UNIVERSITY OF WESTERN ONTARIO

LONDON - - CANADA

FACULTY of ARTS

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

ANNOUNCEMENT 1928-1929

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1928

January

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1929

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CALENDAR OF FACULTY OF ARTS

1928

September 3, Monday.....Last day for receiving applications for removal of conditions.

September 10, Monday.....Examinations for removal of conditions begin.

September 22, Saturday.....Registration day for all students from London.

September 24, Monday.....Registration day for Freshmen from centres other than London.

September 25, Tuesday.....Registration day for second, third and fourth year students from centres other than London.

September 26, Wednesday.....Lectures begin. Late registration penalty of two dollars.

October 1, Monday.....Last registration day for M.A. candidates.

October 2, Tuesday.....Last day of registration except on penalty of three dollars.

October 9, Tuesday.....Last day of registration for all except Special Students in the Faculty of Arts.

October 12, Friday.....Annual Field Day, half-holiday.

October 18, Thursday.....Prize Day Exercises.

November 5, Monday.....Thanksgiving Day, holiday.

December 19, Wednesday, 6.00 p.m...Christmas vacation begins.

1929

January 3, Thursday.....Lectures resume.
Last day for submitting outlines for M.A. theses.

January 14, Monday.....Midyear Examinations begin.

January 26, Saturday.....First term ends.

January 30, Wednesday.....Second term begins.

January 31, Thursday.....Last day for payment of second term fees, unless on penalty of one dollar.

March 28, Thursday, 6.00 p.m...Easter vacation begins.

April 2, Tuesday.....Lectures resume.

May 4, Saturday.....Lectures for second term close.

May 13, Monday.....Second term examinations begin.

May 31, Friday.....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. J. H. CHAPMAN,	*Lieutenant Governor in Council (1928)*
MR. HERBERT J. CHILDS,	*London City Council (1930)*
MR. ARTHUR R. FORD,	*Board of Governors (1931)*
MAJOR GORDON INGRAM,	*London City Council (1931)*
MR. A. T. LITTLE,	*Board of Governors*
MR. JOHN M. MOORE,	*London City Council (1932)*
MR. J. P. MOORE, K.C.,	*Lieutenant Governor in Council (1930)*
LIEUT.-COL. T. J. MURPHY, K.C.,	*Board of Governors*
MR. PHILIP POCOCK,	*Lieutenant Governor in Council (1928)*
MR. JOHN PRINGLE,	*London City Council (1929)*
C. R. SOMERVILLE, LL.D.,	*Lieutenant Governor in Council (1928)*
MR. A. W. WHITE,	*Board of Governors*

Officers of the Board

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

The Senate

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 W. F. TAMBLYN,	*Faculty of University College*
DEAN A. B. MACALLUM,	*Faculty of Medical School*
DR. D. D. FERGUSON	*Faculty of Medical School*
DEAN A. J. SLACK,	*Faculty of Public Health*
MOST REV. DAVID WILLIAMS,	*Council of Huron College*
REV. C. C. WALLER, D.D.,	*Council of Huron College*
DEAN A. O. POTTER,	*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 D. L. DILLON,	*Faculty of Assumption College*
REV. L. J. BONDY,	*Faculty of Assumption College*
REV. F. J. BRENNAN,	*Faculty of Ursuline College*
REV. J. B. FFOULKES,	*Faculty of Ursuline College*
REV. A. A. BICE,	*Graduates of University College*
DR. F. J. H. CAMPBELL,	*Graduates of Medical School*
REV. C. W. FOREMAN,	*Graduates of Huron College*
REV. V. J. GUINAN,	*Graduates of Assumption College*
MR. M. P. MCDONAGH,	*Graduates of Ursuline College*
REV. N. WILLISON, LITT. D.,	*Graduates of Waterloo College*
DR. T. J. MCNALLY,	*Graduates in Public Health*
LT.-COL. T. J. MURPHY, K.C.,	*Board of Governors*
MR. F. H. CURRAN,	*London Board of Education*
REV. M. A. BRISSON,	*London Separate School Board*
MR. H. B. ARCHER,	*City Council of London*
DR. W. J. STEVENSON,	*City Council of London*
DR. H. T. REASON,	*City Council of London*
MR. N. S. GURD,	*City Council of Sarnia*
DR. L. M. STUART,	*City Council of Guelph*
REV. E. C. JEAKINS,	*City Council of Brantford*
MR. W. N. SEXSMITH,	*City Council of Chatham*
MR. A. G. HOOPER,	*City Council of Windsor*
MR. J. E. HARRISON,	*County Council of Middlesex*
MR. J. A. TAYLOR,	*County Council of Elgin*
MR. GEORGE W. HOLMAN,	*County Council of Huron*
MR. J. H. SMITH,	*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*
DR. D. A. MAXWELL,	*County Council of Essex*
MR. F. C. ASBURY,	*Principals Secondary Schools*
MR. A. M. OVERHOLT,	*Principals Secondary Schools*
MR. E. A. MILLER,	*Principals Secondary Schools*
DR. ARTHUR VOADEN,	*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

THE HONOURABLE WILLIAM J. ROCHE, M.D., LL.D.
Ottawa, Canada
M.D., 1883; LL.D., 1915; Chairman Civil Service Commission. 1917

President

WILLIAM SHERWOOD FOX, PH.D., D.LITT., 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; Professor of Classics, 1917; Dean, University College of Arts, 1919; President, 1927. 1917

Bursar

WILLIAM WAUGH, M.D., LL.D.
537 Talbot St.
M.D., 1871, McGill; 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 and Director of Extension Department

COL. W. J. 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

FREDERICK LANDON, M.A.
846 Hellmuth Ave.
B.A., 1906; M.A., 1919. 1917

Other Officials

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

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

JEAN BARBOUR, *Secretary to Supt. of Buildings*
291 Hyman St.
1926

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

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

ISABEL S. GRIFFITHS, *Assistant in Library*
355 Dundas St.
B.A., 1925. 1926

HELEN A. HUGHES, *Assistant in Registrar's Department*
234 Queen's Ave.
B.A., 1926. 1926

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

WILLIAM MARSDEN, *Supt. of Grounds*
627 Central Ave.
1925

REV. WM. C. MCLEOD, *Assistant in Extension Department*
442 Waterloo St.
B.A., Manitoba, 1904; M.A., Princeton, 1906. 1925

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

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*
559 Rosedale St.
1924

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

OFFICERS OF INSTRUCTION

Faculty of Arts

Session 1927-1928

(The year of first appointment to present professorial position 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; and H, the staff of Huron College. Unless otherwise indicated the degrees have been granted by the University of Western Ontario.)

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

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

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

REV. LOUIS JOSEPH BONDY (A), *Professor of French*
B.A., Toronto, 1917; M.A., Chicago, 1924; Ph.D., Johns Hopkins, 1927. 1919

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

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

VERY REV. DANIEL LEO DILLON (A), *Professor of Classics*
B.A., Toronto, 1914; Principal, Assumption College. 1922

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. VINCENT JOSEPH GUINAN (A), *Professor of Philosophy*
Lecturer in Mathematics
B.A., 1920. 1924

JOHN ABERDEEN GUNTON (C), *Professor of Chemistry*
1052 William 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*
249 Huron St.
B.A., Toronto, 1915; M.A., *ibid.*, 1916. 1919

*On leave, 1927-28.

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

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

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

REV. THOMAS ALOYSIUS MCDONALD (A), *Professor of Science*
B.A., Toronto, 1924. 1924

REV. SAMUEL E. MCKEGNEY (H), *Professor of Church History*
R. R. 2, London
B.A., Oxon., 1923; M.A., *ibid.*, 1927; M.C., 1918. 1925

ELLIS HENRY MORROW (C),
Professor of Business Administration
853 Maitland St.
B.A., Queen's, 1919; M.B.A., Harvard, 1921. 1922

KENNETH PERCIVAL RUTHERFORD NEVILLE (C),
Professor of Classics
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; Registrar of the University. 1908

RT. REV. DENIS O'CONNOR (U), *Professor of Philosophy*
St. Peter's Seminary
B.C.L., Laval, 1908; S.T.L., *ibid.*, 1908. 1923

REV. JOHN HENRY O'LOANE (A),
Professor of Religious Knowledge
B.A., Toronto, 1918. 1923

WILLIAM JOHN PATTERSON (C), *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

ALEXANDER OBERLANDER POTTER (W), *Professor of History*
B.Sc., Gettysburg, 1919; M.A., *ibid.*, 1920; Ph.D., Columbia, 1922.
Dean, Waterloo College of Arts. 1925

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

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

VEN. ARCHDEACON GEORGE BLOOMFIELD SAGE (H, C),
Professor of Apologetics
Lecturer in Philosophy
225 Wharncliffe Rd.
B.A., Trinity, 1880; B.D., *ibid.*, 1887; M.A., *ibid.*, 1910; D.D., 1909. 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
318 Grosvenor St.
B.A., Toronto, 1895; Ph.D., Columbia, 1900. 1902

REV. EDWARD JEROME TIGHE (A), *Professor of Philosophy*
B.A., 1920. 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., Cambridge, 1890; M.A., *ibid.*, 1902; M.A., McGill, 1906; D.D., 1915; F.A.G.S., 1925; Principal of Huron College. 1902

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

REV. NILS WILLISON (W), *Professor of English*
B.A., Queen's, 1926; Litt.D., Carthage, 1924; Registrar, Waterloo College of Arts. 1925

REV. FRANCIS JOSEPH BRENNAN (U),
Associate Professor of Philosophy
St. Peter's Seminary
B.C.L., Laval, 1910; S.T.L., Angelicum, Rome, 1911. 1923

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

JOHN DETWEILER DETWILER (C), *Associate Professor of Zoology*
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GENERAL INFORMATION

The University of Western Ontario is composed of three units, the College of Arts, 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, 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 75,000 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.

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Special Lecturer in Biblical Exegesis.

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†For additional details see pp. 9 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.

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

RT. REV. D. O'CONNOR, B.C.L., S.T.L.,
Professor of Philosophy.

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, B.A.,
Instructor in French.

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

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†For additional details, see pp. 9 ff.
*On leave, 1927-28.

Waterloo College

(Waterloo, Ontario)

Dean

ALEXANDER O. POTTER, PH.D.

Registrar

REV. N. WILLISON, LITT.D.

Bursar

REV. C. H. LITTLE, B.A., D.D.

Librarian

REV. H. HENKEL

†Officers of Instruction

ALEXANDER O. POTTER, PH.D.,
Professor of History.
Professor of French.
REV. HERMAN SCHORTEN, D.D.,
Professor of German.
REV. N. WILLISON, B.A., LITT.D.,
Professor of English.
REV. H. HENKEL,
Associate Professor of Philosophy.
Lecturer in Hebrew.
ROY J. E. HIRTLE, M.SC.,
Associate Professor of Chemistry.
Associate Professor of Mathematics.
REV. SEWARD W. HIRTLE, B.A.,
Associate Professor of Classics.
REV. C. W. FOREMAN, B.A.,
Lecturer in English.
REV. C. H. LITTLE, B.A., S.T.M., D.D.,
Lecturer in Religious Knowledge.
REV. E. NEUDOERFFER, B.D.,
Lecturer in Religious Knowledge.
R. G. RATZ, M.D.,
Lecturer in Public Health.
JAMES H. SMYTH, B.A.,
Lecturer in Economics.
J. GERALD HAGEY,
Assistant in Physical Training.
EARLE CLARE SHELLEY,
Assistant in French.

†For additional details see pp. 9 ff.

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 (British, 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).

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 Senior and Junior Matriculation examinations.

Newfoundland—Associate in Arts examinations.

The 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 must secure application blanks for entrance sufficiently early to enable them to return the blanks and their qualifying certificates to the Registrar not later than September 10th.

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. 32).

Candidates will be admitted to the first year of the **Pre-medical course** if they present certificates of complete Pass Junior Matriculation as outlined above (p. 32) and a certificate of registration with their provincial licensing board.

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 and may complete the course in three years.

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 60. The Honour Courses, except as mentioned below, are five-year courses from complete Pass Junior Matriculation or four-year courses from Honour Matriculation in four subjects. 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 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 ten 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 presents complete Pass Junior Matriculation.

The registration of special students in the Premedical Course will not be permitted.

EXAMINATIONS

General Course

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 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 37). 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 the 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 fall 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.

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 honour subjects of the fourth year will entitle the candidate to a General Course and not an Honour Degree. (See page 39, paragraph 6.)

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 examination. 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.

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.

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.

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 as a student of the following 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.

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.

Pre-medical

A student who fails in a science course of the first or second premedical year will be compelled to repeat all the sciences of that year in which he has obtained less than sixty per cent., and he must obtain an average of sixty per cent. in all the sciences prescribed for that 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 this 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 accept the award of such degree or at a subsequent examination compete again for a 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 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 University authorities, 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 authorities.

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

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.

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 34).

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).

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 following the summer term attended. Only by fulfilling this condition may a student proceed to the more advanced courses offered in the summer or winter terms.

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, 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.

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.

THE M.A. COURSE

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 B 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 October 1st; 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 Honours 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 3rd.

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. COURSE

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:

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

SECOND YEAR HONOUR COURSES—

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

THIRD YEAR HONOUR COURSES—

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

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

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

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

Scholarships—Fifty dollars each in:
General Proficiency, First Year.
General Proficiency, Third Year.

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

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

Jewell Scholarship—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 the University College of Arts.

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.

Prizes—Ten dollars each in:

History 45, 46.
English 30.
History 30.
French 30.
Philosophy 30.
English 20.
Latin 20.
French 20.
English 10.
Latin, 10.
Mathematics 10, 12.
Physics 10.
Botany 10.
Zoology 10.
Chemistry 11.

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

Dr. M. J. Bieber Prize—Proficiency in English, Ten dollars.

Holy Trinity Brotherhood (New York City) Prize—Proficiency in Greek, Ten dollars.

Louis Peine Prize—Proficiency in German, Ten dollars.

Kitchener-Waterloo Rotary Club Gold and Silver Medals—Public Speaking.

Augustine Scholarship—General Proficiency, First year, Fifty dollars.

Kaufman Scholarship—General Proficiency, Second year, Fifty dollars.

Potter Scholarship—General Proficiency, Third 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 1928, for study during the academic year 1929-30. The value of the scholarship is $1,400, 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 31st 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 25th, 1928, to the Provincial Educational Secretary, I.O.D.E., Y.W.C.A. Building, Hamilton, Ontario, who will provide additional information about the scholarships.

Federation Scholarship.

Value, one thousand dollars: the scholarship of the Federation of the University Women in Canada, available for study or research work, 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, Mrs. Douglas Thom, 2220 16th Avenue, Regina, Sask.

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.

A candidate whose work is eminently satisfactory may be appointed for a second year.

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.

Three hundred dollars a year for four years.

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.

This Bursary will next be awarded to a candidate from Ontario in 1928. Application must be made by March 1, 1928.

Leonard Scholarship.

The income of the trust estate of $500,000, created by 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 qualification, 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.

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 two Upper School Departments:

(a) Classics and Mathematics (Algebra and Geometry).
(b) English 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) and Physics.
(f) Biology, Physics and Chemistry.
(g) Biology, English or Mathematics (Algebra, Geometry and Trigonometry).
(h) Chemistry and English or Mathematics (Algebra, Geometry and Trigonometry).
(i) Classics, French and German or Spanish.
(j) Classics and English.

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) and (i) 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 1928. No scholarship will be awarded on a standing less than an average of First-Class Honours (75 per cent.) on all the papers involved in the award of the scholarship.

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 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, Ontario.

PUBLIC SCHOOL INSPECTOR'S CERTIFICATE

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, or

(2) A Pass (or General Course) Degree in Arts with a standard of 66% 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 four 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.

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, English and French, English and German or Spanish, French and German or Spanish, English and History, 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 Calendars of the respective Universities for the year 1920-21. After due notice from any one of the four Universities, the Minister may accept modifications of its courses for Specialist standing. (The Minister has approved of the courses in the Calendar of University of Western Ontario for 1923-24, instead of 1920-21. These are the same as the courses in this announcement).

2. Honour degrees in Arts from 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.

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 and Secretarial Science, including examination, one payment	90 00
Two payments per year, first $45.00, second $48.00	93 00
Tuition, Premedical, including examination, one payment	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	6 00
Tuition, Summer School, each credit, including examination	10 00
Maximum	40 00
Extramural, each credit, including examination	10 00
Maximum	30 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	10 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
Admission *ad eundem statum*	5 00
Late Registration, first week (see also page 6)	2 00
Undergraduate Certificate of Standing	3 00
Graduate detailed certificate (after the first two)	2 00
Athletic Association, each year	10 00
Students' Administrative Assembly Fee, 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), Botany, Geology, Zoology, 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 39; (3) see page 44.

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 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 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	2	2
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	1	1
†Religious Knowledge 20 or 29	1	1
†Religious Knowledge 21	1	1
Spanish 200, 201	3	3
Botany 20	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:		
Economics 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
Physical Training 30-40 or 31-41	2	1
†Religious Knowledge 30	1	1
†Religious Knowledge 31 or 39	2	2
Spanish 300, 301	3	3
Botany 30	6	4

*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*
Chemistry 33	5	3
Geology 30	3	3
Physics 30	3	1
Zoology 31, or 32, or 33	6	4
*Economic and Political Science 20	2	2
*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	1	1
*Spanish 200, 201	3	3
*Botany 20	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
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 45 (Metaphysics)	1	1
†Religious Knowledge 40 or 49	1	1
†Religious Knowledge 41 or 47 or 48	2	2
Physical Training 30-40 or 31-41	2	1
Spanish 400, 401	3	3
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

*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*
*Greek 30	3	3
*Hebrew 30	3	3
*Latin 30	3	3
*Spanish 300, 301	3	3
*Botany 30	6	4
*Chemistry 33	5	3
*Geology 30	3	3
*Physics 30	3	1
*Zoology 31, or 32, or 33	6	4

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
Physical Training 10 or 11	2	1
Public Health and Bacteriology 10	1	1
[illegible]ny 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

Third Year

[illegible]glish 40, 41	3	3
[illegible]istory 45a, 46b	3	3
[illegible]istory 43a	3	1½
Eight Credits from the Options of the Second, Third or Fourth Year, chosen so that they do not clash on either Class or Examination Time Table	8	8

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

B.A. GENERAL COURSE III

Secretarial Science

Requirements for Admission—Complete Pass Junior Matriculation.

First Year

Subject	*Hours Per Week*	*Credits*
English 10, 11, 12	4	4
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
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 107	1	1
Economic and Political Science 20	2	2
English 20, 21, 22	4	4
History 25	2	2
Physical Training 20 or 21	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
History 31	2	2
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

Subject	*Hours Per Week*	*Credits*
Fourth Year		
Economic and Political Science 30	2	2
English 40, 41	3	3
Secretarial Science 45	15	7
Secretarial Science 48, 49	6	3
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
Latin 10	3	3
Library Science 10a	1	½
Mathematics 10a, 12b	3	3
Public Health and Bacteriology 10	1	1
Greek 1	3	3
Hebrew 10	3	3
Physical Training 10 or 11	2	1
Second Year		
Economic and Political Science 20	2	2
English 20, 21, 22	4	4
Greek 25	3	3
History 25	2	2
Philosophy 20	1	1
Philosophy 21	1	1
Physical Training 20 or 21	2	1
Apologetics 30, or 31 and 32	2	2
Third Year		
Church History 30	2	2
Economic and Political Science 300, 302b	4	3
English 30	3	3
Greek 35	3	3
History 30, 31	5	5
Biblical Literature 30, 31	2	1

Fourth Year

Subject	*Hours Per Week*	*Credits*
Biblical Literature 40, 41	2	1
Church History 40 or 41 or 42	2	2
Economic and Political Science 400, 401, 403a	5	5
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 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	2	2
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	1	1
Philosophy 30, or English 31 or 33 or 34	2	2
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 Institute 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.

