly bodies; description and classification of the rocks of the lithosphere; rock weathering and soils; the common ores and their occurrence; erosion and deposition of sediments; fossils local to southwestern Ontario, and their interpretation; topographical features of the earth; an outline of the geological time: (2) accumulation of sediments, and deformation; mountain building, metamorphism and structural features resulting; volcanism; rivers, lakes and coastal features; glaciers and glacial deposits; a study of the Pleistocene ice age with reference to Ontario; the atmosphere, its composition, extent and circulation, the meteorological elements and weather forecasting; ocean currents and tides.

Laboratory work will consist of identifying specimens of minerals, rocks and fossils, with field trips to various limestone quarries for the interpretation of the glacial features of Ontario.

4 hours per week: 3 credits.

Prerequisite: Middle School Chemistry, or Chemistry 11.

Text-books: Miller, *Introduction to Physical Geology*.
Milham, *Introductory Meteorology*.

30. **Historical Geology**: the historical evolution of America; the age and economic significance of the rocks of Ontario; deposition of ores and the classification of ore deposits. Laboratory work will consist of collecting and identifying palaeozoic fossils and in examining ore, rock and mineral specimens.

3 hours per week: 3 credits.

Prerequisites: Upper School Biology or Botany 10 and Zoology 10; Geology 20.

Text-books: Miller, *Introduction to Historical Geology*.
Berry, *Palaeontology*.

40a. **Crystallography**: the structure of crystals and crystalline matter, morphological and interfacial relations of crystals. Laboratory practice on crystal drawing and study of natural crystals.

2 lectures and 4 laboratory hours per week: 2 credits.

40b. **Mineralogy**: Lectures in determinative Mineralogy,

and the occurrence of minerals. Laboratory practice on the determination of minerals with practice in elementary assaying.

2 lectures and 4 laboratory hours per week: 2 credits.

Text-books: Ford, *Dana's Manual of Mineralogy.*
Warren, *Determinative Mineralogy.*
Phillips, *Mineralogy* (Macmillan).

Honour Courses

100. **General Geology**: for students in honour courses in General Science, Geology, and Biology.

(1) Structure of the earth as a whole; description and classification of minerals, rocks and soils; ores and their depositions; rock weathering and the deposition of sediments; the principles of earth movements, deformation, metamorphism, volcanism; mountain building, faulting and rock structures resulting therefrom; glaciers, and glacial deposits with special reference to the Pleistocene ice sheet of North America.

(2) Identification of the invertebrate fossils local to south-western Ontario, and an outline of Historical Geology; age relation of the rocks of Ontario; elementary Meteorology.

The laboratory work consists in examination and identification of specimens of minerals, rocks, ores, and fossils with a collection from the local neighborhood.

4 hours per week, with field trips: 3 credits.

Prerequisites: complete entrance requirements for an Honour Science Course or Chemistry 11, Botany 10 or Zoology 10 taken concurrently.

Text-books: Chamberlain and Salisbury, *College Geology Pt. I.*
Milham, *Elementary Meteorology.*

200. **Historical Geology and Introductory Palaeontology**: an historical outline of the continents with special reference to North America: a study of invertebrate and vertebrate fossils and plant fossils. For students in the honour courses in General Science, and Geology.

4 hours per week, with field trips: 3 credits.

Prerequisite: Geology 100.

Text-books: Chamberlain and Salisbury, *College Geology Pt. II.*
Berry, *Palaeontology.*
References: Grabau, *Text-Book of Geology, Part II.*
Pirsson and Schuchert, *Text-Book of Geology, Part II.*

300. **Mineralogy**: comprising crystallography which will include lectures on the structure of crystals and their morphological relations with laboratory work in the drawing of ideal and natural forms. Also Physical Mineralogy dealing largely with an introduction to Optics with laboratory practice in the

use of the petrographic microscope. The course will also include Chemical Mineralogy comprising determinative work and practice in assaying.

3 lectures and 4 laboratory hours per week: 5 credits.

Text-books: Warren, *Determinative Mineralogy.*
Dana, *Text-Book of Mineralogy.*
Winchel, *Elements of Optical Mineralogy.*
Phillips, *Mineralogy* (Macmillan).

301. **Economic Geology**: a course of lectures with reading and laboratory work.

3½ hours per week: 3 credits.

Text-books: Lindgren, *Mineral Deposits.*
Reis, *Economic Geology.*
G. A. Young, *Economic Geology Series of Canada.*

400a. **Descriptive Mineralogy**: comprising a description of mineral species with practice on their Optical and Megascopic determination.

400b. **Petrology**: Lectures on the constitution of rocks, their associations and laboratory practice on their identification in hand specimens and thin section.

2 lectures, 4 laboratory hours per week: 4 credits.

Text-books: Pirsson and Knopf, *Rocks and Rock Minerals.*
Luquer, *Minerals in Rock Sections.*
Iddings, *Igneous Rocks.*
Winchel, *Elements of Optical Mineralogy, Parts I, II.*

401. **Regional Geology of Canada** with descriptions of the Geology of the various mining camps. A reading course based on the recent government reports. Seminar.

2 credits.

402a. **Field Geology**: principles of surveying, mapping and map reading with field practice.

2 lectures per week, with field trips: 2 credits.

Text-book: Breed and Hosmer, *Elementary Surveying, Vol. I.*

402b. **Structural Geology**: principles of rock structure, tectonics and dynamics of rocks and the construction and reading of geological maps. Lectures will be given on continental formation and drift and the Vegener Theory.

1 lecture, 3 laboratory hours per week: 2 credits.

Text-book: Leith, *Structural Geology.*

403a. **History of the Development of the Geological Sciences.**

2 lectures per week, first term: 1½ credits.

Text-book: Geikie, *Founders of Geology.*

403b. **Introduction to Metallurgical Practice.**

2 lectures per week, second term: 1½ credits.

Text-book: Hayward, *Outlines of Metallurgical Practice.*

DEPARTMENT OF GERMAN LANGUAGE AND LITERATURE

University College

N. C. JAMES, PH.D., LL.D., Professor Emeritus
R. A. ALLEN, PH.D., Associate Professor
EDWARD TAUBE, M.A., Instructor

Alma College

MRS. HARRIET DOBSON, B.A., Instructor
EDITH C. JAMES, B.A., Instructor

Waterloo College

REV. H. SCHORTEN, D.D., Professor

General Courses

1. **Preparatory German:** the work of the middle school or its equivalent is covered.
3 hours per week: 3 credits.
Text-books: Van der Smissen and Fraser, *High School German Grammar.*
Guerber, *Märchen und Erzählungen, Vol. I.*
Fiedler and Sandbach, *A First German Course for Science Students.*

10. **Intermediate German:** the work of the Upper School or its equivalent is covered. Grammar, pronunciation, dictation, translation into German, translation from easy modern German literary prose.
3 hours per week: 3 credits.
Prerequisite: Middle School German or German 1.
Text-books: Van der Smissen and Fraser, *High School German Grammar.*
Betz, *Deutscher Humor.*
Stern, *Geschichten von deutschen Städten, Vol. I.*
Supplementary Reading.

15. **Scientific German:** grammar, pronunciation, translation into German, translation from easy German scientific prose. Prescribed for science students.
3 hours per week: 3 credits.
Prerequisite: Middle School German or German 1.
Text-books: Van der Smissen and Fraser, *High School German Grammar.*
Gore, *German Science Reader* (Heath).

20. **Advanced German:** grammar, pronunciation, dictation, conversation, translation into German, translation from modern German.

3 hours per week: 3 credits.
Prerequisite: Upper School German or German 10.

Text-books: Van der Smissen and Fraser, *High School German Grammar.*
Keller, *Das Fähnlein der sieben Aufrechten.*
Fulda, *Das verlorene Paradies.*
Betz, *Till Eulenspiegel.*
Meyer, *Gustav Adolfs Page.*
Ernst, *Flachsmann als Erzieher.*
Supplementary Reading.

30. **Outline of Classical German Literature:** a survey of German Literature from the beginning to the end of the classical period with special emphasis on the works of Lessing, Goethe and Schiller. Prose composition, conversation, one hour per week.

3 hours per week: 3 credits.
Prerequisite: German 20.

Text-books: Lessing, *Minna von Barnhelm.*
Goethe, *Götz von Berlichingen.*
Goethe, *Iphigenie.*
Schiller, *Die Jungfrau von Orleans.*
Schiller, *Wilhelm Tell.*
Oxford Book of German Verse.

35. **Scientific German:** the reading of scientific works in German.

1 hour per week: ½ credit.
Prerequisite: German 15.

Text-books: Dippold, *Scientific German Reader.*
Zeisberg, *Mathematisches Unterrichtswerk für höhere Schulen.*

40. **Outline of Modern German Literature:** a survey of German literature from romanticism to the present. Prose composition, conversation, one hour per week.

3 hours per week: 3 credits.
Prerequisite: German 30.

Text-books: Fouqué, *Undine.*
Kleist, *Prinz Friedrich von Homburg.*
Grillparzer, *Sappho.*
Hebbel, *Agnes Bernauer.*
Heine, *Prosa* (Buchheim).
Sudermann, *Heimat.*
Oxford Book of German Verse.

45. **Scientific German:** the reading of scientific works in German.

1 hour per week: ½ credit.
Prerequisite: German 35.

Text-book: Kip, *A Scientific German Reader.*

Honour Courses

100. Grammar, pronunciation, dictation, conversation, translation.

3 hours per week: 3 credits.
Prerequisite: Upper School German or German 10.

Text-books: Van der Smissen and Fraser, *High School German Grammar.*
Keller, *Das Fähnlein der sieben Aufrechten.*
Fulda, *Das verlorene Paradies.*
Betz, *Till Eulenspiegel.*
Meyer, *Gustav Adolfs Page.*
Ernst, *Flachsmann als Erzieher.*
Supplementary Reading.

110. An introduction to the geography, history, politics and literature of Germany.
1 hour per week: 1 credit.
Text-books: Fleissner, *Deutsches Literatur-Lesebuch.*
Current Literature.

200. **Lessing and German Rationalism.**
3 hours per week, one term: 1½ credits.
Prerequisites: German 100, 110.

201. Grammar, conversation, translation into German, free composition.
1 hour per week: 1 credit.
Prerequisites: German 100, 110.

210. **Schiller and The Storm and Stress.**
3 hours per week, one term: 1½ credits.
Prerequisites: German 100, 110.

300. **German Romanticism.**
3 hours per week, one term: 1½ credits.
Prerequisites: German 200, 210.

301. Grammar, free composition, conversation, phonetics.
1 hour per week: 1 credit.
Prerequisite: German 201.
(Third year honor students who desire additional practice in German conversation may attend classes in German 401 without credit).

302. **Introduction to the History of the German Language:** elements of Middle High German Grammar.
1 hour per week: 1 credit.
Prerequisites: German 200, 201, 210.

310. **Goethe.**
3 hours per week, one term: 1½ credits.
Prerequisites: German 200, 210.

400. **Modern German Literature.**
3 hours per week: 3 credits.
Prerequisites: German 300, 310.

401. Grammar, free composition, conversation, commercial correspondence.
2 hours per week: 2 credits.
Prerequisite: German 301.

402a. **Middle High German Literature.**
2 hours per week, one term: 1 credit.
Prerequisites: German 300, 302, 310.

402b. **Survey of German Literature from M. H. G. to Lessing.**
2 hours per week, one term: 1 credit.
Prerequisite: German 402a.

Courses Leading to M. A.

Advanced work in German philology, literature, philosophy and criticism.

DEPARTMENT OF HEBREW

University College

REV. C. C. WALLER, M.A., D.D., F.A.G.S., Professor

The object of the course in Hebrew is chiefly to provide instruction for intending theological students to enable them to read the Hebrew Bible with a thorough knowledge of grammar, pointing and a general acquaintance with the Old Testament literature as a foundation for more advanced study of Semitic languages; but any student desiring a fuller acquaintance with the Old Testament is at liberty to choose the Hebrew options.

Every student must provide himself with a *Hebrew Bible*, Bagster's *Hebrew-English Lexicon* and Davidson's *Hebrew Grammar*, twentieth edition, revised by McFayden; earlier editons will not be permitted in the classroom. Third-year students must have Davidson's *Hebrew Syntax:* advanced students are recommended to provide themselves with the *Oxford Hebrew Lexicon.*

The Professors reserve the right to rearrange or change the prescription of authors in any year of the pass and honour courses for the intramural students.

General Courses

10. Grammar, selections and exercises in translation from English into Hebrew and from Hebrew into English; translation

of *Genesis*, 1-4, 18; *Psalms*, 2, 8, 19, 23, 51.Grammatical analysis, parsing and vocabulary.

3 hours per week: 3 credits.

(This course is also given at Waterloo College as Hebrew 19).

20. Grammar; exercises in translation from Hebrew into English and from English into Hebrew; pointing of simple passages; translation of *Genesis* 37, 40-45; *Exodus* 1-4; *I Kings* 17-19; *II Kings* 2, 17.

3 hours per week: 3 credits.

Prerequisite: Hebrew 10.

30. Grammar and syntax; exercises in translation from Hebrew into English and from English into Hebrew; pointing; introduction to prophetic writings; *Amos; Isaiah* 1-6, 40, 50-55; *Jeremiah* 7; *Ezekiel* 14.