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; either *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 55.

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 (one term)	6	2
Chemistry 101	6	4
Geology 100	4	3
Physics 101, 102	5	3
Zoology 100 (one term)	6	2

Second Year

English 20, 11, 22	4	4
German 15 or French 10 (language chosen in first year)	3	3
Physical Training 20 or 21	2	1
Botany 200 (one term)	8	2½
Chemistry 303	6	4
Physics 201, 202	9	5½
Zoology 200 (one term)	8	2½

Third Year

English 21	1	1
French 35	1	½
German 35	1	½
History 45a, 46b	3	3
Botany 300 (one term)	8	2½
Botany 301 (one term)	8	2½
Botany 305 (collection)	..	..
Zoology 300	8	5
Zoology 305 (collection)	..	..
Zoology 400	2	2

Fourth Year

Any one of the three following options may be taken:

1. GENERAL BIOLOGY

Subject	*Hours Per Week*	*Credits*
French 45	1	½
German 45	1	½
Botany 401 (one term)	8	2½
Botany 402 (one term)	8	2½
Botany 403 (one term)	8	2½
Botany 405 (collection)	..	..
Chemistry 404	5	3
Zoology 401 (one term)	8	2
Zoology 402 (one term)	8	2½
Zoology 403 (one term)	8	2
Zoology 404 (one term)	8	2
Zoology 405 (collection)	..	..

2. BOTANY OPTION

French 45	1	½
German 45	1	½
Chemistry 404	5	3
Botany 401 (one term)	8	2½
Botany 402	8	2½
Botany 403	8	2½
Botany 404	8	2½
Botany 405 (plant collection)	..	..
Botany 406	8	2½

3. ZOOLOGY OPTION

French 45	1	½
German 45	1	½
Chemistry 404	5	3
Zoology 401	8	4
Zoology 403 (one term)	8	2
Zoology 404 (one term)	8	2
Zoology 405 (collection)	..	..
Zoology 402 or 406	8	2½
Zoology 408	4	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.

In order that a student may pass from year to year in this course, Third-Class Honour standing (60 per cent.) in each of the courses in Economic and Political Science and Business Administration is demanded.

First Year

English 20, 11, 22	4	4
Economic and Political Science 200	2	2
Economic and Political Science 102b	2	1
Business Administration 107	1	1
Business Administration 109a	2	1

Subject	*Hours Per Week*	*Credits*
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 20 or 21	2	1

Second Year

English 21, 32	2	2
Economic and Political Science 300	2	2
Economic and Political Science 301a	2	1
Economic and Political Science 303b	2	1
Economic and Political Science 305	2	2
Business Administration 200	3	3
Business Administration 201a	2	1
Business Administration 211b	2	1
One of:		
English 30	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 301a	1	1
Business Administration 302, 312	2	2
Business Administration 305a	3	1½
Business Administration 309b	3	1½
Business Administration 315b	3	1½
Any *three* credit option from General Course in Arts for which candidate has prerequisites	3	3

Fourth Year

Business Administration 400	..	3
Business Administration 401	3	3
Business Administration 403	2	2
Business Administration 409	3	3
Business Administration 491	..	3
Economic and Political Science 400	2	2

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

Apply to Registrar for Special Business Administration Announcement.

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; 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 55.

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 101, 102	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.

Chemistry Option

Third Year

French 35, German 35	2	1
Chemistry 303	6	4
Chemistry 334	8	5
Geology 300	6	4
Physics 201, 202	9	5½

Fourth Year

French 45, German 45	2	1
History 45a, 46b	3	3
Chemistry 443	5	3
Chemistry 444 or 306	6	4
Chemistry 445	9	5
Chemistry 448	1	1

Chemistry and Business Option

Third Year

Subject	*Hours Per Week*	*Credits*
Business Administration 107	1	1
Economic and Political Science 20	2	2
Economic and Political Science 305	2	2
French 35, German 35	2	1
Chemistry 303	6	4
Chemistry 334	8	5
Geology 301	3	3

Fourth Year

French 45, German 45	2	1
Business Administration 200	3	3
Business Administration 201, 211	2	2
Business Administration 305, 315	3	3
Business Administration 309	3	1½
Chemistry 445	9	5
Chemistry 448	1	1

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 55.

First Year

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 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

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

Second Year

English 20, 21, 22	4	4
French 20 or German 20	3	3
History 25	2	2
Philosophy 21	1	1
Physical Training 20 or 21	2	1
Economic and Political Science 200	2	2
History 30	3	3
Business Administration 109b	2	1

Third Year

*Philosophy 30	2	2
Economic and Political Science 300, 301, 302, 303, 304, 305	8	8
History 31	2	2
Three credits from		
English 30	3	3
French 30	3	3
German 30	3	3

Fourth Year

*History 40, 44	5	5
Econ. and Pol. Science 400, 401, 402, 403, 404 or 405	8	8
Three credits from:		
French 40	3	3
German 40	3	3
History 402, 403	3	3

*Students contemplating the study of law may substitute Government and Law 305, 306 and 307 for Philosophy 30: and Government and Law 405, 406, 407 and 408 for History 44.

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 Latin, Greek, French, German.

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 55.

Subject	*Hours Per Week*	*Credits*
First Year		
Library Science 10a	1	½
Physical Training 10 or 11	2	1
Botany 10 or Zoology 10 or Physics 10 or Chemistry 11	6	4
History 105	2	2
English 100, 102	3	3
Any *two* of:		
Latin 110	4	4
Greek 110	4	4
French 100	4	4
German 100 or Spanish 100	3	3
Hebrew 100	4	4
Second Year		
Physical Training 20 or 21	2	1
Philosophy 21	1	1
History 200	3	3
English 200, 202, 220	5	5
Any *two* of:		
Latin 202b, 225, 230	4	4
Greek 202a, 225, 230	4	4
French 200, 201	4	4
German 200, 201 or Spanish 200, 201, 202	4	4
Hebrew 200	4	4
Third Year		
Economic and Political Science 20	2	2
History 300	3	3
History 301	2	2
English 300, 301a, 301b, 341, 343	7	7
Any *one* of:		
Latin 330, 335	3	3
Greek 330, 335	3	3
French 300	3	3
German 300, 301 or Spanish 300, 301	3	3
Hebrew 300	4	4
Fourth Year		
History 400	3	3
History 402, 403	3	3
History 404	2	2
English 400	2	2
English 401	2	2
English 402	2	2
English 403	2	1
English 404	2	1

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.

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 55.

First Year

Subject	*Hours Per Week*	*Credits*
Library Science 10a	1	½
Latin 10	3	3
Botany 10 or Zoology 10 or Physics 10 or Chemistry 11	6	4
Physical Training 10 or 11	2	1
English 100, 102	3	3
French 100	4	4
German 100 or Spanish 100	3	3

Second Year

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, or Spanish 200, 201, 202	4	4

Third Year

History 30, 31	5	5
French 300, 301, 302	6	6
English 300, 301a, 301b, 341, 343	7	7

Fourth Year

History 40	3	3
French 400, 401, 402	6	6
English 400, 401, 402, 403, 404	8	8

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, and German or any other one subject.

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 55.

First Year

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

Second Year

Subject	*Hours Per Week*	*Credits*
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 or Spanish 200, 201, 202	4	4

Third Year

History 30, 31	5	5
German 300, 301, 310 or Spanish 300, 301, 302	5	5
English 300, 301a, 301b, 341, 343	7	7

Fourth Year

History 40	3	3
German 400, 401, 402 or Spanish 400, 401, 402, 403	6	6
English 400, 401, 402, 403, 404	8	8

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

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

Second Year

Physical Training 20 or 21	2	1
French 200 or German 200, 201	4	4
Greek 10	3	3
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 any other one subject.

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 55.

First Year

Subject	*Hours Per Week*	*Credits*
Library Science 10a	1	½
Physical Training 10 or 11	2	1
Latin 10	3	3
Botany 10 or Zoology 10 or Physics 10 or Chemistry 11	6	4
English 20, 11, 22	4	4
French 100	4	4
German 100 or Spanish 100	3	3

Second Year

English 30, 21	4	4
Physical Training 20 or 21	2	1
Latin 20	3	3
History 31	2	2
French 200, 201	4	4
German 200, 201 or Spanish 200, 201, 202	4	4

Third Year

English 40, 41	3	3
History 30	3	3
French 300, 301, 302	6	6
German 300, 301, 310 or Spanish 300, 301, 302	5	5

Fourth Year

History 40	3	3
French 400, 401, 402	6	6
German 400, 401, 402 or Spanish 400, 401, 402, 403	6	6

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

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

Second Year

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

Third Year

Subject	*Hours Per Week*	*Credits*
History 30	3	3
German 20 or 30 or Greek 20 or 30	3	3
French 300, 301, 302	6	6
Latin 330, 335, 340	5	5

Fourth Year

History 40	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 55.

First Year

French 1 or German 1 (language not previously taken)	3	3
Library Science 10a	1	½
Physical Training 10 or 11	2	1
Mathematics 20a, 24b	2	2
Botany 100	6	2
Chemistry 101	6	4
Geology 100	4	3
Physics 101, 102	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	6	4
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	15	11
Zoology 400	2	2

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 three of the four examinations required for Associateship in the Actuarial Society of America. The first of these may be taken during the first or second year, or along with the second examination during the third year; the third may be taken during the fourth year. These examinations are held in April, and may be written in London.

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 76.

Second Year

Same as second year in Department of Mathematics and Physics, page 76. In addition, students should if possible attend the lectures in Business Administration 107.

Third Year

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

Fourth Year

Mathematics 407	2	2
Business Administration 300	3	3
Economic and Political Science 300	2	2
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 II. in 1928-29.

Group I

Physics 304	1	1
Mathematics 301b	2	1
Mathematics 304	2	2
Mathematics 305a	2	1
Mathematics 312	2	2
Business Administration 201, 211	2	2
Economic and Political Science 303b	2	1

Group II

Subject	*Hours Per Week*	*Credits*
Mathematics 402	2	2
Mathematics 404	2	1
Mathematics 406	2	2
Mathematics 408	2	1
Business Administration 309b	3	1½
Business Administration 403	2	2

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 55.

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 101, 102	5	3
Physics 110	3	1
Mathematics 100a	3	1½
Mathematics 102a	3	1½
Mathematics 103b	2	1
Mathematics 104b	2	1
Mathematics 111b	2	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
Physics 220	2	2
Physics 201, 202	9	5½
Mathematics 200a	2	1
Mathematics 202a	2	1
Mathematics 204	3	3
Mathematics 210b	2	1
Mathematics 212b	2	1

Students may complete this course by taking either the Mathematics Option or the Physics Option as outlined below (See also page 79):

Mathematics Option

Third Year

Subject	*Hours Per Week*	*Credits*
Mathematics 307a	2	1
Mathematics 307b	2	1
One of Groups I and II below.		

Fourth Year

Mathematics 407	2	2
One of Groups I and II below.		

The following two groups are given in alternate years, Group II in 1928-29.

Group I.

French 35 and German 35	2	1
Economic and Political Science 20	2	2
Physics 303	5	3
Physics 304	1	1
Mathematics 301b	2	1
Mathematics 303a	2	1
Mathematics 304	2	2
Mathematics 305a	2	1
Mathematics 305b	2	1
Mathematics 312	2	2

Group II.

Economic and Political Science 30	2	2
History 45a, 46b	3	3
Physics 400	2	2
Mathematics 400	2	1
Mathematics 402	2	2
Mathematics 404	2	1
Mathematics 406	2	2
Mathematics 408	1	1

Physics Option

Third and Fourth Years

Groups I and II are given in alternate years, Group II. in 1928-29.

Group I.

French 35 and German 35	2	1
English 30	3	3
Mathematics 304	2	2
Physics 300	2	2
Physics 301	8	5
Physics 302	1	1
Physics 303	5	3
Physics 304	1	1

Group II.

Subject	*Hours Per Week*	*Credits*
French 35, German 35, if not taken before	2	1
History 45a, 46b	3	3
Mathematics 400, 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 at present open only to students of Assumption and Ursuline Colleges.

First Year

See page 57.

Second Year

English 20, 22	3	3
Latin 20	3	3
Physical Training 20 or 21	2	1
Religious Knowledge 20	1	1
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
I Science 20 or 10	6	4

Third Year

English 30	3	3
Philosophy 300	5	5
Philosophy 320	3	3
Philosophy 330	3	3
Three credits from:		
French 30	3	3
Greek 30	3	3
German 30	3	3
History 30	3	3
Latin 30	3	3
Religious Knowledge 30, 31	3	3
I Science 30 or 20	5	3

Fourth Year

Subject	*Hours Per Week*	*Credits*
English 40, 41	3	3
Philosophy 400	5	5
Philosophy 420	3	3
Philosophy 430	3	3
Three credits from:		
French 40	3	3
Greek 40	3	3
German 40	3	3
History 40	3	3
Latin 40	3	3
Religious Knowledge 40, 41	3	3
I Science 40 or 30	5	3

Department of Physics

See Department of Mathematics and Physics, page 76.

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 with 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 76.*

Second Year

See Department of Mathematics and Physics, page 76.

Third Year

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

Fourth Year

Business Administration 201, 211	2	2
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 II in 1928-29.

Group I.

Mathematics 304	2	2
Physics 301	8	5
Physics 302	1	1
Physics 303	5	3
Physics 304	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, 315	3	3
Physics 500	3	3
Industrial Research Problem	–	10

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 55, this course satisfies the academic requirements for the French and Spanish Specialist Certificate of the Department of Education.

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 30, 21	4	4
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 30	3	3
French 300, 301, 302	6	6
Italian 200	3	3
Spanish 300, 301, 302	5	5

Fourth Year

History 40	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; either 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 55.

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 101, 102	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	5	3
Physics 201, 202	9	5½

Third Year

History 45, 46	3	3
Botany 300, 301	8	5
Chemistry 303	5	3
Geology 200	4	3
Zoology 300, 400	10	7

Fourth Year

Economic and Political Science 20	2	2
Botany 401, Zoology 401 or Botany 402, Zoology 402	8	5
Chemistry 404	5	3
Geology 300	6	4
Physics 403	5	3

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

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 101, 102	5	3

Second Year

Subject	*Hours Per Week*	*Credits*
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	5	3
Physics 201, 202	9	5½

Third Year

History 45a, 46b	3	3
Chemistry 303	6	4
Zoology 300, 400	10	7
And any *two* of:		
Botany 300	8	2½
Botany 301	8	2½
Chemistry 404	5	3
Geology 200	4	3

Fourth Year

Third year of the Six Year Medical Course.

PREMEDICAL COURSE

Requirements for Admission—Complete Pass Junior Matriculation, and registration with the College of Physicians and Surgeons of Ontario or the equivalents.

Students who purpose studying medicine in the University of Western Ontario will take the first two years as outlined below:

First Year

English 10, 11, 12	4	4
French 10 or German 15	3	3
Library Science 10a	1	½
Mathematics 18a, 19b	2	2
Physical Training 10 or 11	2	1
Botany 11a	6	2
Chemistry 11	6	4
Physics 10	5	3
Zoology 11b	6	2

Second Year

English 20, 21, 22	4	4
French 20 or German 20	3	3
Physical Training 20 or 21	2	1
Chemistry 22a	5	1½
Chemistry 33	5	3
Physics 20	5	3
Zoology 21	6	4

Students who have completed these two years may enter the third year in Medicine and proceed to the degree of M.D., or the third year in the General Course in Arts and proceed to the degree of B.A.

DESCRIPTION OF COURSES

DEPARTMENT OF BOTANY

University College

N. C. HART, M.A.,	Professor
ANSON R. WALKER, M.A.,	Assistant Professor
HELEN B. BERDAN, M.A.,	Instructor
ELIZABETH MURRAY, B.A.,	Demonstrator and Technician
CONSTANCE L. STOTHERS, B.A.,	Demonstrator

Assumption College

REV. T. A. MCDONALD, B.A.,	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.*
References: Kerner and Oliver, *Natural History of Plants.*
Gager, *Fundamentals of Botany.*
Cavers, *Plant Biology.*
Ganong, *The Living Plant.*
Ganong, *A Text-book of Botany for Colleges.*
Martin, *Botany with Agricultural Applications.*

11a. **Elementary Botany** for Medical students; a course dealing with the general principles of Botany.

2 lectures and 4 laboratory hours per week, first term; 2 credits.

Prerequisite: complete college entrance requirements.

Text-book and References: See Botany 10.

20. **Plant Ecology and 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; 4 credits.

Prerequisite: Botany 10.

Text-book: Coulter, Barnes and Cowles, *Text-book of Botany, Vols. I and II.*
References: See Botany 301 and 401.

30. **Cryptogamic Botany** for General Course students; a course dealing with the Algae, Fungi, Mosses and Ferns.

2 lectures and 4 laboratory hours per week; 4 credits.

Prerequisite: Botany 20.

Text-book: Coulter, Barnes and Cowles, *Text-book of Botany, Vol. I.*
References: Strasburger, *Text-book of Botany.*
Duggar, *Fungous Diseases of Plants.*
Grout, *Mosses.*
Campbell, *Mosses and Ferns.*
Marshall, *Mosses and Lichens.*
Harshberger, *A Text-book of Mycology and Plant Pathology.*

40. **Phanerogamic Botany** for General Course students; a course dealing with the morphology, classification, and anatomy of selected groups of the Seed Plants.

2 lectures and 4 laboratory hours per week; 4 credits.

Prerequisite: Botany 30.

Text-books: Coulter, Barnes and Cowles, *Text-book of Botany, Vol. I.*
Strasburger, *Text-book of Botany.*
References: Coulter, *Morphology of Gymnosperms.*
Coulter, *Morphology of Angiosperms.*
Gray, *New Manual of Botany.*
Button and Brown, *Illustrated Flora of Northern United States and Canada.*
Stevens, *Plant Anatomy.*

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.

Prerequisites: full entrance requirements for the Honour Biology, Honour Science, or B.A., M.D. courses.

Text-book: Smith, Overton, etc., *A Textbook of General Botany.*
References: Bergen and Davis, *Principles of Botany.*
Kerner and Oliver, *Natural History of Plants.*
Curtis, *Nature and Development of Plants.*
Strasburger, *Text-book of Botany.*
Ganong, *The Living Plant.*
Bower, *Botany of the Living Plant.*
Gager, *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.*
References: Coulter, *Morphology of Gymnosperms.*
Coulter, *Morphology of Angiosperms.*
Strasburger, *Text-book of Botany.*
Goebel, *Organography of Plants.*
Chamberlain, *The Living Cycads.*
Scott, *Structural Botany.*
Stevens, *Plant Anatomy.*
Holman and Robbins, *Text-book of General 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.*
References: Campbell, *Mosses and Ferns.*
Bower, *Origin of a Land Flora.*
Tilden, *Minnesota Algae—Myxophyceae.*
Setchel and Gardner, *Algae of the Pacific Coast.*
Collins, *Freshwater Algae of North America.*
Marshall, *Mosses and Lichens.*

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.*
References: Jost, *Plant Physiology.*
Pfeffer, *Physiology of Plants.*
MacDougall, *Plant Physiology.*
Detmer-Moor, *Practical Plant Physiology.*
Clements, *Plant Physiology and Ecology.*
Green, *Vegetable Physiology.*
Sorauer, *A Treatise on the Physiology of Plants.*
Peirce, *Physiology of Plants.*
Reports of Special Investigations.

305. **Phanerogamic Collection** for students in Honour Biology; before entering on course 300, students shall make a collection of at least one hundred Spermatophytes. Particulars on application to the head of the Department.

A maximum of 2 credits will be allowed.

Text-book: Gray, *New Manual of Botany.*
References: See 401 below.

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, Botany 305.

Text-books: McDougall, *Plant Ecology.*
Coulter, Barnes and Cowles, *Text-book of Botany, Vol. II.*
References: Britton and Brown, *Illustrated Flora.*
Bailey, *Cyclopedia of Horticulture.*
Engler and Prantl, *Pflanzenfamilien.*
Warming, *Oecology of Plants.*
Schimper, *Plant Geography.*
Reports of Special Investigations.

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 and Botany 405.

Text-books: Coulter, Barnes and Cowles, *Text-book of Botany.*
Duggar, *Fungous Diseases of Plants.*
References: Marshall, *The Mushroom Book.*
Atkinson, *Mushrooms and Toadstools.*
Harshberger, *Mycology and Plant Pathology.*
McIlvaine and Macadam, *One Thousand American Fungi.*
Lister, *Mycetozoa.*
Bulletins and Reports of Special Investigations.

403. **Cytology and Histology** for Honour Biology students; a 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.*
References: Sharp, *An Introduction to Cytology.*
Stevens, *Plant Anatomy.*
Scott, *Structural Botany.*
Goebel, *Organography of Plants.*
Haberlandt, *Physiological Plant Anatomy.*
Reports of Special Investigations.

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: Jordan, *General Bacteriology.*
Conn, *Bacteria, Yeasts and Molds.*
References: Smith, *Bacterial Diseases of Plants.*
Fred, *Soil Bacteriology.*

405. **Cryptogamic Collection** for students in Honour Biology; before entering on Botany 402, a student shall make a collection of at least fifty cryptograms from selected groups.

Consult the head of the Department for further particulars.
A maximum of 2 credits is allowed for a superior collection.

For Text-books and References, see Botany 300 and 402.

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.*

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: Hanauseck, *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: 2 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.*
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 Britannica.

504. Omit 4-75.

505. **Research Problems in Plant Anatomy, Plant Ecology, Phytopathology or Mycology.**

DEPARTMENT OF BUSINESS ADMINISTRATION

E. H. MORROW, B.A., M.B.A.,	Professor
R. E. FREEMAN, M.A., B. Litt.,	Associate Professor
F. H. CURRAN, B.A., LL.B.,	Lecturer
J. W. WESTERVELT (JR.), C.A.,	Lecturer
W. F. MARSHALL,	Lecturer
A. L. HAWES,	Lecturer

30. **Accounting and Bookkeeping:** this course is prescribed for Secretarial students.

2 hours per week: 2 credits.

Text-book: Sprott and Short, *Canadian Modern Accounting.*

107. **Introduction to Business Organization:** the background of modern industry. The task of the business administrator. The background of modern control of manufacturing. The manager's administration of manufacturing. A worker's experiences with a personnel department. The background of a personnel administration. The manager's administration of personnel. The background of market administration. The manager's administration of marketing. The background of financial administration. The manager's administration of finance. The corporation. The manager's administration of risk. The form of the business unit. The new business administration, organization and leadership.

1 hour per week: 1 credit.

Text-book: Marshall and Wiese, *Modern Business.*

109a. **Commercial Geography:**

2 hours per week, first term: 1 credit.

Text-book: Huntington and Williams, *Business Geography.*

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-book: Cole, *Fundamentals of Accounting.*

201a. **Commercial Distribution:** organization and functions of marketing media, methods of marketing employed for different types of products, problems of the manufacturer and the middleman, purposes and use of credits as part of the

marketing machinery, the relation of advertising to marketing problems.

2 hours per week, first term: 1 credit.

Text-books: Duncan, *Marketing, Its Problems and Methods.*
Starch, *Advertising.*
Copeland, *Marketing Problems* (Revised Edition).
Commercial and Financial Publications.

211b. **Commercial Distribution:** continuation of 201a by discussion of concrete problems. Written reports on assigned problems will be required at frequent intervals.

2 hours per week, second term: 1 credit.

300. **Advanced Accounting:** a continuation of 200 with greater attention to the details of special books, accounts and methods of accounting for particular types of business and for corporations.

3 hours per week: 3 credits.

301a. **Marketing Problems:** this course continues 201 and will consist entirely of problems to be assigned every two weeks and to be reported upon in writing. The student will be left entirely to his own resources to discover the general facts of business practice and commercial conditions bearing on each problem. The class will largely be handled by business men who will assign problems within their own experience.

1 hour per week, first term: 1 credit.

302-312. **Finance Problems:** the course in Finance Problems is based on the financial courses in the Department of Economic and Political Science, and will illustrate the practical application of finance principles. The course will be handled entirely by the discussion of problems which have actually occurred in the experience of business concerns, and written reports will be required from time to time.

2 hours per week: 2 credits.

Text-book: C. E. Fraser, *Problems in Finance.*

305a. **Industrial Management:** organization; this course will comprise a broad survey of the field of management, particularly as exemplified in the management of manufacturing concerns. The first part of the session will be devoted to a discussion of the history of industrial progress and the evolution of the modern industrial plant. In this section of the course the various types of organization and the fundamental principles of management will be dealt with.

3 hours per week, first term: 1 credit.

Text-books: Taylor, *Shop Management.*
Lansburgh, *Industrial Management.*

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, second term: 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.

315b. **Industrial Management:** practice, continuing 305a by a consideration of common practices in departmental control and similar problems. Many of the lectures are given by the managers of local factories; excursions to view methods at first hand form part of the course.

3 hours per week, second term: 1½ credits.

400. **Applied Cost Accounting:** each student will be required to undertake a specific piece of work on cost accounting in the specialized field to which he expects to devote himself. The work must be of practical use to some business establishment, and will be done under the direct supervision of Mr. Benson or of some other recognized accountant. As the work will be done entirely in the field, lecture hours will be infrequent and will be largely devoted to reporting progress.

3 credits.

401. **Sales Management:** a survey of the problems of the sales manager; largely a course in which sales executives will discuss with the students current problems of marketing, pricing, credits, collections, advertising, handling of sales force, etc.

3 hours per week: 3 credits.

Text-book: Tosdal, *Problems in Sales Management.*

403. **Insurance Problems:** this course is for actuarial students and covers the organization, and financial and sale phases of Life Insurance Companies. The course will be handled entirely by Insurance Company executives. Given in 1928-29.

2 hours per week: 2 credits.

409. **Executive Problems:** the work of the previous years will be correlated in this course by means of written reports on problems of a general executive nature involving production, sales and financial policies. One hour a week is reserved for visits from executives who will present their current problems for discussion and for written reports. Two hours a week will be devoted to the study and discussion of the Harvard Business Reports.

3 hours per week: 3 credits.

Text-book: Harvard Business Reports.

491. **Research:** before graduation the student must submit reports covering the constructive and finished investigation of two major problems, chosen in consultation with the Head of the Department and the managers under whose guidance the investigations will be made. Class hours are arranged so as to give the student as much uninterrupted time as possible for this work.

3 credits.

DEPARTMENT OF CHEMISTRY

University College

J. A. GUNTON, M.A., PH.D., F.C.I.C.,	Professor
JOHN RUSSELL, M.Sc., PH.D., F.C.I.C.,	Assistant Professor
JAMES W. BURNS, M.Sc., F.C.I.C.,	Assistant Professor
C. SIVERTZ, B.A., PH.D.,	Instructor
GERTRUDE ROWNTREE, B.A.,	Demonstrator
F. W. PYE,	Instrument Maker

Waterloo College

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

Assumption College

REV. T. A. MCDONALD, B.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 and prescribed for first-year Premedical students.

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.*

22a. As in Chemistry 22. Prescribed for second year Premedical students. First term.

1 lecture, 4 laboratory hours per week: 1½ credits.

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 and prescribed for second-year Premedical students.

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 Biology, Honour Chemistry, Honour Geology, Honour Science and B.A., M.D. 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. **Qualitative and Quantitative Analysis:** for Honour Geology, Honour Science, and B.A., M.D. students.

1 lecture and 5 laboratory hours per week: 3 credits.

Text-book: A. A. Noyes, *Qualitative Chemical Analysis.*

221. **Advanced Inorganic Chemistry:** for Honour Chemistry students.

1 lecture, 3 laboratory hours per week: 2 credits.

222. **Advanced Qualitative and Quantitative Analysis:** for Honour Chemistry students.

2 lectures and 8 laboratory hours per week: 5 credits.

Text-book: Treadwell and Hall, *Quantitative Analysis.*

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, 3 laboratory hours, 1 recitation hour per week: 4 credits.

Prerequisite: Chemistry 101.

Text-book: Porter, *Organic Chemistry.*

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, fourth-year Honour Biology and optional for fourth-year students in the General Course.

2 lectures, 3 laboratory hours per week: 3 credits.

Prerequisite: 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).

444. **Advanced Physical Chemistry:** chiefly the kinetic theory, the electrochemistry of solutions and the phase rule, with emphasis on the thermodynamic foundation of the principles encountered. Training in the practical use of the principles will be given by means of problem assignments; for fourth-year Honour Chemistry students.

2 lectures and 4 laboratory hours per week: 4 credits.

Prerequisites: Chemistry 334.

Text-books: Nernst, *Theoretical Chemistry.*
Lewis, *System of Physical Chemistry.*
Taylor, *Treatise on Physical Chemistry.*

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.

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.

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
DEAN K. P. R. NEVILLE, PH.D.,	Professor
R. E. K. PEMBERTON, M.A.,	Assistant Professor
J. D. RALPH, B.A.,	Instructor

Assumption College

PRINCIPAL D. L. DILLON, B.A.,	Professor
REV. T. J. VAHEY, M.A.,	Associate Professor
REV. E. T. BURNS,	Lecturer

Waterloo College

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

It is the aim of the instructors of this department to present the classical literatures as interpretations of ancient Greek and Roman life and thought, as portrayals of a civilization of which our own is but a later phase, and as comprising the sources and models of the various departments of modern literature. A thorough knowledge of the grammar and syntax of Greek and Latin will be required on the ground that they are indispensable instruments for the adequate comprehension of the literature, and the correct writing of prose will be insisted upon as the best means of obtaining a command of these instruments. Great stress will be laid upon the student's power to read the classical literature independently and to produce accurate and finished translation. Where the standard allows, fifty per cent. of the marks obtainable on each examination of the pass courses in Classics will be allotted to the translation of sight passages.

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.

10. Caesar, *De Bello Civili I;* Horace, *Odes; I,* 1, 4, 5, 8, 9, 10, 14, 21, 22, 24, 29, 31, 37, 38; *II,* 3, 10, 13, 14, 16; *III,* 1, 2, 5, 7, 9, 13, 18, 23, 29, 30; *IV,* 3, 5, 7.

3 hours per week: 3 credits.
Prerequisite: Middle School Latin.

Text-books: Peskett, *Caesar's Civil War, Book I* (Cambridge).
Page, *Horace, Odes* (Macmillan Elementary Classics).
Allen, *Second Latin Exercise Book* (Oxford).

20. Livy, *XXXI-XXXV;* Virgil, *Aeneid VI;* selected Latin poetry; composition; sight translation.

3 hours per week: 3 credits.

Prerequisites: Latin 10 or Upper School Latin.

Text-books: Sidgwick, *Virgil, Aeneid VI* (Macmillan).
A. C. B. Brown, *The Shorter Livy* (Bell).
Rieu, *A Book of Latin Verse* (Oxford).
North and Hillard, *Latin Composition* (Copp, Clark).

30. Cicero, *De Amicitia;* Catullus; Plautus, *Rudens;* Terence, *Andria;* 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. A. Sonnenschein, *T. Macci Plauti Rudens* (Oxford).
E. H. Sturtevant, *P. Terenti Afri Andria* (American).
E. P. Simpson, *Select Poems of Catullus* (Macmillan).
E. W. Bowen, *Cicero's De Amicitia* (Heath).
Auden, *Latin Composition* (Blackwoods).

40. Cicero, *Letters;* Pliny, *Letters;* Tacitus, *Agricola;* Virgil, selections from the *Bucolics* and *Georgics;* 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).
Page, *Virgil, Bucolics and Georgics* (Macmillan).
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. Livy, *XXI-XXX* (read intensively); 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, *Tite-Live, Histoire, Troisième Décade* (Hatier).
W. C. Summers, *C. Sallusti Crispi Jugurtha* (Cambridge).
Rieu, *A Book of Latin Verse* (Oxford).
North and Hillard, *Latin Composition* (Blackwoods).
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; Plautus, *Rudens;* Terence, *Andria;* the literature and the history of the Republic.

2 hours per week: 2 credits.

Prerequisite: Latin 110.

Text-books: Sonnenschein, *T. Macci Plauti Rudens* (Oxford).
Sturtevant, *P. Terenti Afri Andria* (American).
Simpson, *Select Poems of Catullus* (Macmillan).
Bowen, *Cicero's De Amicitia* (Heath).

330. Horace, *Satires;* Juvenal, *Satires;* Suetonius, *Augustus;* selections from Virgil, *Aeneid VII-XII.*

2 hours per week: 2 credits.

Prerequisite: Latin 220.

Text-books: E. P. Morris, *Horace, Satires* (American).
H. L. Wilson, *Juvenal* (Heath).
T. E. Page, *Virgil, The Aeneid VII-XII* (Macmillan).

335. **Composition and sight translation.**

1 hour per week: 1 credit.

Prerequisite: Latin 225.

340. Cicero, *Letters;* Pliny, *Letters;* Tacitus, *Agricola;* Virgil, selections from *Bucolics and Georgics;* 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).
Westcott, *Pliny's Letters* (Allyn-Bacon).
Page, *Virgil, Bucolics and Georgics* (Macmillan).
Norwood and Watt, *Tacitus, Agricola* (University Tutorial Press).

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 *III, V;* Quintilian, Book *X.*

2 hours per week: 2 credits.
Prerequisite: Latin 330, 340.

Text-books: J. H. W. Lee, *Lucretius, De Rerum Natura I-III* (Macmillan).
W. D. Lowe, *Lucretius, De Rerum Natura* (Oxford).
J. W. Scudder, *Sallust's Catiline* (Allyn and Bacon).

442. Epigraphy, private life, philology: lectures and readings.

1 hour per week: 1 credit.
Prerequisite: Latin 330, 340.

Text-books: J. C. Egbert, *Introduction to the Study of Latin Inscriptions* (American).
P. Giles, *Manual of Comparative Philology* (Macmillan); or
J. M. Edmonds, *Comparative Philology* (Cambridge).
H. Johnston, *Private Life of the Romans* (Scott Foresman).

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).

10. Xenophon, *Hellenica;* Colson's *Greek Reader,* parts VI and VII; 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 I.

Text-books: J. S. Philpotts, *Selections Adapted from Xenophon,* Sections III, IV, (Oxford).
Colson, *Greek Reader* (Macmillan).
Benner, *Selections from Homer's Iliad* (Appleton).
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 *III;* 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.

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 & Sons).
Nunn, *Syntax of New Testament Greek* (Cambridge Press).
Volumes in *Cambridge Greek Testament Series.*

NOTE—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 LXX* (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 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).

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. Sophocles, *Oedipus Coloneus;* Homer, *Odyssey* (selections); Thucydides *II, III.*
2 hours per week: 2 credits.
Prerequisite: Greek 230.

Text-books: Campbell and Abbott, *Sophocles, Oedipus Coloneus* (Oxford).
Merry and Riddell, *Homer's Odyssey* (Oxford).
E. C. Marchant, *Thucydides II, III* (Macmillan).

331. Thucydides *I*, Homer, *Iliad IX, XVIII, XXII* (selections); Theocritus (selections).
1 hour per week: 1 credit.
Prerequisite: Greek 230.

Text-books: E. C. Marchant, *Thucydides I* (Macmillan).
J. H. Pratt, *Homer, Iliad IX* (Macmillan).
D. B. Monro, *Homer's Iliad XII-XXIV* (Oxford).

335. **Composition and sight translation.**
1 hour per week: 1 credit.
Prerequisite: Greek 225.

Text-books: Sidgwick, *Greek Prose Composition* (Ginn).

340. Sophocles, *Oedipus Rex;* Euripides *Iphigenia in Tauris;* Aristophanes, *Clouds;* Plato, *Laches.*

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).

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. Epigraphy, philology, private life: 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

R. E. FREEMAN, M.A., B.LITT., Associate Professor
E. E. REILLY, B.S.A., M.S., Assistant Professor

20. **Elements of Economics:** to provide an introduction to the more specialized courses. Part I is concerned with the function of specialization, competition, money and the other agencies that constitute our economic organization. Part II includes a study of the theory of value and distribution.

2 hours per week: 2 credits.

Text-book: R. E. Freeman, *Economics for Canadians.*
References: L. C. Marshall, *Industrial Society.*
F. W. Taussig, *Principles of Economics.*
R. T. Ely, *Outlines of Economics.*
L. C. Marshall, L. S. Lyon } *Our Economic Organization.*
A. Marshall, *Economics of Industry.*
A. D. Black, *Production Economics.*

30. **Financial Organization of Society:** a general study of the part that money plays in the organization of industrial society. The course includes a study of credit, credit instruments, financial institutions, problems associated with the raising of funds and the economic functions performed by the various types of financial agencies. In the latter part of the course the chief characteristics of the leading banking systems of the world will be examined.

2 hours per week: 2 credits.

Text-book: H. G. Moulton, *Financial Organization.*
References: C. A. Phillips, *Readings in Money and Banking.*
J. T. Holdsworth, *Money, Banking.*
E. S. L. Patterson, *Banking Principles and Practice.*
H. White, *Money and Banking.*
E. E. Agger, *Organized Banking.*

40. **Labor Problems:** after a preliminary study of the psychology and the history of the labor movement, the following topics will be discussed: immigration, wages, standards of living, women and children in industry, industrial accident and sickness, unemployment, trade unionism, the employers' approach to the labor problem, labor legislation, methods of industrial peace.

2 hours per week: 2 credits.

Text-books: E. S. Furniss, *Labor Problems.*
References: A. A. Young, *Labor Problems.*
P. H. Douglas, C. N. Hitchcock, W. E. Atkins, } *The Worker in Modern Economic Society.*
S. and B. Webb, *Industrial Democracy.*
B. M. Stewart, *Canadian Labor Laws and the Treaty.*
J. A. Fitch, *Causes of Industrial Unrest.*

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.

References: M. M. Knight, *Economic History of Europe.*
N. S. B. Gras, *An Introduction to Economic History.*
F. A. Ogg, *Economic History of Modern Europe.*
Usher, *Industrial Development of England.*
Cunningham, *The Industrial Revolution.*
Ashley, *Economic History.*
Day, *History of Commerce.*
Cheney, *Industrial and Social History of England.*
Clapham, *Economic Development of France and Germany.*

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.

References: Faulkner, *American Economic History.*
K. Coman, *Industrial History of the United States.*
Canada and its Provinces.
Colby, *Economic Geography of North America.*
Lippincott, *Economic Development of the United States.*
Farrand, *Development of the United States.*
Callender, *Economic History of the United States.*
T. W. VanMetre, *Economic History of the United States.*

200. Identical with 20.

300. Identical with 30.

301a. **Economics of Transportation:** railways, their historical development, characteristics, construction, finance, rates and control; the development of waterways; a comparative study of railway, waterway and road transport; problems of urban and rural transport.

2 hours per week, first term: 1 credit.