3 hours per week: 3 credits.

Prerequisite: Hebrew 20.

40. Grammar, syntax, pointing, exercises in translation from English into Hebrew and from Hebrew into English; introduction to poetical writings; principles of Hebrew poetry; *Numbers* 23, 24; *Psalms* 1, 16, 24, 29, 37, 45, 50, 80, 84, 90, 110, 121-134; *Ecclesiastes* 12; *Proverbs* 1-4, 8; *Job* 28.

3 hours per week: 3 credits.

Prerequisite: Hebrew 30.

Honour Courses

100. Grammar; exercises in translation of Hebrew into English and English into Hebrew; Davidson, pp. 1-126, 208-221. Translation of prescriptions in Hebrew 10 and *Exodus* 1-4, *I Kings* 17-19, *II Kings* 2, 17; grammatical analysis, parsing and vocabulary.

4 hours per week: 4 credits.

200. Grammar; exercises in translation of Hebrew into English and of English into Hebrew; pointing of simple passages; translation of *Genesis* 37, 40-45; introduction to prophetic writings; *Amos; Isaiah* 1-6, 40, 50-55; *Jeremiah* 7; *Ezekiel* 14.

4 hours per week: 4 credits.

300. Grammar, syntax, pointing, composition, sight translation; introduction to poetical writings; principles of Hebrew poetry; *Numbers* 23, 24; *Psalms* 1, 16, 24, 29, 37, 45, 50, 80, 84, 90, 110, 121-134; *Ecclesiastes* 12; *Proverbs* 1-4, 8; *Job* 28.

4 hours per week: 4 credits.

Prerequisite: Hebrew 200.

400. Exercises in grammar, syntax, pointing and composition; sight translation; the *Psalms* not previously read.

3 hours per week: 3 credits.

Prerequisite: Hebrew 300.

401. Aramaic; Brown, *Aramaic Method, Parts I, II;* exercises, grammar, syntax, pointing, composition.

3 hours per week: 3 credits.

Prerequisite: Hebrew 300.

DEPARTMENT OF HISTORY

University College

A. G. DORLAND, M.A., PH.D.,	Professor
F. LANDON, M.A., F.R.S.C.,	Associate Professor
S. F. MAINE, M.A., B.D.,	Associate Professor
G. N. TUCKER, M.A., PH.D.,	Assistant Professor

Assumption College

REV. B. N. FORNER, B.A.,	Professor
REV. E. G. LEE, B.A.,	Lecturer
REV. T. J. VAHEY, M.A.,	Lecturer

Ursuline College

M. M. BONAVENTURE, M.A.,	Instructor
M. M. ST. JAMES, M.A.,	Instructor
M. M. MERCEDES, B.A.,	Instructor

Waterloo College

HANNAH M. HAUG, M.A.,	Professor

20a. **Ancient Civilization:** lectures, reading and essays.

3 hours per week, one term: 1½ credits.

20b. **Greece and Rome to 200 A.D.:** lectures, reading and essays. (University and Waterloo College students will take Greek 202 and Latin 202 in place of this course.)

3 hours per week, one term: 1½ credits.

25. **History of England to 1713**: economic and social developments will be stressed. Lectures, prescribed reading and essays. First term covers to 1485 with special emphasis on the period after 1066.

2 hours per week: 2 credits.

Text-book: Trevelyan, *History of England* (Longmans)

30a. **Mediaeval History (295-1300)**: lectures, prescribed reading and essays.

3 hours per week, first term: 1½ credits.

Text-book: Munro and Sontag, *The Middle Ages* (Century) or Thorndike, *History of Mediaeval Europe.*

30b. **The Renaissance and the Reformation (1300-1600)**: lectures, prescribed reading and essays.

3 hours per week, second term: 1½ credits.

Text-book: Hulme, *The Renaissance and The Reformation* (Century) or Schevill, *Political History of Modern Europe.*

31. **History of Canada**: lectures, prescribed reading and essays. A survey of the History of Canada from the beginning of the French Regime to the Great War (see History 301).

2 hours per week: 2 credits.

40a. **Modern History (1600-1815)**: lectures, prescribed reading and essays. The period down to 1763 will be reviewed in outline with a more detailed study of the Revolutionary and Napoleonic era.

3 hours per week, first term: 1½ credits.

Text-book: Hayes, *A Political and Social History of Modern Europe, 1500-1815, Vol. I* (Macmillan).
Robinson and Beard, *Readings in Modern European History, Vol. I.*

40b. **Modern History (1815-1915)**: lectures, prescribed reading and essays. The growth of nationalism and of democracy in Europe; the colonial and commercial expansion of the European nations as the background of the Great War will be especially studied.

3 hours per week, second term: 1½ credits.

Text-books: Hazen, *Europe since* 1815 (Holt).
Robinson and Beard, *Readings in Modern European History, Vol. II.*

43a. **The Development of Colonial Self-Government in the British Empire**: lectures, prescribed reading and reports. The lectures will be grouped under the following heads: British Colonial Policy at the beginning of the Nineteenth Century; the Colonial Reformers; the development of self-government in Canada, Australasia and South Africa; the constitution of Canada, of the Australian Commonwealth, of South Africa and of the Irish Free State; the growth of colonial nationalism and autonomy.

3 hours per week, first term: 1½ credits.

Text-books: Barnard, *The Expansion of Anglo-Saxon Nations.*
Currey, *British Colonial Policy.*
Egerton, *Federations and Unions in the British Empire.*
Scott, *Short History of Australia.*
Fairbridge, *History of South Africa.*

44. **History of the United States**: the colonial period, the revolution, making of the constitution, westward development, the slavery struggle, the Civil War, reconstruction and later political history to the present day. Attention will be given to the character of both federal and state government. The period down to the Civil War will be covered in the first term and the period since the Civil War in the second term.

Lectures, prescribed reading and essays.

2 hours per week: 2 credits.

Text-book: Muzzey, *History of the American People* (Ginn).

45a. **Mediaeval, Renaissance and Reformation History, and The Wars of Religion**: a rapid survey of Continental Europe from 295-1648. Lectures, essays and prescribed reading.

3 hours per week, first term: 1½ credits.

Text-book: Robinson, *An Introduction to the History of Modern Europe, Vol. I. (The Background of Modern History).*

46b. **Modern History**: a rapid survey course of Continental Europe from the Treaty of Westphalia, 1648, down to the present.

3 hours per week, second term: 1½ credits.

Text-book: Robinson, *An Introduction to the History of Western Europe, Vol. II. (The Emergence of Existing Conditions and Ways of Thinking).*

Honour Courses

105. **History of England to 1713**: economic and social developments will be stressed. Lectures, prescribed reading, and essays. First term covers to 1485 with special emphasis on the period after 1066.

2 lectures, 1 seminar and conference hour per week: 2 credits.

Text-book: Trevelyan, *History of England* (Longmans).

200a. **Mediaeval History (295-1300)**: lectures, prescribed reading and essays.

3 lectures, 1 seminar and conference hour per week, first term: 1½ credits.

Prerequisite: History 105.

Text-book: Munro and Sontag, *The Middle Ages* (Century).

200b. **The Renaissance and the Reformation (1300-1600)**: lectures, prescribed reading and essays.

3 lectures, 1 seminar and conference hour per week, second term: 1½ credits.

Prerequisite: History 105.

Text-book: Hulme, *Renaissance and Reformation* (Century).

300a. **Modern History (1600-1815)**: for details, see History 40a. Honour students will be required to do special reading and reports in this course.

3 lectures, 1 seminar and conference hour per week, first term: 1½ credits.

Prerequisites: History 200a, 200b.

Text-books: Hayes, *A Political and Social History of Modern Europe*, 1500-1815, *Vol. I* (Macmillan).
Robinson and Beard, *Readings in Modern European History, Vol. I.*
Gottschalk, *The Era of the French Revolution.*

300b. **Modern History (1815-1915)**: for details of course, see History 40b. Honour students will be required to do special reading and reports in this course.

3 lectures, 1 seminar and conference hour per week, second term: 1½ credits.

Prerequisites: History 200a, 200b.

Text-books: Hazen, *Europe Since* 1815 (Holt).
Robinson and Beard, *Readings in Modern European History, Vol. II.*
Flick, *Modern World History*, 1770-1926.

301. **History of Canada**: a survey of the History of Canada from the beginning of the French regime to the Great War. Lectures, prescribed reading and essays.

Students in this course will be expected to do wide reading in *The Chronicles of Canada, The Makers of Canada, Canada and its Provinces, The Cambridge History of the British Empire, Vol. VI., etc.*

2 lectures, 1 seminar and conference hour per week: 2 credits.

400. **British Political Parties**: a reading and lecture course conducted in connection with weekly seminars. Fourth year honour intramural students only admitted to this course. Lectures and discussions will be grouped around the following topics: The Rise of the Tory and Whig Parties; the Revolution of 1688; the Tory Reaction in the Reign of Anne; the "Reign of the Whigs"; the experiment in personal government of George III; The Disruption of the old Whig Party, the new Tory Party under Pitt; the Growth of Parliamentary Reform and Free Trade; Peel and Liberal Conservation; Disraeli and Democratic Toryism; Gladstone and Modern Liberalism; the Irish Parliamentary Party; the Unionist Party.

3 hours per week: 3 credits.

Text-books: Traill, *Shaftesbury.*
Morley, *Walpole.*
Williams, *Life of William Pitt, Earl of Chatham.*
Newman, *Edmund Burke.*
Drinkwater, *Charles James Fox.*
Rosebery, *Pitt.*
Thursfield, *Peel.*
Morley, *Cobden.*
Froude, *Beaconsfield.*
Morley, *Life of Gladstone.*

402. **English Constitutional History to the end of the Seventeenth Century**: lectures, prescribed readings and essays or reports. The following are the more important topics to be dealt with: Anglo-Saxon and Norman institutions; the feudal background; Crown, Central Government and Church, after 1066; development of the Common Law; origin and growth of Parliament, and its relation to the Crown.

2 lectures, 1 seminar and conference hour per week: 2 credits.

Text-books: Adams and Stevens, *Select Documents of English Constitutional History.* White, *The Making of the English Constitution.*

403a. **The Development of Colonial Self-Government in the British Empire**: for details, see History 43a. Honour students will be required to do special reading and reports in this course.

3 lectures, 1 seminar and conference hour per week, first term: 1½ credits.

404. **History of the United States**: see History 44. Prescribed for students of the fourth year in the Honour Course in History. Lectures, prescribed reading and essays.

2 lectures, 1 seminar and conference hour per week: 2 credits.

Courses Leading to M. A.

500. **Colonial and Imperial History**: a seminar course in Colonial and Imperial problems for advanced students who have the necesssary prerequisite courses, or for graduate students.

504. **American History**: a seminar course in selected problems in Canadian and United States history for advanced students who have the necessary prerequisite courses, or for graduate students.

The hours and credits to be assigned for 500 and 504 will be decided by the Department. Students desiring to take these courses must notify the Department of their intention not later than the June preceding the Fall Term in which the work will be taken.

DEPARTMENT OF LAW

F. E. PERRIN, B.A., K.C., Lecturer
C. C. CARROTHERS, B.A., LL.B., Lecturer

500. **Domestic Relations**: Eversley, substituting the Canadian Statutes for the English Statutes in the text-book. The parts to be read are: Parts I, II, and IV, to page 811; Part V, 875-9 inclusive, 884-94 inclusive and 919-34 inclusive.
Text-book: Eversley, *Domestic Relations*, Fourth Edition by A. Cairns.

501. **Corporations**: The following of the text named below: Part 1, ch. 1 to 4, inclusive; Part II, ch. 1 to 5, inclusive; Part III, ch. 2 to 3, page 198, ch. 4 to 13, inclusive; Part IV, ch. 1 and 2, sections 3 and 4; Part V, ch. 1 to 6, inclusive; Part VI, ch. 1 to 6, inclusive.
Text-book: Brice, *Ultra Vires* (Third English Edition).

502. **Medical Jurisprudence**: the following portions will be read from the text named below: Volume I, sections 1, 2, 4, 5, 6, 10, 11, 13; Volume II, sections 1-13 inclusive, 15.
Text-book: Taylor, *Medical Jurisprudence* (edited Smith, 7th edition, 1920).

503. **Theory of Obligation**: Institutes of Justinian.
Book I: Titles 1, 2, 3.
Book III: Titles 13-29 inclusive.
Book IV: Title 1.

504. **Thesis.** See page 51

DEPARTMENT OF LIBRARY SCIENCE

University College

CATHERINE CAMPBELL, B.A., Instructor
BEATRICE WELLING, B.Sc., M.A., Instructor

Assumption College

REV. E. J. WELTY, PH.D., Lecturer

Waterloo College

B. MABEL DUNHAM, B.A., Lecturer

10a. A course of instruction in the use of books and libraries, prescribed for all students in the first year. Classification and arrangement of books in the University library; the card catalogue; the most common reference books; bibliography. Those

who fail to obtain 50 per cent. in the first term will repeat the course as 10b in the second term.

1 hour per week, first term: ½ credit.

31. **Reference Work**: a critical study of selected standard reference books, with problems on the use of these; use of bibliographies and indexes; lectures and assigned readings on use of books and other printed materials in business.

2 lectures, 3 hour practice per week, second term: 2 credits.

DEPARTMENT OF MATHEMATICS AND ASTRONOMY

University College

W. J. PATTERSON, M.A.,	Professor Emeritus
H. R. KINGSTON, M.A., PH.D., F.R.A.S.,	Professor
ARTHUR WOODS, M.A.,	Associate Professor
G. R. MAGEE, M.S.,	Instructor

Assumption College

REV. V. J. GUINAN, M.A.,	Lecturer

Ursuline College

M. M. IMMACULATE, B.A.,	Professor

Waterloo College

ROY J. E. HIRTLE, M.Sc.,	Associate Professor

1a. **Review Algebra**: a non-credit course which begins with the seventh week of the first term and which is compulsory for those students who have failed to maintain the standard of 50 per cent. in Mathematics 10a during the first six weeks of the term. Students who complete the work of Mathematics 1a are permitted to re-register for Mathematics 10a during the second term of the academic year or later.

3 hours per week.

10a. **Algebra**: linear and quadratic functions of two variables—graphs, maximum and minimum values, linear factors; quadratic equation in one variable—solution, discriminant, sum and product of roots, construction of equations whose roots are functions of roots of given equation; ratio and proportion; vari-

ation; arithmetic, geometric and harmonic series; annuities; permutations and combinations as a prerequisite for the binomial theorem; binomial theorem proved for positive integral exponent and applied also with negative and fractional exponents; logarithms with simple applications.

3 hours per week, first term: 1½ credits.

Prerequisite: Pass Matriculation in Mathematics.

Text-book: Wilson and Warren, *An Intermediate Algebra* (Oxford).

12b. **Analytic Geometry**: the analytic geometry of the point, straight line, circle, parabola, ellipse and hyperbola to page 131 of text; application to curve of flight and reflectors.

3 hours per week, second term: 1½ credits.

Prerequisite: Pass Matriculation in Mathematics.

Text-book: Barnett, *Analytic Geometry* (Wiley)

20a. **Pre-calculus Mathematics**: review of binomial theorem; logarithms; exponential and logarithmic series; mathematical induction; loci; curve tracing; selected portions from the analytic geometry of the line, circle, parabola, ellipse and hyperbola.

2 hours per week, first term: 1 credit.

Prerequisites: Mathematics 10a, 12b and 23b, or Upper School Mathematics (3 papers).

Text-book: Barnett, *Analytic Geometry* (Wiley).

23b. **Trigonometry**: trigonometrical ratios and their relations; values of ratios of common angles; formulae of circular measure; applications; ratios of the sum and difference of two angles with derived formulae; logarithms; solution of triangles with derivation of the necessary formulae; radii of inscribed, escribed and circumscribed circles of a triangle; perimeters and areas of inscribed and circumscribed regular polygons of a circle.

2 hours per week, second term: 1 credit.

Prerequisite: Mathematics 10a.

Text-book: Hall and Knight, *Elementary Trigonometry* (New Edition) (Macmillan)

24b. **Calculus**: an elementary course stressing practical applications.

2 hours per week, second term: 1 credit.

Prerequisite: Mathematics 20a.

Text-book: Ford, *First Course in the Differential and Integral Calculus.*

25. **Descriptive Astronomy**: the constellations; systems of co-ordinates; shape, size and motions of the earth; the moon; eclipses; time; the solar system; the planets; comets and meteors; the sun; evolution of solar system; the stellar universe. Evening observations. The lectures will be illustrated with lantern slides. This course is not mathematical. Given in alternate years. Offered next in 1931-32.

2 hours per week: 2 credits.

Text-book: To be determined.
Kingston, *An Easy Pocket Star Guide for Beginners.*

27b. **The Mathematical Theory of Investment**: interest; annuities; amortization of debts; valuation of bonds; sinking funds and depreciation.

2 hours per week, second term: 1 credit.

Prerequisite: Mathematics 20a.

Text-book: Tate, *Interest, Annuities and Bonds* (Pitman).

Honour Courses

100a. **Algebra**: review of permutations, combinations and binomial theorem; exponentia and logarithmic series; interest and annuities; inequalities; limiting values and vanishing fractions; convergency and divergency of series; undetermined coefficients; partial fractions; recurring series; continued fractions; indeterminate equations of first degree; recurring continued fractions; summation of series.

3 hours per week: 1½ credits.

Prerequisites: Upper School Mathematics, or Mathematics 10a, 12b, 23b.

Text-book: Hall and Knight, *Higher Algebra*, pp. 187-340 (Macmillan).

102a. **Analytic Plane Geometry**: the cartesian system of co-ordinates, the straight line, circle, parabola, ellipse and hyperbola; polar co-ordinates with applications; transformations; the general equation of the second degree; the lines $ax^2+2hxy+by^2=0$; invariants of conics; asymptotes.

3 hours per week: 1½ credits.

Prerequisites: As for Mathematics 100a.

Text-book: Lennes and Merrill, *Plane Analytic Geometry* (Harpers).

103b. **Higher Trigonometry**: inscribed, escribed and circumscribed circles to triangles and regular polygons; mean centre, ortho-centre, in-centre, ex-centre, and circum-centre of a triangle; ex-central and pedal triangles to a triangle; general solutions for sin θ, cos θ, tan θ; inverse notation; derivation

of sin θ, cos θ and tan θ as series in terms of θ; derivation of θ in terms of sin θ, cos θ and tan θ; de Moivre's Theorem and consequences; summation of series whose terms are functions of θ, according to known laws; applications.

1 hour per week: ½ credit.

Prerequisites: As for Mathematics 100a.

Text-book: Lock, *Higher Trigonometry* (Macmillan).

104b. **Elementary Differential and Integral Calculus:** functions and limits of a variable; definition of derivative and its geometrical interpretation; differentiation of elementary functions; simple geometrical applications; maxima and minima; the indefinite integral as the inverse of the derivative; simple integrals; geometrical and physical significance of the constant of integration; the definite integral and its interpretation; simple applications to calculation of areas of plane curves and volumes of solids of revolution.

3 hours per week: 1½ credits.

Prerequisites: As for Mathematics 100a.

Text-book: Granville, Smith and Longley, *Elements of the Differential and Integral Calculus* (Ginn).

†11b. **Synthetic Solid Geometry.**

2 hours per week: 1 credit.

Prerequisites: As for Mathematics 100a.

Text-book: Wentworth and Smith, *Solid Geometry* (Ginn).

200a. **Determinants and Probability:** theory of determinants and applications; and introduction to the theory of probability with special application to actuarial problems;

2 hours per week; 1 credit.

Prerequisite: Mathematics 100a.

Text-book: Hall and Knight, *Higher Algebra* (Macmillan).

202a **Analytic Plane Geometry:** the theory of Determinants and the methods of the Differential Calculus are stressed wherever possible in a consideration of: the geometry of points and lines related to a triangle; the theorem of Desargues: the cross-ratio of four points on a line and four lines through a point; the harmonic properties of a complete quadrilateral and of a complete quadrangle; the geometry of a circle and conic, studied by means of a homogeneous coordinate system; the duality between point coordinates and line coordinates; the tangential equation of a conic; classification of the conic represented by the general homogeneous quadratic equation in three variables; confocal conics; similar conics; the conic as a plane section of a cone.

2 hours per week: 1 credit.
Prerequisite: Mathematics 102a.
Text-book: G. Salmon, *Conic Sections* (Longmans).
References: C. Smith, *Conic Sections* (Macmillan).
W. P. Milne, *Homogeneous Coordinates* (Arnold).

204a. **Differential Calculus**: successive differentiation; maxima and minima of f(x); points of inflexion; curve tracing; differentials; rates; change of dependent and independent variables; curvature; envelopes; evolutes; involutes; Mean Value Theorem; indeterminate forms; partial differentiation; Taylor's and Maclaurin's Series applied to expansions of functions; asymptotes; singular points; tangent planes and normal lines to surfaces; tangent lines and normal planes to twisted curves.
3 hours per week: 1½ credits.
Prerequisite: Mathematics 104b.
Text-book: Granville, Smith and Longley, *Elements of the Differential and Integral Calculus* (Ginn).

210b. **Elementary Theory of Numbers and Theory of Equations.**
2 hours per week: 1 credit.
Prerequisite: Mathematics 100a.
Text-books: Hall and Knight, *Higher Algebra* (Macmillan).
Dickson, *First Course in the Theory of Equations* (Wiley).

212b. **Analytic Solid Geometry.**
2 hours per week; 1 credit.
Prerequisites: Mathematics 102a and 104b.
Text-book: C. Smith, *Solid Geometry*, pp. 1-96 (Macmillan).

214b. **Integral Calculus**: integration as inverse of differentiation and as the limit of summation; methods of integration; reduction formulae; definite integrals; applications.
3 hours per week: 1½ credits.
Prerequisite: Mathematics 104b.
Text-book: Williamson, *Integral Calculus, Elementary Treatise* (Longmans).

301b. **Modern Synthetic Projective Geometry**: geometric continuity; selected theorems on ranges of points and pencils of lines; collinearity and concurrence; perspectivity; inversion; poles and polars; polar reciprocation and the principle of duality; harmonic and anharmonic ratios; projection.
2 hours per week: 1 credit.
Prerequisites: Mathematics 200a-214b.
Text-book: Johnson, *Modern Geometry* (Houghton, Mifflin).

303a. **Spherical Trigonometry**: the solutions of the spherical triangle with applications to problems in geodesy; introduction to theory of least squares.

2 hours per week: 1 credit.
Prerequisites: Mathematics 200a-214b.
Text-book: Wells, *Six Place Logarithmic Tables* (Heath).

304. **Differential Equations**: differential equations of first order; singular solutions; applications; linear equations with constant coefficients; with variable coefficients; exact differential equations; integrations in series; equations of second order; equations with more than two variables; partial differential equations.
2 hours per week: 2 credits.
Prerequisites: Mathematics 200a-214b.
Text-book: Murray, *Differential Equations* (Longmans).

305a. **Descriptive Astronomy**: the constellations; systems of co-ordinates; shape, size and motions of the earth; the moon; eclipses; time; the solar system; the evolution of the solar system. Evening observations.
2 hours per week: 1 credit.
Text-books: To be determined.
Kingston, *An Easy Pocket Star Guide for Beginners.*

307a. **Finite Differences**: fundamental difference forms; factorial expansions; interpolation formulae; statistical applications; mechanical quadratures; integration; central differences; Euler-Maclaurin's, Woolhouse's and Lubbock's Formulae.
2 hours per week: 1 credit.
Prerequisites: Mathematics 200a-214b.
Text-book: Henry, *Calculus and Probability* (C. and E. Layton).

312. **Analytic Solid Geometry**: plane sections of conicoids; generating lines of conicoids; systems of conicoids; tangential equations; reciprocation; confocal conicoids; foci of conicoids; quadriplanar and tetrahedral co-ordinates; surfaces in general; twisted curves; curvature of surfaces.
2 hours per week: 2 credits.
Prerequisites: Mathematics 200a-214b.
Text-book: C. Smith, *Solid Geometry* (Macmillan).

315b. **Mathematical Astronomy**: time, the conversion of time; the ephemeris; corrections of observations for refraction, parallax, aberration and dip; description and working principles of astronomical instruments; errors of instruments, and how to eliminate their effects; determination of latitude, longitude, azimuth and time; nautical astronomy.
2 hours per week: 1 credit.

Prerequisites: Mathematics 303a, 305a.

Text-books: Hosmer, *Practical Astronomy* (Third Edition) (Wiley).
The American Nautical Almanac for 1932 (Eastern Service Supply Co.).

317b. **Statistics.**
2 hours per week: 1 credit.
Prerequisites: Mathematics 200a-214b.

Text-book: Gavett, *First Course in Statistical Method* (McGraw-Hill).

400b. **Vector Analysis.**
2 hours per week: 1 credit.
Prerequisites: Mathematics 200a-214b.

Text-book: J. G. Coffin, *Vector Analysis* (Wiley).
References: Gibbs-Wilson, *Vector Analysis* (Yale University Press).
Brand, *Vectorial Mechanics* (Wiley).

402a. **Advanced Theory of Conic Sections:** study of conics by abridged notations; points and lines at infinity; Pascal's and Brianchon's Theorems; parametric equations of conics; envelopes; harmonic and anharmonic properties of ranges and pencils related to conics; projective properties of conics; involution, polar reciprocation, applications.
2 hours per week: 1 credit.
Prerequisites: Mathematics 200a-214b.

Text-book: Salmon, *Conic Sections* (Longmans).

404a. **Advanced Calculus:** selected topics.
2 hours per week: 1 credit.
Prerequisites: Mathematics 200a-214b.

References: Williamson, *Integral Calculus* (Longmans).
Byerly, *Integral Calculus* (Ginn).
Goursat-Hedrick, *Mathematical Analysis, Vol. I* (Ginn).

406. **Theory of Functions of a Complex Variable.**
2 hours per week: 2 credits.
Prerequisites: Mathematics 200a-214b.