Text-book: W. Jackman, *Economics of Transportation.*
References: W. Z. Ripley, *Railroads, Rates and Regulations.*
D. A. MacGibbon, *Railway Rates and the Canadian Railway Commission.*
W. M. Acworth, *Elements of Railway Transportation.*
E. Jones, *Principles of Railway Transportation.*
E. B. Biggar, *The Canadian Railway Problem.*
W. Z. Ripley, *Railroads, Finance and Organization.*

302b. **Economics of Land:** characteristics, cost and income of land; national policies in the utilization of rural land; urban land utilization.

2 hours per week, second term: 1 credit.

References: Ely and Morehouse, *Land Economics.*
Ely et al., *Land Economic Series.*
L. C. Gray, *Agricultural Economics.*
H. C. Taylor, *Agricultural Economics.*
E. S. Munroe, *Agricultural Economics.*
L. D. H. Weld, *Marketing Farm Products.*
S. B. Morman, *Principles of Rural Credit.*
C. Hopkins, *Canadian Annual Review*, 1915, Articles dealing with farmer movements in Canada.
C. R. Fay, *Co-operation at Home and Abroad.*

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.

Text-book: E. E. Lincoln, *Business Finance.*
References: H. L. Reed, *Principles of Corporation Finance.*
E. S. Mead, *Corporation Finance.*
H. Lyon, *Corporation Finance.*
C. W. Gerstenberg, *Materials of Corporation Finance.*
A. S. Dewing, *Financial Policy of Corporations.*

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: R. G. Gettell, *Introduction to Political Science.*
References: Haines and Haines, *Principles and Problems of Government.*
Finer, *Foreign Governments at Work.*
Bryce, *The American Commonwealth.*
Bryce, *Modern Democracies.*
Lowell, *The Government of England.*
Woodrow Wilson, *The State.*
Gibbons, *Introduction to World Politics.*

305. **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.

2 hours per week: 2 credits.

Text-book: F. C. Mills, *Statistical Methods.*
References: H. Jerome, *Statistical Methods.*
W. I. King, *Statistical Methods.*
A. L. Bowley, *Elements of Statistics.*
H. Secrist, *Statistical Methods.*
T. L. Kelley, *Statistical Methods.*
H. L. Reitz, *Statistical Methods.*

400. Identical with 40.

401. **Social and Political Theory:** a course designed to trace the development of political thought, correlating each theory with the general thought of its age. An attempt will be made at all times to discuss present-day problems in the light of the theories under consideration. Special attention will be given to recent developments in sociology and in social psychology. No text will be assigned, but wide reading will be expected on assigned topics.

2 hours per week: 2 credits.

Text-book: N. G. Gettell, *History of Political Thought.*
References: McDougall, *The Group Mind.*
Ginsburg, *Psychology of Society.*
Plato, *The Republic.*
Mill, *Liberty.*
Weyl, *The New Democracy.*
Bryce, *International Relations.*
W. A. Dunning, *Political Theories.*

402. **History of Economic Theories:** Greek, Roman and Hebrew economic thought; the doctrines of the Middle Ages; mercantilism and the rise of Political Economy; the characteristics of different modern schools and the tendencies of present day doctrines.

2 hours per week: 2 credits.

Text-book: L. H. Haney, *History of Economic Thought.*
References: J. K. Ingram, *History of Political Economy.*
M. L. W. Laistner, *Greek Economics.*
G. O'Brien, *An Essay in Mediaeval Economic Teaching.*
O. F. Boucke, *Development of Economics.*
R. S. Tugwell, *The Trend of Economics.*
Gide and Rist, *History of Economic Doctrines.*

403. **Public Finance:** the history, theory and practice of public expenditures and revenues. Some discussion will be given to the various forms of taxes, the incidence of taxation, public credit and government budget making.

2 hours per week, first term: 1 credit.

Text-book: H. L. Lutz, *Public Finance.*
References: J. P. Jensen, *Problems in Public Finance.*
C. F. Bastable, *Public Finance.*
M. H. Hunter, *Public Finance.*
E. R. A. Seligman, *Essays in Taxation.*
Canadian Tax Conference, Annual Reports.
C. C. Plehn, *Introduction to Public Finance.*
C. J. Bullock, *Selected Readings in Public Finance.*

404b. **International Economic Policies:** fundamentals of the theory of international trade; purpose, structure and history of tariffs; tariff bargaining policies; commercial treaties; methods of commercial diplomacy; international capital investments; national control of raw materials; colonial policy

and other international aspects of the economic activities of governments.

2 hours per week, second term: 1 credit.

Text-book: W. S. Culbertson, *International Economic Policies.*
References: F. W. Taussig, *Readings in International Trade.*
T. E. G. Gregory, *Tariffs, A Study in Method.*
J. W. Angell, *Theory of International Prices.*
J. Viner, *Dumping.*
J. Viner, *Canada's Balance of International Indebtedness.*

405b. **Municipal Government:** the historical development of local government in Great Britain, the United States and Canada; relations between municipal, provincial and federal governments; the municipal system of Ontario; the council, commission and manager forms; taxation, public utilities and other problems of municipal administration.

2 hours per week, second term: 1 credit.

Text-book: J. Wright, *Selected Readings in Municipal Problems.*
References: W. B. Munro, *Municipal Government and Administration.*
C. Z. Zueblin, *American Municipal Progress.*
W. B. Munro, *The Government of European Cities.*
S. M. Wickett, *Municipal Government in Canada* (University of Toronto Studies in History and Economics, 1907, Vol. II).

Courses Leading to M.A.

500. Advanced Economic Theory.
501. Risk Bearing.
502. Land Economics.
503. Advanced Banking.
504. Insurance.
505. Population.
506. The Business Cycle.
507. Trade Unionism.
508. Sociology.
509. Types of Economic Organization.
510. Economic History of Canada.
511. International Trade and Tariffs.
512. Immigration.
513. Public Utilities.
514. Municipal Finance.
515. Investments.
516. Foreign Exchange.
517. Party Government.
518. Advanced Statistical Methods.
519. Agricultural Problems.

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. Any of the courses 500-519 may, at the option of the department, be substituted for an honour course of the 3rd or 4th year. These courses will be grouped according to the interest of the student: one interested in Finance, for example, might register for 503, 504, 506, 515, 516.

Government and Law

F. E. PERRIN, B.A., 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 200-202.
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 200-202.
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 200-202.
Text-books: Holland, *Elements of Jurisprudence.*
Sir Henry Maine, *Ancient Law.*

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.
Prerequisite: Law 305-307.
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 305-307.

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 305-307.

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 305-307.

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
MRS. JEAN T. NEVILLE, M.A.,	Lecturer
JEAN I. WALKER, L.C.M.,	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.E.L.,	Instructor

Assumption College

REV. J. V. BURKE, B.A.,	Associate Professor
REV. E. T. BURNS,	Lecturer
REV. P. J. HOWARD, M.A.,	Lecturer
REV. B. O'DONNELL, B.A.,	Lecturer

Ursuline College

*M. M. CARMEL, M.A.,	Professor
M. M. BONAVENTURE, M.A.,	Instructor
M. M. ST. JAMES, M.A.,	Instructor

Waterloo College

REV. N. WILLISON, B.A., D.LITT.,	Professor
REV. C. W. FOREMAN, B.A.,	Lecturer

Huron College

REV. T. G. WALLACE, M.A.,	Lecturer

10. General Literature.

First Term:

A.—A critical study of the following poems:

Chaucer, *General Prologue to the Canterbury Tales, lines 1-162; 285-308; 388-444; 477-541; 751-858.*
Ballads, Sir Patrick Spens, Lord Randal, Hind Horn.

*On leave, 1927-28.

Spenser, *Faerie Queene, Book I, Canto I.*
Sidney, *Sonnets, Astrophel and Stella, XXXI and XXXIX.*
Shakespeare, *Sonnets, XXIX, XXX, LV, LXXIII, CXI, CXVI;* Songs from *L.L.L.*, *A.Y.L.I.* (2), *T.N.* (first), *Cymb.* (2).
England's Helicon: *Rosalind's Madrigal* (Lodge); *The Passionate Shepherd* (Marlowe).
Jonson, *To Celia; To Shakespeare.*
Donne, *Love's Deity; Death.*
Milton, *L'Allegro; Il Penseroso; Lycidas; Sonnets; How soon hath time; Avenge, O Lord; When I consider; Cyriack, this three years' day.*
Dryden, *Absalom and Achitophel; Alexander's Feast.*
Pope, *An Essay on Man, Book I.*

B.—A careful reading of the following:
Langland (?), *Piers the Plowman* (The Prologue, A-Text).
Ballads, *Robin Hood and Guy of Gisborne.*
John de Trevisa, *Higden's Polychronicon.*
Malory, *Le Morte d'Arthur, Book XXI, Chapter V.*
Lyly, *Euphues and His England.*
Bacon, Essays, *Of Truth; Of Marriage and Single Life; Of Friendship; Of Youth and Age.*
Milton, *Areopagitica.*
Pepys, *His Diary* (Extracts).
Pope, *Rape of the Lock.*
Addison, Essays, *Aims of the Spectator; Thoughts in Westminster Abbey; The Vision of Mirza.*
Bunyan, *Pilgrim's Progress, Part I.*
Defoe, *Robinson Crusoe, Part I.*
Scott, *Rob Roy.*

C.—An understanding of the following literary genres and metres: ballad, epic, lyric, sonnet, elegy, ode, pastoral poetry, burlesque; "ballad metre," blank verse, Spenserian stanza, heroic couplet.

D.—A knowledge of English literary history as follows:

1. An outline of the development of English literature from Chaucer to Pope, excluding the drama.
2. An outline of the growth of the novel from Defoe to Scott.

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, *London.*
Thomson, *Winter, A Snow Scene; Autumn, A Storm in Harvest.*
Gray, *Ode on a Distant Prospect of Eton College; Elegy Written in a Country Churchyard; The Fatal Sisters.*
Collins, *Ode to Evening.*
Cowper, *The Task, Book V.*
Burns, *Lines to John Lapraik; To a Mountain Daisy; Bonnie Doon; Highland Mary; Tam O'Shanter.*
Blake, *Songs of Innocence, Introduction; The Clod and the Pebble; The Tiger; A Poison Tree; Love's Secret.*
Wordsworth, *We are Seven; To the Cuckoo; My heart leaps up; I wandered lonely as a cloud;* Sonnets: *London, 1802; Composed upon Westminster Bridge; On the Sea-shore near Calais; The world is too much with us.*
Coleridge, *Kubla Khan; The Rime of the Ancient Mariner.*
Scott, *The Lay of Rosabelle; Soldier, rest.*
Byron, *She walks in beauty; So, we'll go no more a-roving; Childe Harold's Pilgrimage, Man and Nature* from *Canto III.*
Shelley, *Ode to the West Wind; Final Chorus from Hellas; To Night.*
Keats, *Ode to Autumn;* Sonnets: *The Grasshopper and the Cricket; On First Looking into Chapman's Homer.*
Tennyson, *St. Agnes' Eve; Wages; The Higher Pantheism.*
Browning, *My Last Duchess; My Star; Apparitions; Epilogue to Asolando.*
Arnold, *Shakespeare; The Last Word.*
D. G. Rossetti, *The Blessed Damozel.*
A. Meynell, *The Shepherdess.*
Kipling, *The Ballad of the "Bolivar."*
Yeats, *The Lake Isle of Innisfree.*
Brooke, *The Soldier.*
Thomas, *Fifty Faggots.*

B.—A careful reading of the following:

Johnson, *The Rambler (No. 69); Congreve.*
Boswell, *Life of Samuel Johnson, Chap. XIII.*
Wordsworth, *Preface to "Lyrical Ballads."*
Lamb, *Mrs. Battle's Opinions on Whist.*
Keats, *The Eve of St. Agnes.*

Arnold, *Sweetness and Light.*
Fitzgerald, *The Rubaiyat of Omar Khayyam.*
Thompson, *The Hound of Heaven.*
Goldsmith, *The Vicar of Wakefield.*
Dickens, *Oliver Twist.*
Thackeray, *Henry Esmond.*

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: J. M. Manly, *English Prose and Poetry*, Revised Edition (Ginn).
J. Buchan, *History of English Literature* (Nelson).
W. J. Long, *English Literature* (Ginn).
Scott, *Rob Roy* (Nelson).
Bunyan, *Pilgrim's Progress* (Nelson).
Defoe, *Robinson Crusoe.*
Goldsmith, *The Vicar of Wakefield* (Nelson).
Thackeray, *Henry Esmond* (Nelson, or Everyman's Library).
Dickens, *Oliver Twist* (Everyman's Library).
References: J. W. Hales, *Longer English Poems* (Macmillan).
W. J. Rolfe, *Milton's Minor Poems.*
Byron, *Poems* (Ed. Coleridge, Scribner).
Tennyson, *Poems* (With Author's Notes, Macmillan).
Browning, *Select Poems* (Ed. W. T. Young, Cambridge University Press).
Browning, *Selections* (Ed. G. H. Clarke, Houghton-Mifflin).

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).
Selected English Short Stories, First Series (Oxford, World's Classics, 193).
Reference: H. G. Palmer, *Self-Cultivation in English* (Houghton-Mifflin).

20. Shakespeare and Prose Selections.

First term:

A.—A critical study of:

Shakespeare, *Romeo and Juliet; Henry IV, Part I; Henry IV, Part II.*

B.—A careful reading of the following plays:

Everyman.

Shakespeare, *Richard II*, and *Much Ado about Nothing.*

C.—A careful reading of the selections in *English Prose, Vol. I* (Ed. Peacock, Oxford), and *Selected English Essays* (Ed. Peacock, Oxford), from the following writers : Tyndale, Holinshed, North, Spenser, Raleigh, Hakluyt, Sidney, Lyly, Marlowe, Authorized Version of the Bible, Bacon, Lord Herbert of Cherbury, 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, *King Lear* and *Twelfth Night.*

B.—A careful reading of the following plays:
Shakespeare, *Hamlet* and *The Tempest.*
Dekker, *The Shoemaker's Holiday.*

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, Evelyn, Dryden, Pepys, Defoe, Swift, Addison, Richardson, Wesley, Fielding, Gray, Walpole, White, Adam Smith, Reynolds, 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: New Hudson Shakespeare (Ginn) or Deighton (Macmillan).
Raleigh, *Shakespeare.*
J. Bailey, *A Shorter Boswell* (Nelson).
Long or Buchan, *History of English Literature.*
References: J. D. Wilson, *Life in Shakespeare's England* (Cambridge University Press).
G. H. Cowling, *A Preface to Shakespeare* (Methuen).

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.

1 hour per week: 1 credit.

Text-books: French: *Writing* (Harcourt-Brace).
Quiller-Couch, *Standard Prose* (Dent).
Reference: Fulcher, *Foundation of English Style* (Crofts).

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 of 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 *Readings in English Prose of the Nineteenth Century* (Ed. Alden, Houghton-Mifflin) from Coleridge, Lamb, Hazlitt and Landor; Wordsworth, *Preface of 1800;* Austen, *Northanger Abbey;* Scott, *The Heart of Midlothian.*

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.*

1. 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).
2. Bagehot, *Wordsworth, Tennyson and Browning.*
3. Dickens, *Nicholas Nickleby;* George Eliot, *Silas Marner.*

Essays will be required during the session on subjects connected with the literature read in this course. Prescribed for all third-year students in General Course.

3 hours per week: 3 credits.

Text-books: *British Poets of the Nineteenth Century* (Sanborn).
Scott, *The Antiquary* (Nelson).
George Eliot, *Silas Marner* (Nelson).
Austen, *Northanger Abbey* (Nelson).
Jones, *Critical Essays of the Nineteenth Century* (Oxford, World's Classics).
Raleigh, *Poems of Blake* (Oxford).
Yeats, *Poems of Blake* (Boni and Liveright).
Dickens, *Nicholas Nickleby* (Nelson).
C. H. Herford, *Age of Wordsworth* (Bell).
H. Walker, *Age of Tennyson* (Bell).

References: O. Elton, *A Survey of English Literature*, 1780-1830; 1830-1880.
Andrew Lang, *Letters to Dead Authors.*
Poems of Blake (Ed. Sir W. Raleigh, Oxford), *Preface;* also *Preface* in the Edition by W. B. Yeats (Boni and Liveright).
T. Seccombe, *Age of Johnson.*
G. M. Harper, *Life of Wordsworth.*
Sir W. Watson, *Wordsworth's Grave.*
Shelley, *Letter to Maria Gisborne, To Coleridge, To Wordsworth.*
Rossetti, *Five English Poets.*
F. Thompson, *Shelley.*
Sir Sidney Colvin, *Life of John Keats.*
Mrs. A. T. Orr, *Handbook to Browning.*
Browning, *Select Poems* (ed. W. T. Young, Cambridge).
Browning, *Selections* (Ed. G. H. Clarke, Houghton-Mifflin).
S. P. Sherman, *Arnold, How to Know Him.*
L. Stephen, *Studies of a Biographer.*

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. Those intending to take this course should read at least half the novels before the term opens. Not given in 1928-29.

Defoe, *Robinson Crusoe.*
Richardson, *Pamela.*
Fielding, *Joseph Andrews.*
Goldsmith, *The Vicar of Wakefield.*
Sterne, *The Sentimental Journey.*
Walpole, *The Castle of Otranto.*
Burney, *Evelina.*
Edgeworth, *Castle Rackrent.*
Scott, *Quentin Durward.*
Shelley, *Frankenstein.*

Austen, *Pride and Prejudice.*
Brontë, *Jane Eyre.*
Dickens, *Oliver Twist.*
Thackeray, *Vanity Fair.*
Reade, *The Cloister and the Hearth.*
Trollope, *Barchester Towers.*
Eliot, *Silas Marner.*
Hardy, *Tess of the D'Urbervilles.*
Meredith, *Evan Harrington.*
Stevenson, *The Master of Ballantrae.*
Conrad, *Lord Jim.*

Copies of these novels may be obtained, in most cases, in the Everyman's Library.

Prerequisite: English 20 (with a minimum grade of C).

2 hours per week: 2 credits.

References: W. L. Cross, *The Development of the English Novel.*
Sir W. Raleigh, *The English Novel.*
C. Weygandt, *A Century of the English Novel.*
A. Chevalley, *The Modern English Novel.*

32. **Commerce Composition:** letters, précis writing and themes.

Prerequisite: English 22.

1 hour per week: 1 credit.

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. Not given in 1928-29.

Prerequisite: English 20 (with a minimum grade of C).

2 hours per week: 2 credits.

Text-books: E. K. and E. H. Broadus, *A Book of Canadian Prose and Verse* (Macmillan).
W. W. Campbell, *Oxford Book of Canadian Verse.*
J. W. Garvin, *Canadian Poems and Lays* (Musson).
W. D. Lighthall, *Canadian Poets* (new edition).
R. P. Baker, *A History of English Canadian Literature to Confederation* (Harvard University Press).
L. Stevenson, *Appraisals of Canadian Literature* (Macmillan).

34. **Modern English Drama:** a study of the development of modern English Drama from the Victorian Era to the present. The work and influence of the following dramatists will be considered: Lytton, Robertson, Gilbert, Pinero, Jones, Wilde, Shaw, Galsworthy; Masefield, Houghton, Ervine, Barrie; Phillips, Flecker; Yeats, Synge, Lady Gregory, Dunsany; Ibsen. Optional in the third and fourth years of the General Course. To be given in 1928-29.

Prerequisite: English 20 (with a minimum grade of C).

2 hours per week: 2 credits.