Text-books: Townsend, *Functions of a Complex Variable* (Holt).
Fiske, *Functions of a Complex Variable* (Wiley).

407a. **The Mathematics of Finance.**
2 hours per week: 1 credit.
Prerequisites: Mathematics 200a-214b.

Text-book: Rietz, Crathorne and Rietz, *Mathematics of Finance* (Holt).

408. **History of Mathematics.**
1 hour per week: 1 credit.
Text-books: Cajori, *A History of Mathematics* (Macmillan).
Fink, *A Brief History of Elementary Mathematics* (Open Court).

417b. **The Mathematics of Life Insurance**: the mortality table; probabilities of life; annuities; expectations of life; the law of mortality; life insurance premiums; policy reserves.
2 hours per week: 1 credit.
Prerequisites: Mathematics 307a and 407a.
Text-books: Rietz, Crathorne and Rietz, *Mathematics of Finance* (Holt).
Spurgeon, *Life Contingencies* (Macmillan).

422b. **Higher Plane Curves**: inverse curves; pedal curves; reciprocal polars; order and class of a curve; Joachamsthal's method of investigating singularities; multiple points; tangents and pseudo-tangents; kth polars and polar k-thics; deficiency; Plücker's numbers; residuation; genesis and properties of various plane curves.
2 hours per week: 1 credit.
Prerequisites: Mathematics 200a-214b.
References: Salmon, *Higher Plane Curves.*
Williamson, *Differential Calculus* (Appleton).
Williamson, *Integral Calculus* (Longmans).

Courses Leading to the Degree of M.A.

A selection from the following courses will be offered from time to time to suit the qualifications of candidates:

500. Theory of Numbers.
501. Synthetic Projective Geometry.
502. Modern Analytic Geometry.
504. Elliptic Integrals.
505. Celestial Mechanics.
506. Theory of Functions of a Real Variable.
507. Advanced Actuarial Science.
510. Theory of Invariants.
514. Projective Differential Geometry.
517. Insurance Problems.
520. Theory of Algebraic Functions.

DEPARTMENT OF PHILOSOPHY

University College

DESMOND H. SMYTH, M.A.,	Assistant Professor
REV. G. B. SAGE, M.A., D.D., LL.D.,	Lecturer
*A. RUTH LEWIS, M.A.,	Lecturer

Alma College

REV. E. E. LONG, B.D.,	Lecturer

Assumption College

REV. E. J. TIGHE, M.A.,	Professor
REV. E. J. WELTY, M.A., PH.D.,	Professor
REV. P. J. BART, M.A.,	Lecturer

Ursuline College

REV. J. H. POCOCK, B.A.,	Professor
REV. F. J. BRENNAN, S.T.L.,	Associate Professor
REV. J. B. FFOULKES, J.C.D.,	Lecturer
REV. W. T. FLANNERY, S.T.D.,	Lecturer
REV. L. M. FORRISTAL, B.A.,	Lecturer

Waterloo College

REV. H. HENKEL,	Associate Professor

Note—Students taking courses in this Department which involve laboratory work will be required to make a deposit of two dollars to cover supplies and breakages. A refund of any surplus will be made at the end of the college year.

20. **Logic**: Formal and Inductive; optional for students in the second year of the General Course.

1 hour per week: 1 credit.

Text-books: Wellon and Manahan, *Intermediate Logic.*
Sellars, *Essentials of Logic.*

21. **Introduction to Psychology**: an elementary course in Human Psychology. Nervous equipment, sensory and motor equipment, sensation and perception, instinct and emotion, habit formation, learning, memory, intelligence and reasoning are among the topics considered. Optional for second year students in the General Course.

2 lectures, 1 laboratory hour per week: 2 credits.

Text-book: Dashiell, *Fundamentals of Objective Psychology.*

* Second term, 1930-31.

30. **Introduction to Philosophy**: the general problems and divisions of Philosophy. Greek Philosophy from Thales to Plotinus, with special reference to Socrates, Plato and Aristotle. Lectures, readings and essays. Prescribed for students in the third year of the General Course.

2 hours per week: 2 credits. (At Assumption College 3 hours, 3 credits).

Text-book: Warbeke, *The Searching Mind of Greece.*

31. **Ethics**: the history of early modern ethics up to Kant; theory of obligation; applied ethics; prescribed for third year students in the General Course.

1 hour per week: 1 credit.

Text-book: Mackenzie, *Manual of Ethics* (University Tutorial).

34b. **Abnormal Psychology**: abnormalities of sensation, perception, association, memory and emotion as leading up to the discussion of disorders of personality.

2 hours per week, second term: 1 credit.

Text-book: Morgan, *The Psychology of Abnormal People.*

37a. **Mental and Educational Measurement**: a course dealing with the methods and tests used in measuring intelligence and achievement and the interpretation of scores.

2 hours per week, first term: 1 credit.

39a. **Ethics** (equivalent of 31): a general course in Ethics in which the Christian point of view will be maintained and emphasized, while the value of the study of Philosophic Ethics will be pointed out. Offered in Waterloo College only.

2 hours per week, first term: 1 credit.

Text-books: Mackenzie, *Manual of Ethics.*
Sidgwick, *History of Ethics.*
Keyser, *General Ethics.*

39b. **Logic** (equivalent of 20): an introductory course in the principles of Deductive and Inductive Logic. Offered in Waterloo College only.

2 hours per week, second term: 1 credit.

Text-book: Creighton, *An Introductory Logic.*

40. **History of Modern Philosophy**: from about 1600 A.D., to the present time. Lectures, readings and reports. Optional for fourth year students in the General Course.

2 hours per week: 2 credits. (At Assumption College, 3 hours, 3 credits).

Text-book: Weber and Perry, *History of Philosophy.*

45. **Metaphysics:** the soul; false theories on the nature of the soul; union of soul and body: theory of Plato; occasionalism; pre-established harmony; Aristotelico-Scholastic doctrine; theories of emanation; traducianism; evolution theory; creation doctrine. Offered in Ursuline College only.

1 hour per week: 1 credit.

Text-book: Maher, *Psychology*.

Honour Courses

Offered in University College only.

220. **Logic:** identical with 20.

221. **Introduction to Psychology:** identical with 21.

330. **Introduction to Philosophy:** identical with 30.

331. **Ethics:** identical with 31.

332a. **Comparative Psychology:** a comparative study of the intelligence and learning ability of the lower animals; the role of instinct in insect and bird life; the limits of training in mammals; the mentality of the higher apes; evidence of intellectual development in primitive man. Optional for students in the third year of the General Course. Not given in 1931-32.

2 hours per week, first term: 1 credit.

333b. **Child Psychology:** the development of the child is followed from birth until school age; early training, learning to talk, play, memory, imagination, drawing and music are discussed. Optional for students in the third year of the General Course.

2 hours per week, second term: 1 credit.

334b. **Abnormal Psychology:** identical with 34b.

335. **Educational Psychology:** the application of Psychological principles to education. There will be experiments illustrating the laws and conditions governing memory and the learning process. The student will also have the opportunity of becoming acquainted at first hand with the various mental and educational tests in general use. Optional for students in the third year of the General Course. Not given in 1931-32.

2 hours per week: 2 credits.

336. **Applied Psychology:** psychology as applied in

various fields: employment, vocational guidance, advertising, social work, law, medicine, etc. Optional for students in the third year of the General Course.

2 hours per week: 2 credits.

337a. **Mental and Educational Measurements**: identical with 37a.

440. **History of Modern Philosophy**: identical with 40.

441. **Experimental and Physiological Psychology**: this course consists entirely of laboratory work and demonstrations. In the second term students will be required to choose some topic for special investigation. Optional for fourth year students in the General Course.

4 hours laboratory per week: 2 credits.

Prerequisite: Philosophy 21 or 335.

442. **Personality, Character and Temperament**: an advanced course in the analysis and measurement of personality.

3 hours per week: 3 credits.

Prerequisites: Philosophy 21, 337a.

443. **Experimental Investigation in Psychology**: the student will be assigned a problem. He will be required to devise his own technique, carry on his experiments under supervision, and report his results in proper form.

6 hours per week: 4 credits.

Prerequisites: Philosophy 21, 337a, 441.

Honour Courses

Offered in Assumption College and Ursuline College only.

200. **Elementary Psychology**: a course in Elementary Psychology: Sensation; Perception; Imagination; Instinct; Memory; Sensuous appetites and feelings; Intellect: intellect and sense; intellectual cognition; theories of conception: process of intellectual development; Rational appetite; necessary voluntary acts; free acts; emotions and sentiments.

3 hours per week: 3 credits.

Text-book: S. A. Lortie, *Elementa Philosophiae Christianae.*

220. **Logic**: a course in Formal Logic; the three operations of the mind; the idea; the term; various kinds of idea; defini-

tion; division; categories and predicables; judgment; the propositions, various kinds, their nature and division: Reasoning; deductive and inductive: the Syllogism; rules, modes and figures; the use of the syllogism; Fallacies.

2 hours per week: 2 credits.

Text-book: S. A. Lortie, *Elementa Philosophiae Christianae.*

230. **History of Philosophy**: a course in Greek Philosophy. The history of Philosophy in general; Oriental Philosophy; the transition from superstition to Philosophy; the progress of Greek thought from its birth among the Ionians to its perfection in Plato and Aristotle; The Post-Aristotelian Philosophy; Graeco-Oriental Philosophy.

2 hours per week: 2 credits.

Text-book: William Turner, *History of Philosophy.*
References: J. Burnet, *Greek Philosophy.*
W. T. Stace, *A Critical History of Greek Philosophy.*
Windleband, *History of Philosophy.*

300. **Metaphysics: Logic.**

Ontology: being; essence; existence; the transcendental qualities of being; substance; accident; properties of being; nature; subsistence; person; time; space; cause and effect; quantity; quality; relation.

Cosmology: theories of the property and constitution of matter; scholastic theory of matter and form; critical examination of the atomic and dynamic theories; properties of physical substances; laws of nature; miracles.

Criteriology: nature and existence of certitude; logical truth; criteria; the senses and consciousness as means of certitude; objectivity of our concepts.

5 hours per week: 5 credits.

Text-book: S. A. Lortie, *Elementa Philosophiae Christianae, Vol. II.*

320. **Ethics**: General: the last end of man; its nature and attainment; morality of human acts; the norm of morality; law, eternal, natural and positive, in relation to morality; right reason: conscience; influence of passions on moral acts; habits; virtues; vices; general notions of right and duty.

3 hours per week: 3 credits.

Text-book: S. A. Lortie, *Ethica et Philosophia Moralis.*

330. **History of Philosophy**: Patristic and Mediaeval.

Patristic: Heretical systems; Ante-Nicene Fathers; Post-Nicene Fathers.

Mediaeval: Arabian, Jewish and Scholastic Philosophy; formation, culmination and decline.

3 hours per week: 3 credits.

Text-book: William Turner, *History of Philosophy.*
References: M. De Wulf, *History of Mediaeval Philosophy.*
E. Gilson, *Etudes de Philosophie Médiaévale.*
H. O. Taylor, *The Mediaeval Mind.*

400. **Theodicy: Rational Psychology.**

Theodicy: the idea of the Divine Being; proof of the existence of God; the divine attributes; the immanent operations of God; the transient operations of God; the unicity of God.

Rational Psychology: life; plant life; animal life; origin of species; Mendelism; rational life; the human soul and its essential qualities; union of soul and body; origin and destiny of the human soul.

5 hours per week: 5 credits.

Text-book: S. A. Lortie, *Elementa Philosophiae Christianae, Vol. II.*

420. **Ethics**: Special: duties and rights. The individual: his duties of justice and charity to God, his neighbor and himself. The family: marriage; polygamy; divorce; monogamy, celibacy; relations between parents and children. The state: origin and forms of civil society; origin of civil power; forms of government; rights and duties of the state; citizenship.

3 hours per week: 3 credits.

Text-book: S. A. Lortie, *Elementa Philosophiae Christianae, Vol. III.*

430. **History of Philosophy**: Modern: the history of modern Philosophy from Descartes to the present; the Idealistic Movement; German Transcendentalism; Evolutionism; Positivism; Rationalism; Pragmatism.

3 hours per week: 3 credits.

Text-book: Turner, *History of Philosophy.*
References: Rand, *Modern Classical Philosophers.*
Windleband, *History of Philosophy.*
Erdman, *History of Philosophy.*
Royce, *The Spirit of Modern Philosophy.*

DEPARTMENT OF PHYSICAL EDUCATION

University College

J. H. CROCKER, M.P.E. (Men), Director
BARBARA DICKINSON, C.P.E. (Women), Assistant

Alma College

DOROTHY BURRELL, Instructor

Assumption College

REV. W. P. MCGEE, M.A., Instructor

Ursuline College

NELLIE TOPLEY-THOMAS, Assistant

Waterloo College

ALVIN PAULI (Men), Assistant
ELIZABETH SPOHN (Women), Assistant

Physical Examinations

A physical examination by practising physicians, under the supervision of the Department of Physical Education, is required for students, men and women, of all years. Physical examinations will be made by appointment during registration week. Students who have registered and who have not been examined during the prescribed period will be required to pay $1.00 for late examination.