Lytton, *Richelieu.*
Robertson, *Caste.*
Gilbert, *Mikado.*
Pinero, *Second Mrs. Tanqueray.*
Jones, *Judah.*
Wilde, *Importance of Being Ernest.*
Shaw, *Misalliance, Dark Lady of the Sonnets, John Bull's Other Island, Man of Destiny, Candida, St. Joan.*
Galsworthy, *The Pigeon, Justice, Strife.*
Phillips, *Paolo and Francesca.*
Flecker, *Hassan.*
Masefield, *Good Friday, Tragedy of Nan.*
Houghton, *Younger Generation.*
Barrie, *Alice-Sit-by-the-Fire, Mary Rose, What Every Woman Knows.*
Ervine, *John Ferguson.*
Yeats, *Shadowy Waters, Cathleen-ni-Houlihan.*
Synge, *Riders to the Sea, Playboy of the Western World.*
Lady Gregory, *Rising of the Moon, Spreading the News.*
Dunsany, *Laughter of the Gods, Night at an Inn, Tents of the Arabs.*
Ibsen, *Wild Duck, Doll's House, An Enemy of the People.*

References: F. W. Chandler, *Aspects of Modern Drama.*
A. E. Morgan, *Tendencies of Modern English Drama.*
J. W. Cunliffe, *Modern English Playwrights* (Harper).
Allardyce Nicoll, *British Drama* (Crowell).
Barrett H. Clark, *A Study of Modern Drama.*
Dickinson: *An Outline of Contemporary Drama* (Houghton-Mifflin).

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.*
R. L. Stevenson, *Talk and Talkers* (Ed. W. L. Phelps), *Aes Triplex, Lantern-Bearers, Pulvis et Umbra, The English Admirals, Pan's Pipes.*
A. Birrell, *Obiter Dicta* (First Series): *The Alleged Obscurity of Mr. Browning's Poetry, A Rogue's Memoirs, Falstaff.*
G. B. Shaw, *Fanny's First Play.*
Walker and Williams (see below).
H. Child, *Thomas Hardy* (Holt).

References: J. Drinkwater, *Victorian Poetry* (Hodder and Stoughton).
H. Williams, *Modern English Writers* (Sidgwick and Jackson).
S. A. Brooke, *Four Poets* (Duckworth).
Ward's *English Poets, Vol. V* (Macmillan).
Meredith, *Letters* (Scribner).
Lamborn, *Rudiments of Criticism* (Clarendon Press).
L. Abercrombie, *Thomas Hardy* (Kennerley).
J. Freeman, *The Moderns* (Robert Scott).
R. L. Stevenson, *Virginibus Puerisque* (Ed. J. H. Fowler, Macmillan).
J. B. Mayor, *A Handbook of Modern English Metre* (Cambridge University Press, 1923).

Second Term:

A.—Poetry since Tennyson: a study of the following:

The Oxford Book of Victorian Verse: Nos. 601-2, 616, 619, 623-6, 643-5, 662-3, 666, 667, 670, 674-9, 689, 691, 706-7, 709, 723, 726-7, 729, 730, 738-9, 745-7, 751, 753-65, 770, 771, 776-9.

Methuen's *Anthology*, the selections from A. E., Brooke, Flecker, Davies, De la Mare, Graves, R. Hodgson, Kipling, R. Macaulay, Masefield, Moore, Newbolt, Nichols, Sassoon, Shove, Squire, Thomas, Thompson, Turner and Yeats.

Georgian Poetry, 1913-15, 1916-17: The selections from the same authors as above, so far as represented.

Georgian Poetry, 1911-12, pages 3-72, 87-89, 106-110, 119-127, 193.

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 University Press).

B.—Prose since Ruskin: a study of the following:

A. C. Bradley, *Poetry for Poetry's Sake* in *Oxford Lectures* (Macmillan).
H. G. Wells, *The Undying Fire* (Macmillan).
Selected Modern English Essays (Oxford).
R. Lynd, *The Passion of Labour.*

References: H. Williams, *Modern English Writers* (Sidgwick and Jackson).
M. Sturgeon, *Studies of Contemporary Poets* (Dodd, Mead).
R. Lynd, *Old and New Masters* (Dent). *The Art of Letters* (Unwin).
R. Scott-James, *Personality in Literature* (Secker).
J. Middleton Murry, *Aspects of Literature* (Collins).
A. Clutton-Brock, *Essays on Books, More Essays on Books* (Methuen).

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)* (Oxford).

References: *Cambridge History of English Literature, Vols. I-II.*
Saintsbury, *Periods of European Literature, Vols. I-II.*
Snell, *Age of Chaucer* and *Age of Transition* (Bell).

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.
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.*
Byron, *Childe Harold, Canto IV.*
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).
Long, *History of English Literature.*
Representative English and Scottish Popular Ballads (Houghton-Mifflin).

102. **Composition:** essays prescribed every two weeks; readings and conferences.

1 hour per week: 1 credit.

Text-books: L. W. Smith, *The Mechanism of English Style* (Oxford).
Foerster and Stedman, *Sentences and Thinking* (Houghton-Mifflin).

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.*
Keats, *Endymion.*
Browning, *Bishop Blougram's Apology.*
Arnold, *Empedocles, The Buried Life.*
Austen, *Emma* (Nelson).
Scott, *The Antiquary* (Nelson).
Brontë, *Jane Eyre* (Nelson).

Prescribed with 202 and 220 for second year students in the Honour English courses.

2 hours per week: 2 credits.

Text-books: *The English Parnassus* (Oxford).
Brown, *Milton's Poetical Works* (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).
Scott and Zeitlin, *Essays Formal and Informal* (Holt).

220. Identical with English 20.

300. Identical with English 30.

301a. **Anglo-Saxon Grammar:** translation of the following passages from Bright's *Anglo-Saxon Reader*: Selections I, III, V, VI, VIII, XII, XVI (to line 20 on page 100), XX, XXI, XXIII.

1 hour per week: 1 credit.

Text-books: *Anglo-Saxon Reader*, ed. by J. W. Bright.

301b. **English Literature Before Chaucer:** required readings arranged to illustrate the development of English literature from Widsith to Chaucer.

1 hour per week: 1 credit.

341. Identical with English 41.

343. **Chaucer:** a reading course.

1 hour per week: 1 credit.

Prerequisites: 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.
Heywood, *The Foure PP.*
Udall, *Ralph Royster Doyster.*
Sackville and Norton, *Gorboduc.*
Lyly, *Campaspe.*
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, *The Knight of the Burning Pestle.*
Webster, *The Duchess of Malfi.*
Shakespeare, *Othello, Antony and Cleopatra, Tempest;* (critically) *Midsummer Night's Dream, 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) and *Pageant of English Poetry* (Oxford), from Sackville to Vaughan; Palgrave, *Golden Treasury of Songs and Lyrics, Books I and II* (Oxford); Milton, *Ode on the Nativity, Comus, Arcades, Samson Agonistes, Paradise Lost, Books I, II, IV;* Hakluyt, *Voyages of Gilbert and Drake;* Browne, *Religio Medici; English Prose Readings, Vols. I, II.*

2 hours per week: 2 credits.

403. **Nineteenth Century Prose:** lectures, critical reading and discussion of:

(A) Thought:

J. S. Mill, *Utilitarianism, Liberty.*
T. Carlyle, *Past and Present.*
J. Ruskin, *Unto This Last.*
M. Arnold, *Sweetness and Light, Equality.*
J. R. Seeley, *The Enthusiasm of Humanity.*
W. E. H. Lecky, *The Stoics.*
J. Royce, *Loyalty and Insight.*
T. Huxley, *The Physical Basis of Life.*
C. Darwin, *Mental Powers of Men and Animals.*
A. R. Wallace, *The Importance of Dust.*
L. Stephen, *An Agnostic's Apology.*

(B) Criticism:

W. Wordsworth, *Prefaces to Lyrical Ballads, 1798, 1800; Preface to Poems (1815), Essay Supplementary to Preface (1815).*
S. T. Coleridge, *Biographia Literaria 17, 18.*
J. Ruskin, *Pre-Raphaelitism.*
M. Arnold, *Literature and Science, The Function of Criticism, The Study of Poetry, Wordsworth.*
W. Pater, *Style, Wordsworth, Coleridge, Charles Lamb, Sir Thomas Browne.*
L. Stephen, *Sir Thomas Browne.*
J. M. Robertson, *Ruskin.*
R. L. Stevenson, *A Gossip on Romance, Burns.*
J. A. M. Whistler, *Ten o'Clock.*
G. Meredith, *An Essay on Comedy.*
G. L. 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, Jespersen, Lounsbury, Wyld, Krapp and Sweet.

Courses Leading to M.A.

500. **Contemporary English Literary Criticism** (being a continuation of 403B).

Recent developments 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, with concrete illustrations.

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.*
W. P. Kerr, *The Art of Poetry.*
Quiller-Couch, *Studies in Literature.*
A. C. Bradley, *Oxford Lectures on Poetry.*
Raleigh, *Style, Milton.*
J. Mackail, *Lectures on Poetry.*
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. Carritt, *The Theory of Beauty.*
Scott-James, *Personality in Literature.*
T. S. Omond, *A Study of Metre.*
A. Clutton-Brock, *Essays on Books* (Methuen).
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).
L. Lewisohn, *A Modern Book of Criticism* (Macmillan).

Also books and articles by Bridges, Shaw, Herford, Elton, Newbolt, Bailey, More, Gayley, Spingarn, Lowes, Lynd, Abercrombie, Strachey, Hulme, Eliot, Fausset, Lubbock, Priestley, Squire.

501. **The Literary Essay from Bacon to the Present.**

In this course the development of the Essay will be traced from Bacon to the present time; the more important essays and essayists will be discussed and the Essay as a literary type will be critically examined.

DEPARTMENT OF GEOLOGY

J. W. RUSSELL, M.A., Associate Professor

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 in identifying specimens of minerals, rocks and fossils with field trips to various limestone quarries and for the interpretation of the glacial features of Ontario.

4 hours per week: 3 credits.

Prerequisite: Middle School Chemistry, or Chemistry 11.

Text-books: Pirsson and Schuchert, *Introductory Geology.*
Milham, *Introductory Meteorolgy.*

30. **Structural and Historical Geology:** (1) principles of earth movements, deformation, faulting, mountain building and peneplanation; elevation and depression; volcanism and deposition of ores; classification of ores and ore deposits: (2) study of fossil animal and plant life; fossils as indications of the timemarkers; historical evolution of America; geological age of the rocks of Ontario.

Laboratory work will consist in collecting and identifying Palaeozoic fossils; in examining rock, mineral and ore specimens.

3 hours per week: 3 credits.

Prerequisites: Upper School Biology or Botany 10 and Zoology 10; Geology 20.

Text-books: Pirsson and Schuchert, *Introductory Geology.*
Shimer, *Introduction to Study of Fossils.*

40. **Mineralogy:** lectures on descriptive mineralogy, with laboratory work on blow-pipe analysis, and wet methods of mineral identification.

2 lectures and 4 laboratory hours per week: 4 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 southwestern 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: Pirsson and Schuchert, *Text-book of Geology.*
Milham, *Elementary Meteorology.*

200. **Historical Geology and Introductory Paleontology:** 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, Geology and Biology.

4 hours per week, with field trips: 3 credits.

Prerequisite: Geology 100.

Text-book: Pirsson and Schuchert, *Text-book of Geology, Part II.*
References: Grabau, *Text-book of Geology, Part II.*
Chamberlain and Salisbury, *College Geology.*
Shimer, *Introduction to Study of Fossils.*
Woods, *Paleontology.*
Zittel, *Text-book on Palaeontology.*

300. **Mineralogy:** lectures on Descriptive and Determinative Mineralogy; blow-pipe analysis; wet methods and assaying methods: introduction to optical mineralogy.

2 lectures, and 4 laboratory hours per week: 4 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.

3 hours per week: 3 credits.

Text-books: Lindgren, *Mineral Deposits.*
Reis, *Economic Geology.*
G. A. Young, *Economic Geology Series of Canada.*

400. **Petrography:** a course on igneous rocks; the processes of crystallization from magmas; examination, with the petrographic microscope, of rock sections.

8 hours per week: 5 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.

402. **Field Geology:** a course of lectures with field work to give practice in surveying, mapping, and map reading.

2 credits.

403. **History of Geology:** a reading course in the development of the geological sciences.

2 credits.

DEPARTMENT OF GERMAN LANGUAGE AND LITERATURE

University College

N. C. JAMES, PH.D., LL.D., Professor
*R. A. ALLEN, M.A., Instructor
H. E. DAMASKE, B.A., Instructor
FRANCES K. MONTGOMERY, B.A., Assistant

Alma College

GERTRUDE E. METZLER, B.A., Instructor

Waterloo College

REV. H. SCHORTEN, D.D., Professor

1. **Preparatory German:** the work of the middle school or its equivalent is covered.

3 hours per week: 3 credits.

Text-books: Vandermissen and Fraser, *High School German Grammar.*
Guerber, *Märchen und Erzählungen* (Heath).
Wilhelmi, *Einer muss Heiraten.*

10. Grammar, pronunciation, translation from English into German, translation at sight from easy modern German prose.

3 hours per week: 3 credits.

Prerequisite: Middle School German or German 1.

Text-books: Vandermissen and Fraser, *High School German Grammar.*
Stern, *Geschichten von deutschen Städten, Vol. I.*
Baumbach, *Waldnovellen.*

15. Grammar, pronunciation, translation from English into German, translation at sight from easy modern German literary and scientific prose. Prescribed for science students and premedicals.

3 hours per week: 3 credits.

Prerequisite: Middle School German or German 1.

Text-books: Vandermissen and Fraser, *High School German Grammar.*
Stern, *Geschichten von deutschen Städten, Vol. I.*
Gore, *German Science Reader* (Heath).

20. Grammar, conversation, translation into German, translation from modern German.

3 hours per week: 3 credits.

Prerequisite: German 10.

Text-books: Stern, *Geschichten von deutschen Städten, Vol. II.*
Fulda, *Das verlorene Paradies.*
Carmen Sylva, *Aus meinem Königreich.*
Meyer, *Gustav Adolfs Page.*
Supplementary Reading.

30. Grammar, translation into German, outline of German literature from the beginning up to 1740.

3 hours per week: 3 credits.

Prerequisite: German 20.

Text-books: Lessing, *Minna von Barnhelm.*
Heine, *Prosa* (Buchheim Edition).
Auf der Sonnenseite (Heath).

*On leave, 1927-28.

35. The reading of scientific works in German.
1 hour per week: ½ credit.
Prerequisite: German 10 or 15.

40. Grammar, translation into German, outline of the history of German literature from 1740 to the present.
3 hours per week: 3 credits.
Prerequisite: German 30.

Text-books: Schiller, *Jungfrau von Orleans.*
Goethe, *Iphigenie.*
Freytag, *Journalisten.*

45. The reading of scientific works in German.
1 hour per week: ½ credit.
Prerequisite: German 35.

100. Grammar, pronunciation, translation into German, translation from modern German, history of German literature up to 1500.
4 hours per week: 4 credits.
Prerequisite: Upper School German or German 10.

Text-books: Stern, *Geschichten von deutschen Städten, Vol. II.*
Fulda, *Das verlorene Paradies.*
Carmen Sylva, *Aus meinem Königreich.*
Meyer, *Gustav Adolfs Page.*
Supplementary Reading.

200. Outline of history of German literature from 1500 to 1740.
3 hours per week: 3 credits.
Prerequisite: German 100.

Text-books: Schiller, *Jungfrau von Orleans.*
Schiller, *Wilhelm Tell.*
Hatfield, *German Lyrics and Ballads.*
Scheffel, *Ekkehard.*

201. Grammar, conversation, translation into German.
1 hour per week: 1 credit.
Prerequisite: German 100.

300. A general acquaintance with German literature from Gottsched to the death of Schiller. The life and works of Lessing and Heine.
2 hours per week: 2 credits.
Prerequisite: German 200.

Text-books: Lessing, *Minna von Barnhelm.*
Lessing, *Nathan der Weise.*
Heine, *Prosa* (Buchheim Edition).

301. Grammar, conversation, translation into German.
1 hour per week: 1 credit.
Prerequisite: German 200, 201.

310. The life and works of Goethe.
2 hours per week: 2 credits.
Prerequisite: German 200.

Text-books: Goethe, *Hermann und Dorothea.*
Goethe, *Iphigenie.*
Goethe, *Faust.*

400. A general acquaintance with the German Literature of the nineteenth century.
4 hours per week: 4 credits.
Prerequisite: German 300.

Text-books: Kleist, *Prinz von Homburg.*
Oxford Book of German Verse (Selections beginning with Novalis).
Hebbel, *Agnes Bernauer.*
Grillparzer, *Sappho.*
Ludwig, *Zwischen Himmel und Erde.*
Keller, *Romeo und Julia auf dem Dorfe.*
Sudermann, *Der Katzensteg.*

401. Grammar, conversation, translation into German.
1 hour per week: 1 credit.
Prerequisite: German 300 and 301.

402. **Elements of Middle High German Grammar:** History of Middle High German literature with reading of selected texts.
1 hour per week: 1 credit.
Prerequisite: German 300, 301.

DEPARTMENT OF HEBREW

University College

REV. C. C. WALLER, M.A., D.D., F.A.G.S., Professor

Waterloo College

REV. H. HENKEL, Lecturer

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 editions 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 to Hebrew and from Hebrew to 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 to 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.
Prerequisites: 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.,	Associate Professor
S. F. MAINE, M.A., B.D.,	Assistant Professor
HELEN A. HUGHES, B.A.,	Assistant
R. H. ALLIN, B.A.,	Assistant

Assumption College

REV. J. S. NICHOLSON, M.A.,	Instructor
REV. B. N. FORNER, B.A.,	Lecturer

Ursuline College

M. M. BONAVENTURE, M.A.,	Instructor
M. M. ST. JAMES, M.A.,	Instructor

Waterloo College

DEAN A. O. POTTER, PH.D.,	Professor

20. **Ancient Civilizations:** Early Egyptian, Babylonian, Hebrew History; Greece; Rome to 200 A.D. Lectures, reading and essays. (Not given in 1928-29.)
3 hours per week: 3 credits.

Text-book: Breasted, *Ancient Times* (Ginn).

25. **History of England to 1713:** with special emphasis upon the social life of the English people and upon the Renaissance and Reformation in England. Lectures, prescribed readings and essays.

2 hours per week: 2 credits.

Text-book: Trevelyan, *History of England, Vols. I, II* (Longmans).

30a. **Mediaeval History (295-1300):** lectures, prescribed reading and essays.

3 hours per week, first term: 1½ credits.

Text-books: Munro, *The Middle Ages* (Century) or
Thorndike, *History of Medieval Europe.*

30b. **The Renaissance and the Reformation (1300-1600):** lectures, prescribed reading and essays.

3 hours per week, second term: 1½ credits.

Text-books: 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 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.

Prerequisite: History 30a, 30b or an equivalent.

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.*

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.

Prerequisite: History 30a, 30b or an equivalent.

Text-books: Hayes, *A Political and Social History of Modern Europe, 1815-1915, Vol. II* (Macmillan).
Robinson and Beard, *Readings in Modern European History, Vol. II.*

43. **The Development of Colonial Self-Government in the British Empire:** lectures, prescribed reading and essays. 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.

Prerequisite: History 31.

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.*
References: Egerton, *Short History of British Colonial Policy.*
Lucas, *History of South Africa, Part I-II.*
Select Speeches of Sir William Molesworth, edited by Egerton.
Keith, *Responsible Government in the Dominions.*
Oxford Survey of the British Empire.

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 readings and essays.

2 hours per week: 2 credits.

Prerequisite: History 30.

Text-books: Muzzey, *History of the American People* (Ginn).
Lingley, *Since the Civil War* (Century).
Reference: *The American Nation.*

45a. **Mediaeval, Renaissance and Reformation History, and The Wars of Religion:** a rapid survey of Continental Europe from 295-1648. Lectures, essays and prescribed readings.

3 hours per week, first term: 1½ credits.

Prerequisite: History 31.

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.

Prerequisite: History 31.

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:** with special emphasis upon the social life of the English people and upon the Renaissance and Reformation in England. Lectures, prescribed readings, and essays.

2 hours per week: 2 credits.

Text-book: Trevelyan, *History of England, Vols. I, II* (Longmans).

200a. **Mediaeval History (295-1300):** lectures, prescribed reading and essays.

3 hours per week, first term: 1½ credits.

Prerequisite: History 105.

Text-book: Munro, *The Middle Ages* (Century).
References: Gibbon, *Decline and Fall of the Roman Empire.*
Gardner, *Julian.*
Milman, *History of Latin Christianity.*
Montalembert, *Monks of the West.*
Henderson, *A Short History of Germany.*
Davis, *Charlemagne.*
Bryce, *The Holy Roman Empire.*
Mathew, *Life and Times of Hildebrand, Pope Gregory VII.*
Cambridge Mediaeval History.
Emerton, *The Middle Ages.*
Taylor, *The Mediaeval Mind.*
Dill, *Roman Society in the Last Century of the Western Empire.*
Adams, *Civilization during the Middle Ages.*
Hodgkin, *Theodoric.*
Harnack, *Monasticism, Its Ideals and History.*

200b. **The Renaissance and the Reformation (1300-1600):** lectures, prescribed reading and essays.

3 hours per week, second term: 1½ credits.

Prerequisite: History 105.

Text-book: Hulme, *Renaissance and Reformation* (Century).
References: Burckhardt, *The Renaissance in Italy.*
Smith, P., *The Age of the Reformation.*
Pater, *The Renaissance.*
Dark, *The Story of the Renaissance.*
Sabatier, *Life of St. Francis of Assisi.*
Smith, P., *Erasmus.*
Huizinga, *Erasmus.*
Smith, P., *Luther.*
Lea, *History of the Inquisition.*
Thompson, *Wars of Religion in France.*
Taylor, *Thought and Expression in the Sixteenth Century.*
Schevill, *Political History of Modern Europe.*

300a. **Modern History (1600-1815):** for details, see History 40a. Honour students will be required to do special reading and reports in this course. Note references listed below.

3 hours per week, first term: 1½ credits.

Prerequisite: 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.*
References: Kitchin, *History of France.*
Wakeman, *The Ascendancy of France.*
Seeley, *Expansion of England.*
Perkins, *France under the Regency.*
Perkins, *France under Louis XV.*
Young, *Travels in France.*
Lowell, *Eve of the Revolution.*
Madelin, *The French Revolution.*
Rose, *Revolutionary and Napoleonic Era.*
Fisher, *Napoleon.*

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. Note references listed below.

3 hours per week, second term: 1½ credits.

Prerequisite: History 200a, 200b.

Text-books: Hayes, *A Political and Social History of Modern Europe, 1815-1915, Vol. II* (Macmillan).
Robinson and Beard, *Readings in Modern European History, Vol. II.*
References: Fife, *History of Modern Europe, 1792-1878.*
Gooch, *History of Modern Europe, 1878-1919.*
Marriott, *England since Waterloo.*
Rose, *Development of Modern European Nations.*
Von Bulow, *Imperial Germany.*
Muir, *Expansion of Europe.*
Gibbons, *New Map of Africa.*
Gibbons, *New Map of Europe.*
Seymour, *Diplomatic Background of the Great War.*

301. **History of Canada:** a survey of the History of Canada from the beginning of the French regime to the Great War.

Lectures, prescribed readings 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, etc.*

2 hours 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 Chatham.*
Morley, *Burke.*
Trevelyan, *Early History of Charles James Fox.*
Rosebery, *Pitt.*
Thursfield, *Peel.*
Morley, *Cobden.*
Froude, *Beaconsfield.*
Morley, *Life of Gladstone.*
References: Hunt-Poole, *Political History of England.*
Robertson, *England under the Hanoverians.*
Cecil, *Conservatism.*
Lecky, *History of England in the Eighteenth Century.*
Wallas, *Life of Francis Place.*
Trevelyan, *Earl Grey of the Reform Bill.*
Monypenny and Buckle, *Life and Letters of Benjamin Disraeli.*
Trevelyan, *Life of John Bright.*

402. **The Mediaeval Background of English Constitutional History:** lectures, prescribed reading and essays. A special study will be made of the origin of the English constitution. The following topics will be considered: Anglo-Saxon institutions and government; Norman institutions and government; the development of the Judicature; Magna Carta; the growth of Parliament; the legal reforms of Edward I; the Lancastrian Experiment in Constitutional Government; the Yorkist Reaction.

3 hours per week, second term: 1½ credits.

Text-books: Adams, *Constitutional History of England.*
Medley, *Constitutional History of England.*
Adams and Stephens, *Select Documents of English Constitutional History.*
References: Maitland, *Constitutional History of England.*
Stubbs, *Constitutional History of England.*
Taswell-Langmead, *English Constitutional History.*

403. **The Development of Colonial Self-Government in the British Empire:** for details, see History 43. Honour students will be required to do special reading and reports in this course.

3 hours 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 hours 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 necessary 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., Lecturer

500. **Domestic Relations:** Eversley, substituting the Canadian Statutes for the English sections in the text-book. The parts to be read are: Part I: ch. 1 to 11 (in 10 leave out Statutes and read our Married Woman's Property Act); ch. 13 to page 278, ch. 16 and 17 to page 454; Part II: ch. 1 to 6, inclusive; Part III: ch. 1 to 7, inclusive; Part IV: ch. 1 to 3, inclusive, and ch. 7; Part V: ch. 1 to 4, inclusive, and ch. 7.

Text-book: Eversley, *Domestic Relations.*

501. **Corporations:** The following of the text named below: Part I: 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 45 (d) ff.

DEPARTMENT OF LIBRARY SCIENCE

FREDERICK LANDON, M.A.,	Associate Professor
KATE M. GILLESPIE, B.A.,	Assistant
CATHERINE CAMPBELL, B.A.,	Assistant
BEATRICE WELLING, M.A., B.Sc.,	Assistant
ISABEL S. GRIFFITHS, B.A.,	Assistant

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 hours per week: 2 credits.

DEPARTMENT OF MATHEMATICS AND ASTRONOMY

University College

H. R. KINGSTON, M.A., PH.D., F.R.A.S., Professor
W. J. PATTERSON, M.A., Professor
*ARTHUR WOODS, M.A., Assistant Professor
G. R. MAGEE, M.S., Instructor

Assumption College

REV. V. J. GUINAN, B.A., Lecturer
REV. J. W. DORE, M.A., Lecturer

Ursuline College

M. M. IMMACULATE, B.A., Professor

Waterloo College

ROY J. E. HIRTLE, M.SC., Associate Professor

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; variation; 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 analytical 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, *Plane Analytic Geometry* (Wiley).

18a. **General Mathematics** (for premedical students): trigonometric ratios; applications to simple problems in heights and distances; trigonometric functions of $90° \pm A$, $180° \pm A$, $-A$; logarithms; arithmetic and geometric progressions; application to compound interest, annuities and life insurance; permutations and combinations; binominal theorem.

2 hours per week, first term: 1 credit.

Prerequisite: Pass Matriculation in Mathematics.

Text-book: Wilson and Warren, *An Intermediate Algebra* (Oxford).

*On leave, 1927-28.

19b. **Analytic Geometry** (for premedical students): graphs of statistics; selected portions of the analytical geometry of the point, straight line, circle, parabola and ellipse; application to curve of flight and parabolic reflector.

2 hours per week, second term: 1 credit.

Prerequisite: Pass Matriculation in Mathematics.

Text-book: Brink, *Analytical Geometry* (Century Co.)

20a. **Pre-calculus Mathematics:** review of binominal theorem; logarithms; exponential and logarithmic series; mathematical induction; loci; curve tracing; selected portions from the analytical geometry of the parabola, ellipse and hyperbola.

2 hours per week, first term: 1 credit.

Prerequisites: Mathematics 10a and 12b, or Upper School Mathematics.

23b. **Trigonometry:** trigonometrical ratios and their relations; values of ratios of common angles; formulæ of circular measure; applications; ratios of the sum and difference of two angles with derived formulæ; logarithms; solution of triangles with derivation of the necessary formulæ; 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* (Macmillan).

24b. **Calculus:** an elementary course stressing practical applications.

2 hours per week: 1 credit.

Prerequisite: Mathematics 20a.

Text-book: Woods and Bailey, *Elementary Calculus* (Ginn).

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.

2 hours per week: 2 credits.

Text-books: Moulton, *Introduction to Astronomy* (Macmillan).
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; building and loan associations. Not given in 1928-29.

2 hours per week: 1 credit.

Prerequisite: Mathematics 20a.

Text-book: To be determined later.
Reference: Todhunter, *The Institute of Actuaries Text-book, Part I* (Spectator).

Honour Courses

100a. **Algebra:** review of permutations, combinations and binomial theorem; exponential 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).
References: C. Smith, *Treatise on Algebra* (Macmillan).
Chrystal, *Algebra* (Macmillan).

102a. **Analytic Plane Geometry:** review of first course in analytic geometry; general treatment of the principal properties of the 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: Grace and Rosenberg, *Co-ordinate Geometry* (Tutorial Press).
References: C. Smith, *Conic Sections* (Macmillan).
Loney, *Co-ordinate Geometry* (Macmillan).

103b. **Higher Trigonometry:** perimeter and area of regular polygon and circle; inscribed, escribed and circumscribed circles; pedal triangle; inverse notation; general values of inverse functions; triangulation of heights and distances; limiting forms; maximum and minimum values of trigonometric functions; development of trigonometric functions in power series; applications; evaluation of π; De Moivre's Theorem; n^{th} roots of ± 1; expansion of $\sin n\theta$ and $\cos n\theta$; exponential values of $\sin\theta$ and $\cos\theta$; expansion of $(2\cos\theta)^n$

and $(2\sin\theta)^n$ in power series; factors of $x^{2n}-2x^n\cos\theta+1$; hyperbolic functions; summation of trigonometric series.

2 hours per week: 1 credit.

Prerequisites: As for Mathematics 100a.

Text-book: Lock, *Higher Trigonometry* (Macmillan).
Hobson, *Plane Trigonometry* (Cambridge).

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.

2 hours per week: 1 credit.

Prerequisites: As for Mathematics 100a.

Text-book: Granville, *Differential and Integral Calculus* (Ginn).

111b. **Synthetic Solid Geometry.**

2 hours per week: 1 credit.

Prerequisites: As for Mathematics 100a.

Text-book: Wentworth and Smith, *Solid Geometry* (Ginn).

200a. **Algebra and Determinants:** theory of numbers as covered by Hall and Knight; perfect numbers; the integral solutions of $x^2+y^2=z^2$; an introduction to the theory of probability; theory of determinants and applications.

2 hours per week: 1 credit.

Prerequisite: Mathematics 100a.

Text-book: Hall and Knight, *Higher Algebra* (Macmillan).

202a. **Analytic Plane Geometry:** the circle through three points; the conic through five points; number of conditions applicable to general equation of conic; line co-ordinates and their reciprocity with point co-ordinates; equation of conic in line co-ordinates with deductions therefrom; ratios of lengths of chords, diameters and tangents drawn through a given point to a conic; homogeneous and trilinear co-ordinates; applications to the geometry of points and lines related to triangle; centre and axis of homology of two triangles; Desargue's Theorem; harmonic and anharmonic pencils; harmonic

properties of complete quadrilateral; conic referred to pair of tangents and chord of contact; similar and confocal conics; orders of contact of conics; osculating circles to conics and methods of obtaining radii of curvature; conics as plane sections of cone and interrelations therefrom; invariants of general conic.

2 hours per week: 1 credit.

Prerequisite: Mathematics 102a.

Text-books: C. Smith, *Conic Sections* (Macmillan).
Salmon, *Conic Sections* (Longmans).

204. **Differential and Integral Calculus:**

First term: 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.

Second Term: Integral Calculus: integration as inverse of differentiation and as the limit of summation; methods of integration; reduction formulæ; definite integrals; applications.

3 hours per week: 3 credits.

Prerequisite: Mathematics 104b.

Text-books: Granville, *Differential and Integral Calculus* (Ginn).
Williamson, *Integral Calculus, Elementary Treatise* (Longmans).
References: The works of Byerly, Edwards, Johnson, Williamson.

210b. **Theory of Equations:** as in text.

2 hours per week: 1 credit.

Prerequisite: Mathematics 100a.

Text-book: Burnside and Panton, *Theory of Equations, Vol. I* (Dublin University Press).
Reference: 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).
Reference: Aldis, *Solid Geometry.*

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-212b.

Text-book: Altschiller-Court, *College Geometry* (Johnson Publishing Co., Richmond, Va.).
References: Dupuis, *Elementary Synthetic Geometry* (Macmillan).
Durell, *Modern Geometry* (Macmillan).

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-212b.

Text-book: Todhunter and Leatham, *Spherical Trigonometry* (Macmillan).
Reference: Dupuis and Matheson, *Spherical Trigonometry.*

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-212b.

Text-book: Murray, *Differential Equations* (Longmans).
References: W. W. Johnson, *Monograph on Differential Equations* (Wiley).
W. W. Johnson, *Differential Equations* (Wiley).
Forsyth, *Differential Equations* (Macmillan).

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: Moulton, *Introduction to Astronomy* (Macmillan).
Kingston, *An Easy Pocket Star Guide for Beginners.*

305b. **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.

2 hours per week: 1 credit.

Prerequisites: Mathematics 303a, 305a.

Text-books: Barlow and Bryan, *Elementary Mathematical Astronomy* (Briggs and Bryan, Tutorial Series).
The American Nautical Almanac for 1930 (Eastern Service Supply Co.).
References: Holt, *Manual of Field Astronomy* (Wiley).
Campbell, *Elements of Practical Astronomy* (Macmillan).

307a. **Finite Differences:** fundamental difference forms; factorial expansions; interpolation formulæ; statistical applications; mechanical quadratures; integration; central differences.

2 hours per week: 1 credit.

Prerequisites: Mathematics 200a-212b.

Text-book: Henry, *Calculus and Probability* (C. and E. Layton).
References: Burn and Brown, *The Elements of Finite Differences* (C. and E. Layton).
Boole, *Finite Differences* (Macmillan).

307b. **Statistics.**

2 hours per week: 1 credit.

Prerequisites: Mathematics 200a-212b.

Text-book: Gavett, *First Course in Statistical Method* (McGraw-Hill).

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-212b.

Text-book: C. Smith, *Solid Geometry* (Macmillan).
References: Salmon, *Analytical Geometry of Three Dimensions, Vols. I and II* (Longmans).
Aldis, *Solid Geometry*.
Snyder and Sisam, *Analytical Geometry of Space* (Holt).

400. **Vector Analysis.**

2 hours per week: 1 credit.

Prerequisites: Mathematics 200a-212b.

Text-book: Gibbs-Wilson, *Vector Analysis* (Yale University Press).
References: Hyde, *Grassmann's Space Analysis* (Wiley).
Hyde, *Directional Calculus* (Wiley).
Coffin, *Vector Analysis* (Wiley).

402. **Advanced Geometry:**

First Term: Theory of Conics: 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.

Second Term: 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: 2 credits.

Prerequisites: Mathematics 200a-212b.

Text-books: Salmon, *Conic Sections* (Longmans).
Williamson, *Differential Calculus* (Appleton).
Williamson, *Integral Calculus* (Longmans).

References: Reye (tr. Holgate), *Geometry of Position, Part I* (Macmillan).
Cremona, *Projective Geometry* (Macmillan).
Hatton, *Principles of Projective Geometry* (Dent).
Veblen and Young, *Projective Geometry* (Ginn).
Salmon, *Analytical Geometry* (Gauthier-Villars, Paris).

404. **Advanced Calculus**: selected topics.

2 hours per week: 1 credit.

Prerequisites: Mathematics 200a-212b.

References: Williamson, *Integral Calculus* (Longmans).
Byerly, *Integral Calculus* (Ginn).
Goursat-Hedrick, *Mathematical Analysis, Vol. I* (Ginn).

406. **Theory of Functions of Complex Variable.**

2 hours per week: 2 credits.

Prerequisites: Mathematics 200a-212b.

Text-books: Townsend, *Functions of a Complex Variable* (Holt).
Fiske, *Functions of a Complex Variable* (Wiley).

References: Harkness and Morley, *Theory of Functions* (Macmillan).
Forsyth, *Theory of Functions* (Macmillan).
Goursat, *Functions of a Complex Variable* (Ginn).
Burkhardt-Rasor, *Theory of Functions of a Complex Variable* (Heath).

407. **The Mathematics of Life Insurance:** annuities, the general theory of probability; the mortality table; probabilities of life; expectations of life; survivorship probability; the law of mortality; life insurance premiums; policy reserves.

2 hours per week: 2 credits.

Prerequisites: Mathematics 200a-212b.

Text-books: Todhunter, *Institute of Actuaries' Text-book, Part I* (C. and E. Layton).
Spurgeon, *Life Contingencies* (C. and E. Layton).

References: Hall and Knight, *Higher Algebra* (Macmillan).
Fisher, *The Mathematical Theory of Probability* (Macmillan).
Rietz, Crathorne and Rietz, *Mathematics of Finance* (Holt.)
Mackenzie, *Interest and Bond Values* (University Press, Toronto).

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).

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

REV. G. B. SAGE, M.A., D.D.,	Lecturer
REV. W. R. MCINTOSH, B.A., D.D.,	Lecturer
E. T. WHITE, B.A., D.PAED.,	Lecturer

Assumption College

REV. V. J. GUINAN, B.A.,	Professor
REV. E. J. TIGHE, B.A.,	Professor
REV. T. J. BART, M.A.,	Lecturer
REV. B. N. FORNER, B.A.,	Lecturer

Ursuline College

MSGR. D. O'CONNOR, B.C.L., S.T.L.,	Professor
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

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. **Psychology:** a course in Elementary Psychology: Nervous equipment, Sensory and Motor equipment, Instinct, Emotions, Intelligence, Habit, Memory, Perception, Reasoning, Imagination, Will, Personality. Optional for students in the second year of the General Course.

1 hour per week: 1 credit.

Text-books: Woodworth, *Psychology, A Study of Mental Life* (Holt).
Angell, *Psychology* (Holt).

30. **History of Philosophy:** prescribed for the students in the third year of the General Course; lectures, assigned reading and essays; Greek philosophy, with special reference to Socrates, Plato, Aristotle; Pre-Kantian philosophy, especially Descartes, Spinoza, Leibnitz; English philosophy with special reference to Bacon, Hobbes, Locke, Berkeley, Hume.

2 hours per week: 2 credits.

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-books: Mackenzie, *Manual of Ethics.*
D'Arcy, *A Short Study of Ethics.*
Dewey and Tufts, *Ethics.*
Sidgwick, *History of Ethics.*

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:** an option for students in the fourth year of the General Course; lectures, prescribed reading and essays; Kant and his immediate successors; the English Philosophers, especially Mill and Spencer; more recent philosophic theories; outstanding problems of Modern Philosophy.

2 hours per week: 2 credits.