No medical fees will be paid from the funds of the Department of Physical Education unless the obligation has been sanctioned in advance by the Director of Physical Education or the department physicians.

Student Health Insurance

All students registered in any of the three faculties of the University proper, are assessed $5.00 as a Health Insurance fee. The insurance covers certified claims rendered in acceptable form and covering physicians' and surgeons' fees, hospital fees, nursing fees and ambulance charges arising from any accident or emergency sickness. The liability of the insurance company shall not exceed $100 in respect of any one student during the scholastic year.

Students registered in the affiliated colleges resident in London and St. Thomas may have the same privilege.

Timetable

Autumn Activities: September to November

For Men:

Rugby, each day, 4 to 6 p.m.
Track, Monday and Wednesday, 4.45 to 5.45 p.m.
Soccer, Tuesday and Thursday, 4.45 to 5.45 p.m.
C. O. T. C., Wednesday, 7 to 9.15 p.m., begins Oct. 1st., and Monday, 4 to 6.15 p.m., begins October 6th.
Horseback Riding, to be arranged.

For Women:

Field Hockey, Monday and Wednesday, 4.30 to 5.30 p.m.
Track, Tuesday and Thursday, 4.30 to 5.30 p.m.
Tennis, Monday, Tuesday, Wednesday and Thursday, 4.30 to 5.30 p.m.
Horseback Riding, to be arranged.

Winter Activities: November to April

For Men:

Gymnastics, Monday and Thursday, 5.00 to 6.00 p.m.
Boxing and Wrestling, Monday and Thursday, 5.00 to 6.00 p.m.
C.O.T.C., Wednesday, 7 to 9.15 p.m.
Hockey, basketball, life-saving and swimming, to be arranged.

For Women:

Gymnastics, Monday and Wednesday, 4.30 to 6.00 p.m.
Basketball, Tuesday and Thursday, 4.30 to 6.00 p.m.
Badminton and skating, to be arranged.

Note: Where weather does not permit outdoor work, students will report at their dressing-rooms as usual for information regarding the particular session concerned.

Electives

A student may elect one from each of the following Autumn and Winter groups within the Physical Education program, and if his performance justifies it, he will receive credit for the prescribed or elective work of his year.

Autumn:	University Rugby University Soccer University Track Horseback Riding Military Training, C.O.T.C.	Men

University Track
University Field Hockey } Women
University Tennis
Horseback Riding

Winter: University Boxing and Wrestling
Military Training, C. O. T. C.
University Hockey
University Basketball
University Gymnastics
First Aid } Men

University Hockey
University Basketball
University Gymnastics
University Badminton } Women
Skating

Other activities from which a student may elect his Physical Training Course will be decided upon from time to time by the Committee on Physical Education.

Military Training

The course as approved by the Military Committee is as follows:

First Year, Elementary Theory and preliminary practical training.

Second Year, Theoretical and practical training leading up to Certificate "A" Infantry. Medical Students may join "B" Company and take Certificate "A" Medical.

Third year, Certificates "B," Infantry and Medical.

Fourth Year, Training as Specialists.

The military training of the first two years consists of two parts: theoretical, 1 hour per week; practical, 2 hours per week.

Theoretical: This consists of lectures on Organization and Administration, Duties, Military Law, Principles of War and Characteristics of Fighting Troops, Infantry in Battle, Protection, Infantry in Attack and Defence, Information, Movements by Land and Sea, Quarters, Messages, Orders and Appreciations and Topography. The medical company will receive special lectures.

Practical: Platoon and Extended Order Drill, Company Drill, Various Formations used in Attack and Defence, and Musketry. "B" company, medical services.

The work of the C. O. T. C., offers an unusual opportunity to students to pass examinations for lieutenants' and captains' certificates. The examinations are conducted by the staff of the Imperial War Office, and the certificates are standard throughout the British Empire.

Rifle Association: all members of the University Contingent are entitled to the privilege of the Rifle Association.

Credits

Students securing a First Grade University Colour will be given credit for P. T. 10, 11, 20 or 21.

Students securing Second Grade University Colour will be given one term's credit for P. T. 10, 11, 20 or 21.

Students will be excused from Physical Training 10, 11, 20 or 21, while practising for University teams.

Students must present doctor's certificates to be excused for failure to attend regular classes for P. T. 10, 11, 20 or 21.

Students must attend ninety per cent. of the training hours for credit.

10. **Physical Training for Women**: required of all women students of the first year: an elective autumn activity and an elective winter activity. The gymnastics include Swedish gymnastics, calisthenics, simple folk and artistic dancing, basketball, etc.

2 hours per week: 1 credit.

11. **Physical Training for Men**: required of all men in the first year. This course consists of one elective autumn activity and one elective winter activity.

2 hours per week: 1 credit.

20. **Physical Training for Women**: required of all women students in the second year: an elective autumn activity and an elective winter activity. The gymnastics include Swedish gymnastics, calisthenics, advanced folk and artistic dancing, basketball, etc.

2 hours per week: 1 credit.

21. **Physical Training for Men**: required of all men in the second year. This course consists of one elective autumn activity and one elective winter activity.

2 hours per week: 1 credit.

30–40. **Advanced Physical Training for Women**: optional for women of the third and fourth years. Open only to those who have had Physical Training 10 and 20. This course consists of one elective autumn activity and one elective winter activity.

2 hours per week each year: 1 credit each year.

31–41. **Advanced Physical Training for Men**: optional for men of the third and fourth years. Open only to those who have had Physical Training 11 and 21. This course consists of one elective autumn activity and one elective winter activity.

2 hours per week each year: 1 credit each year.

First Aid to the Injured

Elementary and advanced courses, seven lectures each, with an examination for certificate in St. John Ambulance Association. A winter option for Physical Training 11.

1 hour per week: ½ credit.

Text-book: *St. John Ambulance Hand Book.*

DEPARTMENT OF PHYSICS

University College

R. C. DEARLE, M.A., PH.D.,	Professor
R. L. ALLEN, M.A.,	Associate Professor
A. WILLENA FOSTER, M.A.,	Assistant Professor
A. M. I. A. W. DURNFORD, M.A.,	Instructor
GAR ELSON, M.A.,	Research Assistant
DOROTHY BENNETT, M.A.,	Demonstrator
E. JARMAIN, B.A.Sc.,	Demonstrator
L. SIMMONS, B.A.,	Demonstrator
F. W. PYE,	Instrument Maker

Alma College

MRS. ADALINA JEFFREY, B.A.,	Instructor

Assumption College

REV. T. A. MACDONALD, M.A.,	Professor

All Students taking laboratory work in Physics must make a deposit of five dollars with the Bursar to cover breakage; a refund of any surplus will be made at the end of the college year.

10. **Mechanics and Heat**: an elementary course covering the general principles, presented from a non-mathematical point

of view. Optional for students in the General Course.

2 lectures and 3 laboratory hours per week: 3 credits.

Text-book: Randall, Williams and Colby, *General College Physics.*

20. **Electricity, Sound and Light:** supplementary to Physics 10, but requiring more mathematical knowledge.

2 lectures, 3 laboratory hours per week: 3 credits.

Prerequisites: Physics 10, Mathematics 10a and 12b, and 23b.

Text-book: Randall, Williams and Colby, *General College Physics.*

30. **Physical Measurements:** lectures on laboratory methods and practical work with emphasis on precision. Training is given in contracted methods of calculation, graphical solution of problems, also in some of the simpler laboratory arts, such as glass-blowing, etc.

3 laboratory hours per week: 1 credit.

Prerequisite: Physics 20.

Text-book: Goodwin, *Precision of Measurements.*

Honour Courses

101a. **Mechanics:** fundamental laws of statics and dynamics with applications to machines, elasticity, rotational motion, periodic motion; laws of liquids and gases; surface tension.

2 lectures, 3 laboratory hours per week, first term: 1½ credits.

Text-book: Duncan and Starling, *Dynamics.*

102b. **Heat:** fundamental laws, with applications, of thermometry, calorimetry, vapor pressure, hygrometry, conductivity, radiation; first and second laws of thermodynamics.

2 lectures, 3 laboratory hours per week, second term: 1½ credits.

Text-book: Hart, *An Introduction to Advanced Heat.*

110. **Physical Measurements:** similar to 30; prescribed for students in the first year of the Mathematics and Physics course.

3 laboratory hours per week: 1 credit.

Text-book: See Physics 30.

201. **Sound and Light:** lectures on the principles involved, including an elementary mathematical treatment of reflection and refraction of light, mirrors and lenses, lens systems, dispersion, interference, diffraction, polarisation; wave-motion, propagation of sound waves, measurement of wave-length,

velocity and pitch; musical scales, standards of pitch, characteristics of musical sounds, speech.

2 lectures, 3 laboratory hours per week, first term: 1 lecture, 3 laboratory hours per week, second term: 3 credits.

Text-books: Poynting and Thomson, *Text-book of Physics, Vol. II.* Edser, *Light for Students.*

202. **Electricity:** lectures on the principles involved, including an elementary mathematical treatment of magnetic and electric fields, measuring instruments, electromagnetism, dynamos and motors, conduction through gases.

1 lecture, 3 laboratory hours per week: 2½ credits.

Text-book: R. W. Hutchinson, *Intermediate Text-book of Magnetism and Electricity* (Tutorial Press).

220. **Elements of Mechanics:** a mathematical treatment of the principles of statics and dynamics with numerous applications of physical principles.

2 lectures per week: 2 credits.

Text-book: Campbell, *An Introduction to Mechanics.*

300. **Particle Dynamics:** an advanced course in the dynamics of a particle, making use of calculus and differential equations.

2 lectures per week: 2 credits.

Text-book: Loney, *Dynamics of a Particle and of Rigid Bodies* (Cambridge).

301. **Geometrical and Physical Optics:** a more advanced treatment of theoretical and applied optics, including an historical treatment of the development of the modern conceptions of light.

2 lectures, 6 laboratory hours per week: 5 credits.

Text-book: Houston, *A Treatise on Light.*

302a. **Electron Theory of Matter and Electromagnetic Theory of Light:** a study of the development of Maxwell's equations for the electromagnetic field, with applications to various magneto-optical phenomena.

2 lectures, per week: 1 credit.

Text-book: As for 301.

303. **Properties of Matter and Heat:** a mathematical treatment of periodic motion, gravitation, elasticity, surface tension, osmosis, changes of state, laws of gases.

2 lectures, 3 laboratory hours per week: 3 credits.

Text-book: Edser, *General Physics.*

304b. **Fourier Series:** an introduction to Fourier's an-

alysis of wave-motion, with applications to the theory of heat conduction, and to the vibrations of plucked strings.

2 lectures per week: 1 credit.

References: Byerly, *Fourier Series and Spherical Harmonics.*
Ingersoll and Zobel, *Mathematical Theory of Heat Conduction.*

400. **Electricity and Magnetism**: an advanced course; a discussion of the general phenomena of static electricity and magnetism; an introduction to the theory of potential and electromagnetic induction.

2 lectures per week: 2 credits.

Text-book: Starling, *Electricity and Magnetism for Advanced Students.*

401. **Recent Advances in Physics**: a course on selected topics (with outside reading), including atomic theory, radioactivity, conduction through gases, magneto-optics, etc.

2 lectures per week: 2 credits.

References: Richardson, *Electron Theory of Matter.*
Rutherford, *Radioactive Substances and their Transformations.*
Zeeman, *Magneto-Optics.*
Thomson, *Positive Ray Analysis.*
Current Periodicals.

402. **Elementary Thermodynamics and Theory of Gases**: a treatment of the laws of thermodynamics, heat engines, reversible cycles, radiation, energy distribution.

2 lectures per week: 2 credits.

Text-book: Birtwhistle, *Thermodynamics.*

403. **Theory of Electricity**: an intermediate course, not essentially mathematical, consisting of topics selected especially for their historical and practical importance, including electrolysis, dissociation, radioactivity, elementary theory of alternating currents, generation and distribution of electrical energy, etc. Prescribed for third or fourth year students in the Honour Science Course. Offered in alternate years.

2 lectures, 3 laboratory hours per week: 3 credits.

Text-book: J. A. Crowther, *Ions, Electrons and Ionizing Radiations.*

404. **Laboratory Course**: designed as an accompaniment to the lecture work of the fourth year. Special emphasis is laid upon individuality of work and resourcefulness. As far as possible, training is given in research methods.

9 laboratory hours per week: 3 credits.

408. **Seminar**: preparation and reading of articles from current magazines as well as historical essays. Prescribed for fourth-year students and optional for all students in the Mathematics and Physics course.

1 hour per week: 1 credit.

DEPARTMENT OF PUBLIC HEALTH AND BACTERIOLOGY

University College

A. J. SLACK, PH.C., M.D., D.P.H., Professor

Assumption College

C. J. HEMOND, M.B., Lecturer

Waterloo College

FRANK F. ZWICK, M.D., Lecturer

10. A series of lectures and demonstrations is given to students of the first year dealing with public health, preventive medicine and hygiene, and describing the essentials of bacteriology so far as applicable to modern life. Modern methods of handling and preventing infectious diseases; the sanitation of water, milk, food; flies and contact; the physiological principles involved in and the significance of ventilation, foods and feeding; water supplies, sewage disposal; vital statistics, infant mortality, etc., are included. All subjects are so treated from a practical standpoint as to outline the principles and show the general methods based upon them. Technicalities are avoided, the aim being not to train public health specialists, but to give that information which every educated person should have concerning the great advances of modern public health in order that he or she may be able to understand and fit in with them.

1 hour per week: 1 credit.

DEPARTMENT OF RELIGIOUS KNOWLEDGE

University College

*REV. R. DAVIDSON, M.A., PH.D., D.D.,	Professor
**REV. JOHN DOW, M.A., D.D.,	Professor

Assumption College

REV. W. P. MCGEE, M.A.,	Professor

Ursuline College

VERY REV. A. P. MAHONEY,	Professor
REV. M. A. BRISSON,	Lecturer

Waterloo College

REV. F. B. CLAUSEN,	Professor
REV. C. H. LITTLE, B.A., S.T.D., D.D.,	Professor
REV. E. NEUDOERFFER, D.D.,	Professor

Offered at University College only.

25a. **Religious Knowledge**: prophets of the Old Testament, the main facts about the experience and the teaching of the Prophets.
2 hours per week: 1 credit.

25b. **Religious Knowledge**: the background of the New Testament, with a special study of the Gospels.
2 hours per week: 1 credit.

35a. **Religious Knowledge**: how to understand the Old Testament, the main points in the history, the literature and the religious experience of the Hebrew people.
2 hours per week: 1 credit.

35b. **Religious Knowledge**: the Rise of the Early Church, Acts of the Apostles, and earlier Epistles.
2 hours per week: 1 credit.

A one credit course in Old Testament history and literature is given at Alma College.

Offered at Assumption College only.

10 and 11. **Religious Knowledge**: Lectures, prescribed reading. Revelation in general; Pre-christian revelation; Chris-

*Visiting professor, first term 1930-31.
**Visiting professor, second term 1930-31.

tian revelation; Foundation and Marks of the Church; Nature of God; The Trinity; Creation; Redemption.

2 hours per week: 2 credits.

Text-book: Wilmers, *Handbook of the Christian Religion.*

20 and 21. **Religious Knowledge**: A course on the dogmatic and moral teachings of the Catholic Church; Grace, The Sacraments, Christian Morality, Basis of Morality, Duties towards God, Duties towards our neighbor, Capital and Labor. Lectures and prescribed reading.

2 hours per week: 2 credits.

Text-book: Wilmers, *Handbook of the Christian Religion.*

30. **Apologetics**: lectures and prescribed reading. De vera religione; religion in general; Revealed Religion; Divinity of the Christian Religion.

2 hours per week: 2 credits.

Text-book: A. Tanquerey, *Synopsis Theologiae Dogmaticae, Vol. I.*

31. **An introductory course on the Bible**: lectures. Inspiration; methods of interpretation; canonics; Biblical history.

1 hour per week: 1 credit.

References: Gigot, *General Introduction to the Study of Scripture.*
Seisenberger, *Practical Handbook of the Study of the Bible.*

40. **Apologetics**: lectures and prescribed reading. De Ecclesia Christi; Divine institution; constitution. De Fontibus Revelationibus; scripture; tradition; modernism; present-day religious conditions.

2 hours per week: 2 credits.

Text-book: A. Tanquerey, *Synopsis Theologiae Dogmaticae, Vol. I.*

41. A course covering the broad outlines of Church History. Conversion of the Empire; Genius of the Middle Ages; the Renaissance and the Reformation; the Church and Nationalism.

1 hour per week: 1 credit.

References: Kurth, *The Church at the Turning Points of History.*
Birkhaeuser, *History of the Church.*
Beloc, *Europe and the Faith.*
Pastor, *History of the Popes.*

Offered at Ursuline College only.

10. **Apologetics**: lectures, prescribed reading and essays. The Existence, Nature and Attributes of God; the nature of man; Natural Religion; Revelation; the Divinity of Christ.

1 hour per week: 1 credit.

Text-book: Sheehan, *Apologetics and Catholic Doctrine.*

11. **Religious Knowledge**: Old Testament History; Creation to the disruption of Solomon's Kingdom; biblical languages; biblical archaeology; canonics.

1 hour per week: 1 credit.

Text-books: The Old Testament.
Hart, *Manual of Bible History.*

20. **Apologetics**: lectures, prescribed reading and essays. The Divinity of Christian Religion; Non-Christian Religions; the Christian Church; Government of the Church; relations between Church and State.

1 hour per week: 1 credit.

Text-book: Sheehan, *Apologetics and Catholic Doctrine.*

21. **Religious Knowledge**: Old Testament History, disruption of Solomon's Kingdom to the Birth of Christ; the prophetical office; Messianic prophecies; Jewish sects.

1 hour per week: 1 credit.

Text-books: The Bible.
Hart, *Manual of Bible History.*

30. **Christian Doctrine**: lectures, prescribed reading and essays. The Authority of the Church; Faith; the Divine Essence; the Blessed Trinity; the Creation; the Incarnation; the Redemption.

1 hour per week: 1 credit.

Text-book: Sheehan, *Apologetics and Catholic Doctrine.*

31. **Church History**: lectures, prescribed reading and essays. Christian Antiquity and Mediaeval Church History, from the Birth of Christ to the year 1500 A.D.

2 hours per week: 2 credits.

Text-book: Birkhaeuser, *History of the Church.*

40. **Christian Doctrine**: lectures, prescribed reading and essays. God, the Sanctifier; the Sacramental System; the Last Things.

1 hour per week: 1 credit.

Text-book: Sheehan, *Apologetics and Catholic Doctrine.*

41. **Church History**: lectures, prescribed reading and essays. The Reformation Period and Modern Church History.

2 hours per week: 2 credits.

Text-book: Birkhaeuser, *History of the Church.*

Offered at Waterloo College only.

19. A thorough study of the life of Jesus based on the Synoptic Gospels.

1 hour per week: 1 credit.

Text-book: The Bible.

29. A study of the Book of Acts, with special attention to the life and epistles of St. Paul.

1 hour per week: 1 credit.

Text-book: The Bible.

39. A survey of the history and literature of the Prophets prior to The Exile.

2 hours per week: 2 credits.

Text-book: The Bible.

47. A Summary of the Christian Faith, setting forth the fundamental doctrines of the Sacred Scriptures from the standpoint of Evangelical Christianity.

2 hours per week: 2 credits.

Text-books: Jacobs, *A Summary of Christian Faith.*
Jacobs, *Elements of Religion.*

48. **Church History:** lectures, prescribed reading and essays. The following parts will be given in alternate years, Part 2 in 1931-32.

1. Ancient and Mediaeval Church History;
2. The Reformation Period and Modern Church History.

2 hours per week: 2 credits.

49. **Hebrews and Pastoral Epistles.**

1 hour per week: 1 credit.

DEPARTMENT OF ROMANCE LANGUAGES

University College

M. E. BASSETT, M.A.,	Professor
W. E. COLLIN, L.ès L., M.A.,	Assistant Professor
A. DOROTHY TURVILLE, PH.D.,	Assistant Professor
H. E. JENKIN, B.A.,	Instructor
FRANCES K. MONTGOMERY, M.A., DR. UNIV. PAR.,	Instructor

Alma College

MRS. HARRIET DOBSON, B.A.,	Instructor
EDITH C. JAMES, B.A.,	Instructor

Assumption College

REV. P. J. BART, M.A.,	Professor
REV. E. J. LAJEUNESSE, M.A.,	Associate Professor
C. WATSON, B.A.,	Lecturer

Ursuline College

M. M. ST. ANNE, M.A.,	Professor
M. M. MARIE, M.A.,	Instructor

Waterloo College

ELEANOR DOHERTY, M.A.,	Assistant Professor
EARLE C. SHELLY, B.A.,	Assistant Professor

FRENCH

General course students may, with the consent of the Head of the Department, elect French 301 and 401 as optional credits towards graduation.

10. **Intermediate French**: grammar, dictation, conversation, translation into French, and some training in literary appreciation.

3 hours per week: 3 credits.

Text-books: Victor Hugo, *Les Misérables* (Scribner).
Labiche, *La Grammaire* (Ginn).
Labiche, *Le Baron de Fourchevif* (Ginn).
Doillet, *Papassier s'en va-t-en guerre* (Ginn).
Coppée, *On Rend l'argent* (Ginn).
Molière, *Le Bourgeois Gentilhomme* (Ginn).
Fraser and Squair, *New Complete French Grammar* (Copp, Clark).

20. **Advanced French**: dictation, conversation and prose composition.

Prerequisite: French 10.
3 hours per week: 3 credits.

Text-books: Romains, *Knock* (Century).
La Brête, *Aimer Quand Même* (Heath).
Dondo, *Pathelin* (Heath).
Pérochon, *Livre des Quatre Saisons* (Century).
Brown, *Selections from Maurois* (Nelson).
Bawr, *Michel Perrin* (Hachette).
Racine, *Les Plaideurs* (Cambridge).
Fraser and Squair, *New Complete French Grammar* (Copp, Clark).
Coindreau and Lowe, *French Composition Book* (Holt).

30. **Outline of French Literature** (origins to 1700 A.D.): dictation, conversation and prose composition. The students registered in Secretarial Science and Business Administration will take commercial prose.
Prerequisite: French 20.
3 hours per week: 3 credits.

Text-books: Des Granges, *Histoire de la Litterature Française* (Hatier).
Des Granges, *Morceaux Choisis* (Hatier).
Rieu, *La Chanson de Roland* (Nelson).
Corneille, *Brittanicus* (Holt).
Molière, *L'Avare* (Holt).
Racine, *Phèdre* (Heath).
Coindreau and Lowe, *French Composition Book* (Holt).

35. **Scientific French**: a course in the reading, in class, of scientific French, from text-books or journals, supplemented by the reading of one text in the special field of research of each student.
Prerequisite: French 10.
1 hour per week: ½ credit.

40. **Outline of French Literature** (1700 to present): conversation and free composition. The students registered in Secretarial Science and Business Administration will take 2 hours of the regular course and 1 hour commercial French.
Prerequisite: French 30.
3 hours per week: 3 credits.

Text-books: Des Granges, *Histoire de la Litterature Française* (Hatier).
Des Granges, *Morceaux Choisis* (Hatier).
Lesage, *Turcaret* (Heath).
Ritchie, *Voltaire* (Nelson).
Prévost, *Manon Lescaut* (Oxford).
Saint-Pierre, *Paul et Virginie* (Holt).
Hugo, *Ruy Blas* (Heath).
Musset, *On ne badine pas avec l'amour* (Oxford).
Dow and Skinner, *Quelques Contes des Romanciers Naturalistes* (Heath).
Romains, *Knock* (Century).
Rostand, *Cyrano de Bergerac* (Oxford).

45. **Scientific French**: an advanced course in the reading, in class, of scientific French from text-books or journals, supplemented by the reading of one text in the special field of research of each student.
Prerequisite: French 35.
1 hour per week: ½ credit.

Honour Courses

100. **Introduction to French Literature**: prose composition, one hour per week. Prescribed for honour courses in Modern Languages and Romance Languages and optional for honours in English and History.

4 hours per week: 4 credits.

Text-books: Romains, *Knock* (Century).
La Brête, *Aimer Quand Même* (Heath).
Lesage, *Le Flibustier Beauchêne* (Century).
Dow and Skinner, *Quelques Contes des Romanciers Naturalistes* (Heath).
Hugo, *Ruy Blas* (Heath).
Balzac, *Le Colonel Chabert* (Century).
Saint-Pierre, *Paul et Virginie* (Holt).
Beaumarchais, *Le Barbier de Seville* (Heath).
La Fontaine, *Fables* (Holt).
Molière, *Le Bourgeois Gentilhomme* (Heath).
Racine, *Andromaque* (Ginn).

200. **The Literature of the Seventeenth Century**: lectures, reading, discussion and reports. Prescribed for honours in Modern Languages and Romance Languages; optional for Honour English and History.

Prerequisite: French 100.

3 hours per week: 3 credits.

201. **Prose Composition and Conversation.**

Prerequisite: French 100.

1 hour per week: 1 credit.

300. **The Literature of the Eighteenth Century**: lectures, reading, discussion, reports in French. Prescribed for Honour Modern Languages and Romance Languages; optional for Honour English and History.

Prerequisite: French 200.

3 hours per week: 3 credits.

301. **French Composition, Phonetics and Conversation.**

Prerequisite: French 201.

2 hours per week: 2 credits.

302. **French Civilization**: a background course for students of French. Required for Honour Romance Languages.

Prerequisite: French 200, or 30.

1 hour per week: 1 credit.

400. **The Literature of the Nineteenth Century**: lectures, reading and essays in French; prescribed for Honour Modern Languages and Romance Languages.

Prerequisite: French 300.

3 hours per week: 3 credits.

401. **Advanced Composition, Phonetics and Conversation.**
Prerequisite: French 301.
2 hours per week: 2 credits.

402a. **Phonology and Morphology of Old French:** lectures, translation, reports.
Prerequisite: French 302.
2 hours per week, one term: 1 credit.

402b. **The Literature of the Sixteenth Century:** lectures, translation, reports.
Prerequisite: French 402a.
2 hours per week, one term: 1 credit.