References: Hoffding, *History of Philosophy, Vol. II.*
Cushman, *History of Philosophy.*
Seth, *English Philosophers and Philosophic Schools.*
Rand, *Classical Philosophers.*
Calkins, *Persistent Problems 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.*
References: Mercier, *Manual of Modern Scholastic Philosophy* (two volumes).
Turner, *History of Philosophy.*

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.*
References: Maher, *Psychology.*
Cardinal Mercier, *Manual of Modern Scholastic Philosophy.*
Dubray, *Introductory Philosophy.*
Sanseverino, *Philosophiae Christianae Compendium.*
Zigliara, *Summa Philosophica.*
Hill, *Psychology and Natural Theology.*

220. **Logic:** a course in Formal Logic; the three operations of the mind; the idea; the term; various kinds of idea; definition; 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.*
References: Turner, *Lessons in Logic.*
Joyce, *Principles of Logic.*
Cardinal Mercier, *Manual of Modern Scholastic Philosophy.*

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: Stockl, *History of Philosophy.*
Marcone, *Historia Philosophiae.*
Klimke, *Institutiones Historiae Philosophiae* (2 Vols.).
Geny, *Historia Philosophiae.*

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.*
References: Sanseverino, *Philosophiae Christianae Compendium.*
Zigliara, *Summa Philosophiae, Vols. I and II.*
S. Thomas Aquinas, *Summa Theologica.*
Cardinal Mercier, *Manual of Modern Scholastic Philosophy.*

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.*
References: Signoriello, *Philosophia Moralis.*
Zigliara, *Ethica et Jus Morale.*
Cronin, *Ethics.*
Hill, *Ethics, General and Special.*

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. deWulf, *History of Philosophy.*
A. Stockl, *History of Philosophy.*

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.*
References: S. Thomas Aquinas, *Summae Theologiae, Pars Prima.*
Zigliara, *Summa Philosophica.*
Gredt, *Elemenia Philosophiae.*
Sanseverino, *Philosophiae Christianae Compendium.*
C. Pesch, *Philosophia Lacensis.*

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.*
References: Signoriello, *Philosophia Moralis.*
Rickaby, *Political and Moral Essays.*
Cronin, *Ethics.*
Zigliara, *Ethica et Jus Morale.*
Hill, *Ethics, General and Special.*

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: Klimke, *Institutiones Historiae Philosophiae.*
Marcone, *Historia Philosophiae.*
Geny, *Historia Philosophiae.*

DEPARTMENT OF PHYSICAL EDUCATION

J. G. LANG, B.P.E., (Men), Director
LOUISE A. BURNS, (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 the first and second 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.

All students participating in indoor and outdoor sports are required to pass this 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.

Timetable

Autumn Activities—September to November

For Men:

Rugby, each day, 4 to 6 p.m.
Track, Monday and Wednesday, 4.30 to 5.30 p.m.
Soccer, Tuesday and Thursday, 4.30 to 5.30 p.m.
C.O.T.C., Wednesday, 7 to 9.15 p.m., begins Oct. 3rd.

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 and Thursday, 4.30 to 5.30 p.m.

Winter Activities—November to April

For Men:

Gymnastics, Monday and Thursday, 4.30 to 5.30 p.m.
Boxing and Wrestling, Monday and Thursday, 4.30 to 5.30 p.m.
C.O.T.C., Wednesday, 7 to 9.15 p.m.
Hockey and basketball to be arranged.

For Women:

Basketball, Monday and Wednesday, 4.30 to 6.00 p.m.
Gymnastics, Tuesday and Thursday, 4.30 to 6.00 p.m.
Hockey, to be arranged.

NOTE—Where weather does not permit outdoor work, students will report to their dressing-rooms as usual for information regarding the particular session concerned.

Electives

A student will 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
- Military Training, C.O.T.C.

} Men

- University Track
- University Field Hockey
- University Tennis

} Women

Winter:—
- University Boxing and Wrestling
- Military Training, C. O. T. C.
- University Hockey
- University Basketball
- University Gymnastics

} Men

- University Hockey
- University Basketball
- University Gymnastics

} Women

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.

Third Year—Medical Students will join "B" Company and take Certificate "A" Medical.
Remainder will be divided into two sections, viz., (a) Artillery; (b) Infantry. The first will qualify for Artillery Certificates and the second will take Certificate "B" Infantry.

Fourth Year—"A" Company will train in Specialist lines, "B" Company will take Certificate "B" Medical.

The military training of the first two years consists of two parts: Theoretical, 1 hour a week; Practical, 2 hours a 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.

Practical: Platoon and Extended Order Drill, Company Drill, Various Formations used in Attack and Defence, and Musketry.

This branch of work 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.

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.

DEPARTMENT OF PHYSICS

University College

R. C. DEARLE, M.A., PH.D.,	Professor
R. L. ALLEN, M.A.,	Assistant Professor
A. WILLENA FOSTER, M.A.,	Instructor
D. S. AINSLIE, PH.D.,	Instructor
P. J. FALLONA, B.A.,	Demonstrator
SADIE MCROBERT, B.A.,	Demonstrator
T. W. T. SAMPSON, B.A.,	Demonstrator
F. W. PYE,	Instrument Maker

Alma College

GWENDOLYN R. SPURR, B.A., Instructor

Assumption College

REV. T. A. MCDONALD, B.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-books: Merchant and Chant, *Mechanics for the Upper School.*
Stewart and Satterly, *Senior Heat.*
Watson, *General Physics.*

20. **Electricity, Sound and Light:** supplementary to 10, but requiring more mathematical knowledge.

2 lectures, 3 laboratory hours per week: 3 credits.

Prerequisites: Physics 10, Mathematics 18a and 19b, or 23b.

Text-book: Watson, *General Physics.*
References: Hadley, *Electricity and Magnetism.*
Edser, *Light for Students.*
Ferry, *General Physics.*
Miller, *The Science of Musical Sounds.*

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.*
Reference: Stern and Topham, *Practical Mathematics.*

Honour Courses

101. **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.*
Reference: Watson, *Text-book of Physics.*

102. **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: Edser, *Heat for Advanced Students.*
References: Watson, *Text-book of Physics.*
Poynting and Thomson, *Text-book of Physics, Vol. III.*

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 Thomas, *Text-book of Physics, Vol. II.*
Edser, *Light for Students.*
References: Watson, *Text-book of Physics.*
Ferry, *General Physics.*
Houston, *A Treatise on Light.*
Miller, *The Science of Musical Sounds.*

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).
References: Watson, *Text-book of Physics.*
Poynting and Thomson, *Text-book of Physics, Vol. IV.*
Hadley, *Magnetism and Electricity.*

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: Miller and Lilly, *Analytic Mechanics.*
References: Jeans, *Mechanics.*
Smith and Longley, *Theoretical 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 University Press).
Reference: Tait and Steele, *Dynamics of a Particle.*

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.*
References: Wood, *Physical Optics.*
Drude, *Theory of Optics.*
Preston, *The Theory of Light.*

302. **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.

1 lecture per week: 1 credit.

Text-book: As for 301.
References: As for 301.
Also Richardson, *Electron Theory of Matter.*

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.*
References: Poynting and Thomson, *Text-Book of Physics, Vol. I.*
Edser, *Heat for Advanced Students.*

304. **Fourier Series:** an introduction to Fourier's analysis of wave-motion with applications to the theory of heat conduction, and to the vibrations of plucked strings.

1 lecture 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.*
References: J. J. Thomson, *Mathematical Theory of Electricity and Magnetism.*
R. A. Houston, *Introduction to Mathematical Physics.*
B. O. Peirce, *The Newtonian Potential Function.*
Jeans, *Electricity and Magnetism.*
Campbell, *Modern Electrical Theory.*
J. J. Thomson, *Recent Researches in Electricity and Magnetism.*

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: Poynting and Thomson, *Text-book of Physics, Vol. III.*
References: Griffiths, *Thermal Measurement of Energy.*
Planck, *Treatise on Thermodynamics.*
Ewing, *Thermodynamics for Engineers.*

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.*
References: Thomson, *Elements of Electricity and Magnetism.*
Thomson, *Conduction of Electricity Through Gases.*
Kaye, *X-Rays.*
Rutherford, *Radioactive Substances and their Transformations.*
Current Periodicals.

404. **Laboratory Course:** designed as an accompaniment to the lecture work of the fourth year. Especial 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, M.D., D.P.H., Professor

Assumption College

W. J. BEASLEY, M.D., Lecturer

Waterloo College

R. G. RATZ, 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

Alma College

NINA A. YEOMANS, Instructor

Assumption College

REV. J. H. O'LOANE, B.A., Professor
REV. W. P. MCGEE, B.A., Lecturer

Ursuline College

REV. A. P. MAHONEY, Professor
REV. M. A. BRISSON, Lecturer

Waterloo College

REV. C. H. LITTLE, B.A., D.D., Lecturer
REV. E. NEUDOERFFER, B.D., Lecturer

Offered at Assumption College only.

10 and 11. **Religious Knowledge:** Lectures, prescribed reading. Revelation in general; Pre-christian revelation; Christian 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.*
References: The New Testament.
Pohle-Preuss, *God, the Author of Nature.*
Pohle-Preuss, *The Divine Trinity.*
Manning, *Essays on 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.*
References: The New Testament.
Pohle-Preuss, *Grace.*
Doyle, *The Wonderful Sacraments.*
Ryan, *The Living Wage.*

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.*
References: The New Testament.
Spalding, *Evidences of Catholicity.*
Allies, *Formation of Christendom.*
Catholic Encyclopedia.

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.*
References: Newman, *Development of Christian Doctrine.*
Milner, *End of Controversy.*
Wiseman, *Lectures on Doctrines of Church.*

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.*
Belloc, *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.*
References: Walshe, *The Principles of Christian Apologetics*
Devivier-Messmer, *Christian Apologetics.*
Boedder, *Natural Theology.*
Newman, *Miracles.*
Liddon, *The Divinity of Our Lord.*
Spalding, *Evidences of Catholicity.*
The Catholic Encyclopedia.

11. **Religious Knowledge:** Old Testament History; general introduction; canonics; biblical languages; biblical archaeology; historical books.

1 hour per week: 1 credit.

Text-book: The Old Testament.
References: Charles Hart, *Manual of Bible History, Vol. I.*
Gigot, *Outlines of Jewish History.*
Hugh Pope, O.P., *Catholic Students' Aid to the Bible.*

A similar course is offered at **Alma College.**

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.*
References: Finlay, *The Church of Christ.*
Finlay, *The Straight Path.*
Benson, *The Religion of the Plain Man.*
Spalding, *Evidences of Catholicity.*
Coupe, *Where is the Church?*
Hull, *Galileo and His Condemnation.*
Vacandard, *The Inquisition.*
Allies, *The See of St. Peter.*
Rivington, *Authority.*
Devas, *The Key to the World's Progress.*
The Catholic Encyclopedia.

21. **Religious Knowledge:** New Testament History; the Maccabean period; Jewish life in the time of Christ; geography of Palestine; Gospel history; first century of Christian era; New Testament readings.

1 hour per week: 1 credit.

Text-book: The New Testament.
References: Charles Hart, *Manual of Bible History, Vol. II.*
Gigot, *Outlines of New Testament History.*
Catholic Students' Aid to the Bible, Vols. II and III.
Seisenberger, *Practical Handbook for the Study of the Bible.*

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.*
References: Wilmers, *Handbook of Christian Doctrine.*
Vaughan, *Thoughts for All Times.*
Windle, *The Church and Science.*
Husslein, *Evolution and Social Progress.*
Gerard, *The Old Riddle and The Newest Answer.*
Benson, *Christ in the Church.*
Newman, *The Present Position of Catholics in England.*

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.*
References: Darras, *General History of the Church, Four Volumes.*
Breuck, *History of the Church, Two Volumes.*
Allies, *Formation of Christendom, Five Volumes.*
Allies, *The Holy See and The Wandering of the Nations.*
Allies, *Peter's Rock in Mohammed's Flood.*
Dolan, *The Papacy and The First Councils of the Church.*
Pastor, *The Lives of the Popes.*
Montalembert, *The Monks of the West.*
Belloc, *Europe and the Faith.*

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.*
References: Wilmers, *Handbook of Christian Doctrine.*
Wirth, *Divine Grace.*
Coupe, *Lectures on the Holy Eucharist.*
Vassal-Phillips, *Catholic Christianity.*
Hart, *Catholic Doctrine.*
Vaughan, *Life after Death.*
Cardinal Gibbons, *Faith of our Fathers.*
The Catholic Encyclopedia.

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.*
References: Breuck, *History of the Church, Two Volumes.*
Darras, *General History of the Church, Four Volumes.*
MacCaffrey, *History of the Church from the Renaissance to the French Revolution, Two Volumes.*
MacCaffrey, *History of the Church in the XIX Century, Two Volumes.*
Pastor, *The Lives of the Popes.*
Grisar, *Life of Luther.*
Gasquet, *England Under the Old Religion.*
Chesterton, *A Short History of England.*
Gairdner, *Lollardy and the Reformation, Four Volumes.*

Offered at Waterloo College only.

19. A thorough study of the book of Genesis, stressing especially its spiritual and devotional values.

1 hour per week: 1 credit.

Text-book: The Bible.

29. A similar study of the Book of Acts, and one of the shorter Pauline Epistles.

1 hour per week: 1 credit.

Text-book: The Bible.

39. As in 29 but requiring a much more extensive and thorough knowledge of the Scriptures. The Course will alternate between the Old Testament and New Testament Literature.

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-book: Jacobs, *A Summary of Christian Faith.*

48. **Church History:** lectures, prescribed reading and essays. Christian Antiquity and Mediaeval Church History, from the Birth of Christ to the year 1500 A.D. Given in 1928-29.

2 hours per week: 2 credits.

49. **Church History:** lectures, prescribed reading and essays. The Reformation Period and Modern Church History. Not given in 1928-29.

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.,	Instructor
W. H. TRETHEWEY, M.A.,	Instructor
A. CÉLIÈRES, L. ès L., B. Paed.,	Instructor

Alma College

MRS. HARRIET DOBSON, B.A.,	Instructor

Assumption College

REV. L. J. BONDY, PH.D.,	Professor
REV. P. J. BART, M.A.	Lecturer

Ursuline College

M. M. ST. ANNE, M.A.,	Professor
M. M. MARIE, B.A.,	Instructor

Waterloo College

DEAN A. O. POTTER, PH.D.,	Professor

FRENCH

10. **Intermediate French:** grammar, dictation, conversation, translation into French, and some training in literary appreciation.

3 hours per week: 3 credits.

Text-books: Mérimée, *Carmen and Other Stories* (Ginn).
Lesage, *Gil Blas* (Heath).
Hugo, *La Chute* (American).
Theuriet, *L'Abbé Daniel* (Holt).
Molière, *Le Médecin malgré Lui* (Heath).
Labiche and Delacour, *La Cagnotte* (Heath).
Carnahan, *French Review Grammar* (Heath).

20. **Advanced French:** dictation, conversation and prose composition.

Prerequisite: French 10.

3 hours per week: 3 credits.

Text-books: Méry, *Deux Contes* (Oxford).
Toqueville, *Voyage en Amérique* (Heath).
Balzac, *Un Episode sous la Terreur* (Blackie.)
Maurey, *Rosalie* and *Le Chauffeur* (Ginn).
Corneille, *Le Cid* (Holt).
Molière, *Le Bourgeois Gentilhomme* (Heath).
Daudet, *Lettres de mon Moulin* (Nelson).
Fraser and Squair, *French Grammar*, Part II (Heath).
Lowe and Coindreau, *French Composition Book* (Holt).

30. **Outline of French Literature:** dictation, conversation and prose composition.

Prerequisite: French 20.

3 hours per week: 3 credits.

Text-books: Abry and Crouzet, *Histoire de la Littérature Française* (Didier).
Des Granges, *Morceaux Choisis* (Hatier).
La Fayette, *La Princess de Clèves* (Ginn).
Voltaire, *Zadig and other Stories* (Heath).
Dumas, *Les Trois Mousquetaires* (Heath).
Hémon, *Maria Chapdelaine* (Grasset).
La Brête, *Mon Oncle et Mon Curé* (American).
Estaunié, *L'Appel de la route* (Ginn).
Delpit, *Contemporary French Lyrics* (Ginn).
Lowe and Coindreau, *French Composition Book* (Holt).

35. **Scientific French:** a course in the reading of scientific French, from text-books or journals in class, 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.

Text-book: Williams, *Technical and Scientific French* (Heath).

37. **French Conversation:** a course in practical spoken French. Open to students taking 30 or 200.

1 hour per week: 1 credit.

40. **The French Drama:** conversation and free composition. Students taking this course are advised to take French 47.

Prerequisite: French 30.

3 hours per week: 3 credits.

Text-books: Dondo, *Pathelin et autres Pièces* (Heath).
Corneille, *Polyeucte* (Heath).
Racine, *Andromaque* (Garnier).
Molière, *Les Femmes Savantes* (Holt).
Marivaux, *Le Jeu de l'amour et du hasard* (Heath).
Sedaine, *Le Philosophe sans le savoir* (Oxford).
Hugo, *Ruy Blas* (Holt).
Musset, *Trois Comédies* (Heath).
Pailleron, *Le Monde où l'on s'ennuie* (Ginn).
Becque, *Les Corbeaux* (Heath).
Rostand, *Cyrano de Bergerac* (Oxford).
Brieux, *Blanchette* (Heath).
Maeterlinck, *Pelléas et Mélisande* (Holt).

45. **Scientific French:** an advanced course in the reading of scientific French from text-books or journals in class, 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.

Text-book: Williams, *Technical and Scientific French* (Heath).
Outside reading to be assigned.

47. **French Conversation, Advanced:** a continuation course in spoken French. Open to students taking French 40, 300 or 400.

1 hour per week: 1 credit.

Honour Courses

100. **Introduction to French Literature:** conversation, dictation and 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: Méry, *Deux Contes* (Oxford).
Hémon, *Maria Chapdelaine* (Macmillan).
Rostand, *Cyrano de Bergerac* (Oxford).
Dow and Skinner, *Contes des romanciers naturalistes* (Heath).
Balzac, *Le Colonel Chabert* (Blackie).
Hugo, *Hernani* (Ginn).
Beaumarchais, *Le Barbier de Seville* (Heath).
Molière, *Le Bourgeois Gentilhomme* and *Le Médecin malgré lui* (Heath).
Racine, *Nicomède* (Macmillan).
Fraser and Squair, *French Grammar*, Part II (Heath).
Lowe and Coindreau, *French Composition Book* (Holt).

200. **The Literature of the Seventeenth Century:** French Classical Drama (second semester); lectures, reading, discussion, dictation and reports. Prescribed for honours in Modern Languages and Romance Languages; optional for honours in English and History.

Prerequisite: French 100.

3 hours per week: 3 credits.

Text-books: Schinz and King, *Seventeenth Century French Readings* (Heath).
Corneille, *Le Cid, Horace, Cinna, Polyeucte* (Garnier).
Boileau, *L'Art poétique* (Hachette).
Racine, *Andromaque, Britannicus, Phèdre, Athalie, Esther* (Garnier).
Molière, *Les Précieuses ridicules, Les Femmes savantes, Tartuffe, Le Misanthrope* (Oxford).
Perrault, *Contes* (Colin).
Mme. de Lafayette, *La Princesse de Clèves* (Ginn).
Saint-Simon, *Mémoires* (Nelson).
References: Des Granges, *Histoire de la littérature française* (Hatier).
Cousin, *La Société française au XVIIè siècle.*
Wright, *French Classicism* (Harvard Univ. Press).

201. **Prose Composition and Conversation.**

Prerequisite: French 100.

1 hour per week: 1 credit.

Text-books: Lowe and Coindreau, *French Composition Book* (Holt).

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.

Text-books: Schinz, *Eighteenth Century Readings* (Holt).
Montesquieu, *Lettres persanes* (Oxford).
LeSage, *Turcaret* (Heath), *Gil Blas* (Heath), *Le Diable boiteux* (Renaissance du livre).
Voltaire, *Zaïre, Contes* (Heath).
Marivaux, *Le Jeu de l'amour et du hasard* (Heath).
Diderot, *Selections* (Hachette).
Rousseau, *Essai sur l'inégalité* (Oxford).
Beaumarchais, *Le Mariage de Figaro* (Oxford).
Les Encyclopédistes (Renaissance du livre).
Taine, *L'Ancien Régime* (Heath).
Prévost, *Manon Lescaut* (Crès).
Sedaine, *Le Philosophe sans le savoir* (Oxford).