Courses Leading to the Degree of M.A.

500. Old French and Philology.
501. Advanced French Composition.
502. Contemporary French Poetry.
504. The Literature of French Canada.

ITALIAN

100. Grammar, pronunciation, translation of simple texts; prescribed for second year students in Honour Romance Languages.
3 hours per week: 3 credits.

Text-books: Russo, *Elementary Italian Grammar* (Heath).
Wilkins, *Italia* (Chicago Press).
Goldoni, *Il vero amico* (Heath).
Wilkins and Santelli, *Beginners' Italian Reader* (Heath).
Bowen, *Italian Reader* (Heath).

200. **Introduction to Italian Literature:** composition; prescribed for third year students in Honour Romance Languages. Not given in 1931-32.
Prerequisite: Italian 100.
3 hours per week: 3 credits.

SPANISH

100. **Elementary Course:** grammar, pronunciation, dictation, conversation, collateral reading, translation, memorization of short fables and poems. Prescribed for first-year students in Honour Romance Languages and optional for first and second year General Course.

Prerequisite: Complete Pass Junior Matriculation.
3 hours per week: 3 credits.

Text-books: Hills and Ford, *Spanish Grammar for Colleges* (Heath).
Dorado, *Espana pintoresca* (Ginn).
Camba, *La Rana Viajera* (Heath).
Alarcon, *El Capitân Veneno* (Heath).
Sierra, *Three One Act Plays* (Holt).

200. **Selected Masterpieces of Spanish Literature**: lectures, reading, translation, discussion and reports.
Prerequisite: Spanish 100 or equivalent.
2 hours per week: 2 credits.

201. **Grammar, Composition and Conversation.**
Prerequisite: Spanish 100 or equivalent.
1 hour per week: 1 credit.

202. **Spanish Drama**: prescribed for Honour Spanish students of the second year along with Spanish 200 and 201.
1 hour per week: 1 credit.

300. **The Contemporary Spanish Novel**: lectures, reading, translation, discussion, reports.
Prerequisite: Spanish 200 or equivalent.
2 hours per week: 2 credits.

301. **Grammar, Composition and Conversation.**
Prerequisite: Spanish 201 or equivalent.
1 hour per week: 1 credit.

302. **Contemporary Drama and Verse**: lectures, reading, translation, discussion, reports.
Prerequisite: Spanish 200, 202.
2 hours per week: 2 credits.

400. **Spanish Drama from its Origins to the Seventeenth Century.**
Prerequisite: Spanish 300, or equivalent.
2 hours per week: 2 credits.

401. **Advanced Composition and Conversation.**
Prerequisite: Spanish 301 or equivalent.
1 hour per week: 1 credit.

402. **Spanish Ballad and Lyric Poetry and Early Novel.**
Prerequisite: Spanish 302 or equivalent.
2 hours per week: 2 credits.

403. **Phonology and Morphology of Spanish**: an introduction, together with readings in old Spanish, supplementary to 402.

Prerequisite: Spanish 302.

1 hour per week: 1 credit.

DEPARTMENT OF SECRETARIAL SCIENCE

*MARGARET G. KEYES, Graduate, Kensington College.	Assistant Professor
**MARGARET THOMPSON, Graduate, Kensington College.	Assistant Professor
LORNA BIRTLES, Graduate, Kensington College,	Instructor
MABEL A. HYND,	Assistant
*LOUISE WISMER, B.A.,	Assistant

Students are warned that the difficulty of adjusting timetables makes it impossible for those who are unable to pass the final tests of each year to take general Arts subjects of a succeeding year in conjunction with their Shorthand and Typewriting. Therefore students who fail to pass in one or more of their subjects are faced with the possibility of having to lose an entire year.

Shorthand and Typewriting

These two subjects are interdependent. As soon as speed has been attained by the student, combined tests are given weekly, and the student progresses in these subjects concurrently, unprepared matter being taken down in shorthand and transcribed on the typewriter. The Shorthand and Typewriting are organized into sections based on relative speeds. To pass the tests the student's transcript must show not more than 2 per cent. error, and her shorthand notes not more than 5 per cent. error.

Unless each year's work is completed in the specified time it is not possible to graduate in the normal number of years; therefore, if the required standards are not reached at the end of the first and second years respectively, supplemental examinations will have to be written in the fall.

25b. **Tabular and Graphic Construction**: instruction and practice involved in graphic and tabular methods of analysis and presentation.

1 hour per week, one term: ½ credit.

**First term 1930-31.
*Second term 1930-31.

28-29. **Shorthand and Typewriting:**

Section A: theory of Pitman's Shorthand. Touch system in typewriting, care of machine, typewriting of correspondence and other straightforward work from printed copies.

Section B: 40 and 50 words per minute in shorthand, transcribed at 10 and 12 words per minute respectively on the typewriter; work in centering and setting out on the typewriter. Minimum speed 30 words per minute.

12 hours per week: 6 credits.

Prerequisite: First year General Course without conditions.

Text-books: *Pitman's Shorthand Instructor.*
Pitman's Shorthand Dictionary.
C. E. Smith, *Practical Course in Touch Typewriting.*

35. **Office Practice:** the foundation of the work in Office Practice is laid in the third year. Lectures are given in office methods, and actual duties are undertaken in the Secretarial Science Office of the University.

6 hours per week: 3 credits.

38-39. **Shorthand and Typewriting:**

Section C: 60 and 70 words per minute in shorthand transcribed at 15 words per minute on the typewriter.

Section D: 80 and 90 words per minute in shorthand transcribed at 20 and 25 words per minute, respectively, on the typewriter; typing from manuscript and tabular work. Minimum typing speed required, 45 words per minute.

12 hours per week: 6 credits.

Prerequisites: Secretarial Science 28-29, Section B.

Text-books: See 28-29 above.

45. **Office Practice:** in the fourth year students are on duty every afternoon in the Secretarial Science Office: they are given the responsible work of the various members of an office staff, and learn to operate modern office equipment.

15 hours per week: 7 credits.

48-49. **Shorthand and Typewriting:**

Section E: 100 and 110 words per minute in shorthand, transcribed at 30 and 35 words per minute respectively on the typewriter.

Section F: 120 words per minute in shorthand transcribed at 35 words per minute on the typewriter. Minimum typing speed required, 60 words per minute.
10 hours per week: 5 credits.
Prerequisites: Secretarial Science 38-39, Section D.
Text-books: See 28-29 above.

THEOLOGICAL OPTIONS

Offered by Huron College.

Apologetics

PROFESSOR SAGE

30. **Evidences.** Belief in the Divinity of Jesus Christ:
(a) His moral teaching and influence.
(b) The manifestations of His power over the natural world.
2 hours per week: 2 credits.
Text-books: Harris, *Pro Fide.*
Gore, *Belief in Christ.*

31. **Christian Theism.** Belief in the existence of God; arguments:
(a) Cosmological;
(b) Teleological;
(c) Moral.
2 hours per week, first term: 1 credit.
Text-books: Harris, *Pro Fide.*
Gore, *Belief in God.*

32. **Comparative Religion.** History of Religion:
(a) The origin and nature of religious consciousness.
(b) Tribal, national and universal religions.
(c) The elements common to religions and their values.
2 hours per week, second term: 1 credit.
Text-books: Menzies, *History of Religion.*
Watson, *Religions of the World.*

Biblical Literature

PRINCIPAL WALLER

The courses presuppose a general acquaintance with the outlines of Old and New Testament History, such as is given in Old and New Testament Outlines in Huron College.

30. **Old Testament General, I.** From the beginning of Scripture History to the death of Solomon, with more particular reference to the period from the sojourn in Egypt.
1 hour per week: ½ credit.

40. **Old Testament General, II.** From the death of Solomon to the close of the Old Testament canon. The prophets are studied historically in connection with the period in which they lived.
1 hour per week: ½ credit.

31. **New Testament General, I.** The New Testament period with more special reference to the history in the Acts of the Apostles and concurrent Pauline Epistles up to Acts 20.
1 hour per week: ½ credit.

41. **New Testament General, II.** History with concurrent Biblical literature from Acts 20 to the close of the New Testament canon.
1 hour per week: ½ credit.

N.B.: The above lectures are usually given in alternate years. They are supplemented by more intensive study of particular books in other courses.
Text-book: In every case, the English Bible.

Church History

PROFESSOR ANDERSON

30. **Early Church History.** From the beginning of the Christian Church to A.D. 461.
2 hours per week: 2 credits.
Text-book: Foakes-Jackson, *The History of the Christian Church from the Earliest Times to A. D. 461.*

40. **History of the Church in England**: the early period to 1603.
2 hours per week: 2 credits.
Text-book: Overton, *The Church in England* (Vol. I).

41. **History of the Church in England**: the later period from 1603 to the present time; lectures on the modern expansion of the Church.
2 hours per week: 2 credits.
Text-book: Overton, *The Church in England* (Vol. II).

42. **History of the Reformation.**
2 hours per week: 2 credits.
Text-book: Fisher, *The Reformation.*

DEPARTMENT OF ZOOLOGY

University College

A. D. ROBERTSON, M.A.,	Professor
HELEN BATTLE, PH.D.,	Assistant Professor
NANCY FROST, B.SC.,	Demonstrator
M. H. F. FRIEDMAN, B.SC.,	Demonstrator
MARGARET MELVILLE, M.A.,	Senior Demonstrator
MARGARET OVENS, B.A.,	Demonstrator
ELINOR HIGGINS, B.A.,	Technician

Assumption College

REV. T. A. MACDONALD, M.A.,	Professor

Students taking work in this Department will be required to make a deposit of two dollars to cover supplies and breakages. A refund of any surplus will be made at the end of the college year.

10. **Introductory Zoology**: for General Course students: a course dealing with the general principles of Zoology.

2 lectures and 4 laboratory hours per week: 4 credits.

Prerequisite: Junior Matriculation.

Text-books: Shull, *Principles of Animal Biology.*
Shull, *Laboratory Directions in Principles of Animal Biology.*
Bruner, *Laboratory Directions in College Zoology.*
Hegner, *College Zoology.*

20. **Invertebrate Zoology**: for second year General Course students; a course dealing with selected invertebrate types from the comparative and evolutionary point of view.

2 lectures and 4 laboratory hours per week: 4 credits.

Prerequisite: Zoology 10.

Text-books: Hyman, *A Laboratory Manual for Elementary Zoology.*
Borradaile, *Manual of Zoology.*

22. **Chordate Zoology**: for General Course students; a course dealing with selected Chordate types from the comparative and evolutionary standpoint.

2 lectures and 4 laboratory hours per week: 4 credits.

Prerequisite: Zoology 10.

Text-books: Kingsley, *Comparative Anatomy of the Vertebrates.*
Newman, *Vertebrate Zoology.*
Hyman, *A Laboratory Manual for Elementary Zoology.*
Hyman, *A Laboratory Manual for Comparative Anatomy.*
Holmes, *Biology of the Frog.*
Bruner, *Laboratory Directions in College Zoology.*
Bensley, *Anatomy of the Rabbit.*

32. **Elementary Histology and Embryology**: a course

dealing with the elementary principles of animal histology and development.

2 lectures and 4 laboratory hours per week: 4 credits.

Prerequisite: Zoology 22.

Text-books: McEwen, *Text-book of Vertebrate Embryology.*
Bremer, *Text-book of Histology.*

33. **Elementary Experimental Zoology**: a course dealing with elementary animal reactions, simple physiological principles and elementary experimental work on animals, including genetics.

2 lectures and 4 laboratory hours per week: 4 credits.

Prerequisite: Zoology 20 or Zoology 22.

Text-books: Rogers, *Comparative Physiology.*
Rogers, *Laboratory Outlines in Comparative Physiology.*
Babcock and Collins, *Genetics, Laboratory Manual.*

34. **Evolutionary Zoology**: a lecture and demonstration course dealing with the evidence for, course of, and theories of evolution in the animal kingdom.

2 lectures per week: 2 credits.

Prerequisite: Zoology 10.

Text-books: Newman, *Readings in Evolution, Genetics and Eugenics.*
Lindsey, *Text-book of Evolution and Genetics.*

39. **Laboratory Technique**: a course designed for the training of students who may desire to fit themselves for technical positions in biological laboratories. Included in the course will be the preparation of materials for microscopic studies, the use and care of aquaria, photography and the making of lantern slides, chart making, the preparation of gross material for laboratory study, etc.

1 lecture and 2 laboratory hours per week: 2 credits.

Honour Courses

100. **Elementary Zoology**: for all first year Honour Science and B.A., M.D., students; a course dealing with the general principles of Zoology.

2 lectures and 4 laboratory hours per week for one term: 2 credits.

Prerequisites: Full entrance requirements for the Honour Biology Course.

Text-books: Shull, *Principles of Animal Biology.*
Shull, *Laboratory Directions in Principles of Animal Biology.*
Hyman, *A Laboratory Manual for Elementary Zoology.*

200. **Invertebrate Zoology**: for Honour Biology, Geology, General Science and B.A., M.D., students. The purpose of this

course is to give a general idea of the important phyla leading up to the Chordates and to show from selected forms how the animal functions are carried out and what adaptations and advances are made as specialization increases.

2 lectures and 6 laboratory hours per week for one term: 2½ credits.

Prerequisites: Zoology 100 and Botany 100.

Text-books: Borradaile, *Manual of Zoology.*
Petrunkevitch, *Morphology of Invertebrate Types.*
Hyman, *A Laboratory Manual for Elementary Zoology.*

300. **Comparative Anatomy**: for students in the Honour Biology, Geology, General Science and B.A., M.D., courses; a course dealing with the structure and evolution of the Chordates.

2 lectures and 6 laboratory hours per week for the whole year: 5 credits.

Prerequisites: Zoology 200 and Botany 200.

Text-books: Kingsley, *Comparative Anatomy of the Vertebrates.*
Newman, *Vertebrate Zoology.*
Hyman, *A Laboratory Manual for Elementary Zoology.*
Hyman, *A Laboratory Manual for Comparative Anatomy.*
Holmes, *Biology of the Frog.*
Bruner, *Laboratory Directions in College Zoology.*
Bensley, *Anatomy of the Rabbit.*

400. **History and Theory of Biology**: for students in the Honour or General Courses; a course dealing with the history, theory and problems of Biology.

2 lectures per week: 2 credits.

Prerequisites: Zoology 200 and Botany 200; or Zoology 22.

Text-books: Newman, *Readings in Evolution, Genetics and Eugenics.*
Lindsey, *Text-book of Evolution and Genetics.*
Locy, *Biology and its Makers.*
Locy, *The Growth of Biology.*
Nordenskiold, *A History of Biology.*
Sinnott and Dunn, *Principles of Genetics.*

401. **Experimental Zoology**: for students in Honour Zoology, Honour Biology and Honour Science; a course dealing with the biological reactions of animals. The course will consist of two parts: 401a given during the first term will deal with animal metabolism and physiology, 401b given during the second term will deal with tropisms, regeneration, genetics, etc. Either part will be available for Honour Biology students taking the Biology option during the fourth year and for Honour Science students.

8 laboratory hours per week: 4 credits.

Prerequisite: Zoology 300.

Text-books: Rogers, *Comparative Physiology.*
Rogers, *Laboratory Outlines in Comparative Physiology.*
Sinnott and Dunn, *Principles of Genetics.*
Babcock and Clausen, *Genetics in Relation to Agriculture.*
Babcock and Collins, *Genetics, Laboratory Manual.*
References: Jennings, *Behaviour of the Lower Organisms.*
Mast, *Light and the Behaviour of Organisms.*
Loeb, *Forced Movements, Tropisms and Animal Conduct.*
Roaf, *Text-book of Physiology.*
Morgan, *Regeneration.*
Sharpey-Schafer, *Experimental Physiology.*
Lillie, *Protoplasmic Action and Nervous Action.*
Child, *Physiological Foundations of Behaviour.*
Mitchell, *Text-book of General Physiology.*
Current Periodical Literature.

402. **Animal Ecology**: for Honour Biology and Honour Science students; a course in descriptive and physical animal ecology and zoogeography. In this course special problems will be assigned to the students.

2 lectures and 6 laboratory hours per week for one term: 2½ credits.

Prerequisites: Zoology 300 and Botany 300.

References: Ward and Whipple, *Fresh Water Biology.*
Needham and Lloyd, *Life in Inland Waters.*
Shelford, *Animal Communities in Temperate America.*
Borradaile, *The Animal and Its Environment.*
Pearse, *Animal Ecology.*
Chapman, *Animal Ecology with Special Reference to Insects.*
Wallace, *The Geographical Distribution of Animals.*

403. **Histology**: for Honour Biology students; a course dealing with the histology and cytology of animals.

8 laboratory hours per week for one term: 2 credits.

Prerequisites: Zoology 300 and Botany 300.

Text-books: Jordan, *Text-book of Histology.*
Bremer, *Text-book of Histology.*
Maximow-Bloom, *Text-book of Histology.*
Dahlgren and Kepner, *Principles of Animal Histology.*

404. **Embryology**: for Honour Biology students; a course dealing with the embryology of animals.

8 laboratory hours per week for one term: 2 credits.

Prerequisites: Zoology 300 and Botany 300.

Text-books: McEwen, *Text-book of Vertebrate Embryology.*
Wieman, *An Introduction to Vertebrate Embryology.*

406. **Entomology, Morphological and Systematic**: for students in Honour Biology and Honour Science; a course dealing with the elementary morphology, life histories and classification of insects.

2 lectures and 6 laboratory hours per week for one term: 2½ credits.

Prerequisites: Zoology 300 and Botany 300.

This course is optional with 402 for students who intend to pursue further work in Entomology in this or some other university.

Text-books: Comstock and Kellogg, *Insect Anatomy.*
Comstock, *An Introduction in Entomology.*
Imms, *A General Text-book in Entomology.*

408. **Animal Phylogeny**: for students in Honour Zoology. A course dealing with the phylogenetic relationships of animals, with particular attention to vertebrate descent.

4 laboratory hours per week: 2 credits.

Prerequisite: Zoology 300.

Text-books: Pratt, *Manual of the Common Invertebrate Animals.*
Pratt, *Manual of Verlebrate Animals.*
Newman, *Vertebrate Zoology.*

409. **Laboratory Technique**: a course offered for undergraduate students in Zoology who may desire training of this nature.

1 lecture and 2 laboratory hours per week: 2 credits.

Courses Leading to M. A.

500. History and Theory of Biology.
501. Experimental Zoology.
502. Ecology.
503. Histology.
504. Embryology.
508. Phylogeny.
509. Laboratory Technique.

DEGREES CONFERRED IN 1930

May 30

DOCTOR OF LAWS

Hibbert Winslow Hill
Denis O'Connor
Lawrence Vincent Redman

MASTER OF ARTS

Charles Spurgeon Buck
George Wilkinson Gurd
Charles William Maddeford
Margaret May Melville
Clifford Charles Wernham
Jean Elizabeth Wyse

MASTER OF SCIENCE

Gordon Albert Adams
John Archibald Ferguson
Albert Earl Mowry
Carl George Smith

BACHELOR OF DIVINITY

Aelwynn Brant Thomas

DOCTOR OF MEDICINE

Nelson Alexander Currie Andrews
Herbert Ernest Appleyard
William Kenneth Bice
Elmer Henry Bickle
George Angus Black
Robert Royden Burnett
Alexander Gordon Calder
Hyman Bernard Grace
John Irwin Humphries
Kenneth Adams Hunter
William Anthony Irwin
Beverley Louis Rosswell Kelly
Douglas Miller Lawrason
Hubert Joseph Loughlin
Archie Bernard McCallum
James Theodore McCullough
George Henry McGuffin
George Percy Morphy
John Harold O'Brien
Henry Carl Peco
William Elvey Pridham
Francis Joseph Raffaele
Charles Arthur Rose
Frederick Logan Rose
John Edward Sharpe
Jack Frederic Simpson
Helen Dorothy Snell
William Edway Upthegrove
Judson Rutherford Vining
Hyman Manuel Wilensky

BACHELOR OF ARTS

(University College)

Maxwell John Abbott
Alma Eldon Alderson
Dorothy Roberta Alderson
Dorothy Craig Allen
Katherine Laurena May Armstrong
Mary Fredrica Armstrong
Alice Elizabeth Ball
Dorothy Gertrude Balls
Murray Llewellyn Barr
Margaret Bell
Mildred Blanche Binkley
Robert Nelson Blair
Lorna Doris Blake
Sara Elizabeth Bogue
Alma Leah Box
William Truman Boyes
Helen Minerva Brown
Charles Alexander Buchanan
Eula Rebecca Burnett
Helen Elizabeth Cameron
Neil Douglas Campbell
Enid Mary Coleridge
John Irwin Cooper
Arthur George Burroughs Copp

John Robert Cross
William Lester Davis
Helen Irene Doan
Jean Abbott Dobson
Michael Fergus Donohue
Nerissa Downham
Thomas Alexander Fleming
Gertrude Elizabeth Louise Foster
Lloyd Stuart Gallagher
Mary Marguerita Garner
Evelyn Grace George
John Andrews Gibbings
Mary Hamilton Gillespie
Kathleen Erin Gilmore
Norman Hodgins Gilmour
Anna Margaret Gladman
Hilda Louise Grant
Harry Menno Greb
Alice Mildred Gunton
Grace Margaret Hartley
Meda Hartry
Alfred Ernest Hobbs
Benjamin Franklin Hodgins
Ida Agnes Hogg
Roger Alfred Jackson
Ruth Marion Jacobs
Milton Hemphill Jewell
Walter Hugh Johns
Florence Evelyn Jones
John Menish Kannawin
Merla Evans Kilbourne
Frederick Oxland Kime
Margaret Robson Marshall
Marjorie Elizabeth MacAsh
Anne McCormick
Murray Cram McDiarmid
Melda Emily McElroy
Elizabeth Dougalda MacGregor
Murray Holt MacLeod
David Malcolm McQueen
Christopher Frederick MacRae
McLay McMurrich Miller
Harold Henry Mills
George Edwin Morrow
Mary Bernadette Murphy
Milton Lionel Hall Newell
Walter Ernest Newham
Dorothy Adeline O'Dell
Grace Beatrice Ostrander
Nadine Booth Paterson
Eleanor Mabel Plumsteel
Jean Hill Plumsteel
John Frederick Rankin
Dorothy Winifred Rapsey
Margaret Josephine Raymond
Marjorie Powell Robinson
Archibald Stewart Ross
Neil Dykeman Runnalls
John Alexander Ruttle
Thomas Beverly Scarsbrook
Albert Melvin Shannon
William Simpson
Kenneth Charles Eastwood Stanbury
Roberta Jean Sutherland
Ruth Louise Tanton
Frances Elizabeth Tape
James Stewart Tapp
Anna Dean Thomson
Margaret Alberta Thomson
Irvin Charles Tonks
Dorothy Myrtle Upshall
Albert Victor Vincent
Aileen Beatrice Vining
Melville Lloyd Walkem
Arthur Jack Walker
Beverly Ellen Westland
Norman Russel Wightman
Dorothy Ella Wilson
Ernest Joel Robert Wright
Kathleen Magee Yeates

(Ursuline College)

Daisy Chabot
John Matthew Donohue
Ethel Agnes Donovan
(Mother M. Inez)
Kathleen Honora Holland
Dorothea Margaret Laidlaw
Fergus Joseph Laverty
Katherine C. Toohey
(Mother M. Mercedes)
Frances Quarry O'Brien
Thomas Alphonsus O'Keefe
Wilfrid Thomas O'Rourke
Katherine Richardson
John Austin Roney
Anthony Francis Scalisi
William Francis Simpson
Irene Marie Trottier
Louise Carolyn Wismer

(Assumption College)

Francis Austin Brown
John Vincent Corrigan
Michael Lorraine Doyle
Daniel James Drew
James Fay Howell
John Michael Nelson
John Francis Onorato

(Waterloo College)

Arthur Frederick Buehlow
Harold James Crouse
John Walter Goos
Walter Frederick Koerber
William Arthur Mehlenbacher
Lloyd Henry Schaus

BACHELOR OF SCIENCE IN NURSING

Helen Marguerite Bycroft

CERTIFICATE OF PUBLIC HEALTH NURSE

Della Mary Adeline Birrell
Belva Irene Finlay
Irene Elizabeth Flanagan
Ida May Gardner
Mabel Ruth Hoy
Margaret Katharine McRae
Petronilla Helen Schurter

October 24

MASTER OF ARTS

Dorothy Lilian Bennett
Reynolds Gardurious Elson
Benjamin Samuel Scott

BACHELOR OF ARTS

Lilian Marion Adams
James Richard Burgess
Gordon Duke
Edward Gordon Kennedy
Edmund Forbes Raven
George Fothergill Shepherd
Oliver Meredith Stonehouse

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SUMMARY OF REGISTRATION IN FACULTY OF ARTS
1930-31

Year In Course	University College	Alma College	Assump'n College	Huron College	Ursuline College	Waterloo College	Totals
First	197	..	45	2	17	12	273
Second	150	..	24	2	18	7	201
Third	133	..	21	6	11	10	181
Fourth	106	..	18	3	10	3	140
Fifth	21	..	4	..	..	..	25
Specials	30	5	4	6	33	3	81
Extramurals	103	..	..	..	..	..	103
Summer School	130	..	..	..	..	..	130
Extension Credit	72	..	..	..	..	..	72
							1206
Duplicates	..	..	..	..	..	..	112
Totals	305 637	5	116	19	89	35	1094

REGISTRATION IN FACULTY OF ARTS
1921-22—1930-31

Year	University College	Alma College	Assumption College	Huron College	Ursuline College	Waterloo College	Duplicates	Net Total
1921–22	301	..	51	16	41	..	16	393
1922–23	326	..	47	20	40	..	..	433
1923–24	462	..	33	27	55	..	47	530
1924–25	526	..	32	22	59	..	55	584
1925–26	650	3	45	20	52	31	81	720
1926–27	676	..	44	16	65	33	54	780
1927–28	684	3	57	13	75	29	57	804
1928–29	787	4	66	20	87	19	71	912
1929–30	900	..	92	19	91	29	86	1045
1930–31	942	5	116	19	89	35	112	1094

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