301. **French Composition and Conversation.**

Prerequisite: French 201.

1 hour per week: 1 credit.

Text-book: Bassett, *La Carte de France* (Holt).

302. **French Civilization:** its social, political, industrial and aesthetic evolution; a background course for students of French. Required for Honour Romance Languages.

Prerequisite: French 200, or 30.

2 hours per week: 2 credits.

Text-books: Rambaud, *La Civilisation française.*
Hourticq, *L'Art en France.*

400. **The Literature of the Nineteenth Century:** lectures, reading, conversation and essays in French; prescribed for Honour Modern Languages and Romance Languages.

Prerequisite: French 300.

3 hours per week: 3 credits.

Text-books: Henning, *French Lyrics of the Nineteenth Century.*
Sand, *Mauprat.*
Hugo, *Hernani, Notre Dame de Paris.*
Balzac, *La Recherche de l'absolu, Le Père Goriot.*
Gautier, Selections.
Augier, *Le Fils de Giboyer.*
Dumas, *La Question d'argent.*
Flaubert, *Trois Contes.*
Zola, *La Débâcle.*
Taine, *Introduction à l' Histoire de la littérature anglaise.*
Renan, *Souvenirs d'enfance et de jeunesse.*
Bourget, *Le Disciple.*
France, *M. Bergeret.*
Des Granges, *Histoire de la littérature française.*
References: Lanson, *Histoire de la littérature française,* Petit de Julleville, Pellisier, Brandes, Brunetière, Faguet, etc.

401. **Advanced Composition and Grammar.**

Prerequisite: French 301.

1 hour per week: 1 credit.

Text-book: Armstrong, *Syntax of the French Verb* (Holt).

402a. **Phonology and Morphology of Old French:** lectures, translation, reports.

Prerequisite: French 302.

2 hours per week, one term: 1 credit.

Text-books: Luquiens, *An Introduction to Old French Phonology and Morphology.*
Paris, *La Littérature française au moyen age.*
Jenkins, *La Chanson de Roland* (Heath).
Suchier, *Aucassin et Nicolette.*
Paris, *Anthologie du moyen âge* (Hachette).

402b. **The Literature of the Sixteenth Century:** lectures, translation, reports.

Prerequisite: French 402a.

2 hours per week, one term: 1 credit.

Text-books: Du Bellay, *Oeuvres choisies.*
Des Granges, *Morceaux choisies.*
Wright, *Selections from Montaigne* (Heath).
Ronsard, *Poésies choisies.*
Marot, *Poésies choisies.*

Courses Leading to the Degree of M.A.

500. Old French and Philology.

502. Contemporary French Poetry.

504. The Literature of French Canada.

506. Advanced French Composition.

ITALIAN

100. Grammar, pronunciation, translation of simple texts; prescribed for second year students in Honour Romance Languages.

3 hours per week: 3 credits. Not given 1928-1929.

Text-books: Russo, *Elementary Italian Grammar* (Heath).
Wilkins, *Italia* (Chicago Press).
Wilkins-Altrocchi, *Italian Short Stories* (Heath).
De Amicis, *Cuore* (Heath).
Manzoni, *I Promessi Sposi* (Heath).

200. **Introduction to Italian Literature:** composition; prescribed for third year students in Honour Romance Languages.

Prerequisite: Italian 100.

3 hours per week: 3 credits.

Text-books: Grandgent, *Italian Grammar* (Heath).
Grandgent, *Italian Prose Composition* (Heath).
Dante, *La Divina Commedia* (Heath).
Manzoni, *I Promessi Sposi* (Heath).
Oxford Book of Italian Verse.

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: Warshaw-Bonilla, *The Elements of Spanish* (Lessons 1 to 70).
Schevill, *A First Reader in Spanish* (Holt).
Alarcón, *El Capitán Veneno* (Holt).
Pérez Escrich, *Fortuna* (Heath).
Carrión y Aza, *Zaragüeta* (Heath).
Valdés, *La Hermana San Sulpicio* (Holt).
References: Ford, *Gatherings from Spain* (Everyman).
Bensusan, *Home Life in Spain.*

200. **Spanish Drama in the Nineteenth Century:** lectures, reading, translation, discussion and reports.

Prerequisite: Spanish 100 or equivalent.

2 hours per week: 2 credits.

Text-books: Bretôn de los Herreros, *La Independencia* (Scribner).
Moratin, *El Sí de las Niñas* (Ginn).
Garcia Gutiérrez, *El Trovador* (Heath).
Hartzenbusch, *Los Amantes de Teruel* (Heath).
Zorilla, *Don Juan Tenorio* (Casa Editorial Maucci).
Núñez de Arce, *El Haz de Leña* (Heath).
Echegaray, *O Locura ó Santidad* (Heath).
Tamayo y Baus, *Un Drama Nuevo* (Allyn and Bacon).
References: Martin Hume, *Modern Spain.*
González Blanco, *La Literatura Española en el Siglo XIX.*
Collateral and Reference reading to be assigned.

201. **Grammar, Composition and Conversation.**

Prerequisite: Spanish 100 or equivalent.

1 hour per week: 1 credit.

Text-books: Warshaw-Bonilla, *The Elements of Spanish* (Lessons 70 to 105).
Cool, *Spanish Composition.*

202. **Spanish Drama:** prescribed for Honour Spanish students of the second year along with Spanish 200 and 201.

1 hour per week: 1 credit.

Text-books: Moratin, *La Comedia Nueva* (Methuen).
Hartzenbusch, *La Coja y el Encojido* (Holt).
Tamayo y Baus, *Lo Positivo* (Holt).
Ayala, *Consuelo* (Holt).

300. **The Contemporary Spanish Novel:** lectures, reading, translation, discussion, reports.

Prerequisite: Spanish 200 or equivalent.
2 hours per week: 2 credits.

Text-books: Fernan Caballero, *Un servilón y un liberalito* (Heath).
Alarcón, *El sombrero de tres picos* (Holt).
Alarcón, *Novelas Cortas* (Heath).
Valera, *Pepita Jiménez* (Heath).
Valdés, *José* (Heath).
Galdós, *Doña Perfecta* and *Marianela* (Heath).
Blasco Ibáñez, *La Barraca* (Holt).
Isaacs, *María* (Holt).
References: Fitzmaurice-Kelly, *History of Spanish Literature.*
J. D. M. Ford, *Main Currents of Spanish Literature.*
Menéndez y Pelayo, *Orígenes de la Novela.*
González Blanco, *Historia de la Novela en España.*
La Literatura Española en el Siglo XIX.
Hume, *Modern Spain.*

301. **Grammar, Composition and Conversation.**

Prerequisite: Spanish 201 or equivalent.
1 hour per week: 1 credit.

Text-book: Ramsey, *Spanish Grammar* (Lessons I-XXVI).

302. **Contemporary Drama and Verse:** lectures, reading, translation, discussion, reports.

Prerequisite: Spanish 200, 202.
2 hours per week: 2 credits.

Text-books: Hills and Morley, *Spanish Lyrics*, pp. 151-224 (Holt).
Coester, *Anthology of the Modernista Movement in Spanish America* (Ginn).
Marquina, *Las Hijas del Cid* (Heath); *Las flores del Aragon* (Century).
Benavente, *Tres Comedias* (Heath).
Linares Rivas, *El Abolengo* (Heath).
Quinteros, *Doña Clarines, Mañana del Sol* (Heath), *La Flor de la Vida* (Heath); *Puebla de las mujeres* (Century), *Las de Cain* (Allyn and Bacon).
Martínez Sierra, *El Palacio Triste, Canción de Cuna* (Ginn).
References: Coester, *The Literary History of South America.*
González-Blanco, *Los Dramaturgos Españoles Contemporáneos.*

400. **Spanish Drama from its Origins to the Seventeenth Century.**

Prerequisite: Spanish 300, or its equivalent.
2 hours per week: 2 credits.

Text-books: Miracle Plays and Dialogues,
Northup, *Ten Spanish Farces* (Heath).
Lope de Vega, *Amar sin Saber a Quien* (Holt).
El Mejor Alcalde el Rey, La Moza de Cântaro (Holt).
Tirso de Molina, *Don Gil de las Calzas Verdes* (Holt).
Guillén de Castro, *Las Mocedades del Cid* (La Lectura).
Ruiz de Alarcón, *La Verdad Sospechosa* (La Lectura) and *Las Paredes Oyen* (Holt).
Calderón de la Barca, *Three Plays* (Heath).
El Alcalde de Zalamea (Heath).
Oxford Book of Spanish Verse, pp. 1-120.
References: Moratín, *Orígines del Teatro Español.*
Azorín, *Al Margen de los Clásicos.*
Ticknor, Menéndez y Pelayo, Fitz-Maurice Kelly, Hurtado, Crawford, Northup.

401. **Advanced Composition and Conversation.**
Prerequisite: Spanish 301 or equivalent.
1 hour per week: 1 credit.

Text-book: Ramsey, *Spanish Grammar* (Lessons (XXVII-LII).

402. **Spanish Ballad and Lyric Poetry and Early Novel.**
Prerequisite: Spanish 302 or equivalent.
2 hours per week: 2 credits.

Text-books: Menéndez y Pelayo, *Antologia, Vol. VIII, El Conde Lucanor, La Celestina* (La Lectura), *Lazarillo de Tormes* (La Lectura).
Cervantes, *Don Quijote, Novelas.*
Oxford Book of Spanish Verse, pp. 1-240.
References: Menéndez y Pelayo, *Antologia de Poetas Liricos Castellanos, Vols. XI-XII.*
Puymaigre, *La Cour Littéraire de Don Juan II.*

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.

Text-books: *Poema del mio Cid.*
Libro de Apolonio (Johns Hopkins Press).
References: Menéndez Pidal, *Manual de Gramatica Historica.*
Ford, *Old Spanish Readings* (Ginn).

DEPARTMENT OF SECRETARIAL SCIENCE

MARGARET THOMPSON, Graduate Kensington College, London, England, Instructor
JESSIE D. FRASER, B.A., Assistant
MABEL A. HYND, 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 repeat an entire year.

25b. **Tabular and Graphic Construction:** instruction and practice involved in graphic and tabular methods of analysis and presentation.

1 hour a week, one term: ½ credit.

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. Should a student remain more than six weeks in any one speed section she must drop to the section below, and repass the test at the lower speed. 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.

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 words per minute in shorthand, transcribed at 10 words per minute on the typewriter.

Section C: 50 and 60 words per minute in shorthand, transcribed at 12 and 15 words per minute respectively on the typewriter; work in centering and setting out on the typewriter.

12 hours per week: 6 credits.

Prerequisites: First year General Course without conditions: tests in spelling and writing.

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 D: 70 and 80 words per minute in shorthand transcribed on the typewriter at 20 words per minute.

Section E: 90 and 100 words per minute in shorthand transcribed at 25 and 30 words per minute, respectively, on the typewriter; typing from manuscript and tabular work. Minimum typing speed required, 50 words per minute.

12 hours per week: 6 credits.

Prerequisite: 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 F: 110 and 120 words per minute in shorthand transcribed at 35 words per minute on the typewriter. Minimum typing speed required, 60 words per minute.

6 hours per week: 3 credits.

Prerequisite: Secretarial Science 38-39, Section E.

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.*
References: Taylor, *The Virgin Birth.*
Orr, *The Resurrection of Jesus.*
Headlam, *The Miracles of the New Testament.*

31. **Christian Theism.** Belief in the existence of God; arguments:

(a) Cosmological.
(b) Teleological.
(c) Moral.

2 hours per week for the first term: 1 credit.

Text-books: Harris, *Pro Fide.*
Gore, *Belief in God.*
References: Galloway, *Religion and Modern Thought.*
Sorley, *The Ideal of God.*
Harris, *Creeds or No Creeds?*

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 religion and their values.

2 hours per week for the second term: 1 credit.

Text-books: Menzies, *History of Religion.*
Watson, *Religions of the World.*
References: Toy, *Introduction to the History of Religion.*
Hastings, *Encyclopedia of Religion and Ethics.*

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.

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.

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.

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.

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
PROFESSOR MCKEGNEY

30. **Early Church History.** From the beginning of the Christian Church to A.D. 461.

2 hours per week: 2 credits.

Text-books: Foakes-Jackson, *The History of the Christian Church from the Earliest Times to A. D.* 461.
References: Gwatkin, *Early Church History.*
Rainy, *The Ancient Catholic Church.*

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).
Reference: Stephens and Hunt, *History of the Church of England.*

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.)
Reference: Stephens and Hunt, *History of the Church of England.*

42. **History of the Reformation.**

2 hours per week: 2 credits.

Text-book: Fisher, *The Reformation.*
References: Lindsay, *History of the Reformation, Two Volumes.*
Cambridge Modern History, Vols. I, II, III, IV.

DEPARTMENT OF ZOOLOGY

University College

A. D. ROBERTSON, M.A.,	Professor
J. D. DETWILER, PH.D.,	Associate Professor
*HELEN BATTLE, M.A.,	Instructor
NELDA WRIGHT, M.A.,	Demonstrator
EARL ZILLER,	Technician

Assumption College

REV. T. A. MCDONALD, B.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.

Prerequisites: Junior Matriculation.

Text-books: Shull, *Principles of Animal Biology.*
Shull, *Laboratory Directions in Principles of Animal Biology.*
Hyman, *A Laboratory Manual for Elementary Zoology.*

11b. **Invertebrate Zoology:** for premedical students of the first year; a course dealing with selected invertebrate types in which comparative anatomy, physiology and general disease relationships will be stressed.

2 lectures and 4 laboratory hours per week, second term: 2 credits.

Prerequisite: Botany 11a.

Text-books: Borradaile, *Manual of 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.*

21. **Comparative Anatomy:** for premedical students of the second year; a course dealing with the structure and evolution of the Chordates.

2 lectures and 4 laboratory hours per week: 4 credits.

Prerequisite: Zoology 11b.

Text-books: Kingsley, *Comparative Anatomy of the Vertebrates.*
Hyman, *A Laboratory Manual for Elementary Zoology.*
Hyman, *A Laboratory Manual for Comparative Anatomy.*
Newman, *Vertebrate Zoology.*

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*On leave, 1927-28.

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.*

31. **Elementary Entomology:** an elementary course dealing with the structure, development, life histories, economic relationships and classification of representative insects.

2 lectures and 4 laboratory hours per week: 4 credits.

Prerequisite: Zoology 20.

Text-books: Comstock and Kellogg, *Insect Anatomy.*
Comstock, *An Introduction to Entomology.*

32. **Elementary Embryology:** a course dealing with the elementary principles of animal development.

2 lectures and 4 laboratory hours per week: 4 credits.

Prerequisite: Zoology 22.

Text-book: McEwen, *Text-book of Vertebrate Embryology.*

33. **Elementary Experimental Zoology:** a course dealing with elementary animal reactions, simple physiological principles and other 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: Jennings, *Behaviour of the Lower Organisms.*
Sharpey-Schafer, *Experimental 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-book: Newman, *Readings in Evolution, Genetics and Eugenics.*

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, 305 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.*

305. **Invertebrate Collection:** for students in Honour Biology. Before entering on the third year of the Honour Biology Course students will be required to make a specified collection of Invertebrate forms. For particulars, apply to the professor in charge of the Invertebrate courses.

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 300 and Botany 300; or Zoology 30 and Botany 30.

Text-books: Newman, *Readings in Evolution, Genetics and Eugenics.*
Locy, *Biology and Its Makers.*
Kellogg, *Darwinism of To-day.*
Bateson, *Mendel's Principles of Heredity.*
Morgan, *Experimental Zoology.*
Osborn, *Origin and Evolution of Life.*
Morgan, *Physical Basis of Heredity.*
Punnet, *Mendelism.*

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 hours per week: 4 credits.

Prerequisite: Zoology 300.

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 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 hours per week for one term: 2 credits.

Prerequisites: Zoology 300 and Botany 300.

Text-book: Jordan, *Text-book of Histology.*

404. **Embryology:** for Honour Biology students; a course dealing with the embryology of animals.

8 hours per week for one term: 2 credits.

Prerequisites: Zoology 300 and Botany 300.

Text-book: McEwen, *Text-book of Vertebrate Embryology.*

405. **Vertebrate Collection:** for students in Honour Biology. Before entering on the fourth year in the Honour Biology course, students will be required to make a specified collection of Vertebrate forms. For particulars apply to the professor in charge of the Chordate courses.

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 to 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 hours per week: 2 credits.

Prerequisite: Zoology 300.

Text-books: Pratt, *Manual of the Common Invertebrate Animals.*
Pratt, *Manual Vertebrate Animals.*
Newman, *Vertebrate Zoology.*
References: Bronn, *Klassen und Ordnungen des Thierreichs.*
Lankester, *Treatise on Zoology.*
Cambridge Natural History.

DEGREES CONFERRED IN 1927

DOCTOR OF LAWS

William Duncan Ross
James Henry Coyne

MASTER OF ARTS

Eric Adolf Bock
Margaret Murray Scott Crawford
Alice Maddeford Darch
James Edgar Dean
Donald Wallace Ferguson
Merwin Ansley Garland
Adelaide Ellen Haggart
Lorne Alexander Matheson
James John Talman

MASTER OF SCIENCE

Elliott Nichol Ballantyne
Arthur Augustus James
Wray Devere Marr Lloyd
Earle Macbeth Watson

DOCTOR OF MEDICINE

Anna Marion Brown
Golden Wellington Bruner
William Gordon Coleman
Gerald Robert Collyer
James Gordon Dunlop
Sydney Bruce Fraleigh
Verne Gordon Ghormley
William Macauley Gilmore
George William Hall
James Herbert Humphries
Hugh Dugald McColl
James Stuart McGregor
Gordon Russell MacKay
John Malcolm McWilliam
Howard Carman Moloy
Harold George Pink
Oscar Clinton Powers
George Walter Robinson
Alexander Laird Story
George Harrison Rutherford Seaman
Ivan Hamilton Smith
William Hugh Montague Thomson

BACHELOR OF ARTS

(University College)

Roy Herman Allin
Nelson Alexander Andrews
Harold Frederick Gaviller Appleyard
Walter Edward Bagnall
Harry Dowzer Ball
Kenneth Campbell Banting
Edna Mabel Barbour
Erma LaNora Berry
Mary Ethel Bondy
Richard John Bowen
Hilliary Buchan-Tindall
Alexander Gordon Calder
Estelle Gertrude Carney
Evelyn Cawthorpe
Willa Chambers
Helen Lucile Clark
Helen Louise Clarke
Franklin Charles Coombs
Josephine Coughlin (Sister Margaret)
Elmer Bolton Linton
Harry Brownlee Loft
George Henry McGuffin
Jean Alexandra McIntosh
Christina Jean MacKerracher
Annie Elizabeth McLean
John James Patrick McManus
Jean Lillian McRobert
Sarah Belle Grace McRobert
Harold S. Meade
Harriet Blanche Mitchell
Frances Kathleen Montgomery
Oliver Moorehouse Morgan
Alton Abbott Neil
Harold Robert Newell
Freida Eleanor Nobbs
Raymond Del O'Brien
Alfred Ottewell
Miriam Elizabeth May Pearson

Grace Mildred Cress
Hugh Gordon Crozier
Mary Margaret Dawson
Marion Louise Drew
Florence Gertrude Ead
George Norman Edwards
Philip John Fallona
Melford Walter Farley
Evan Roy Gill
Sylvia Jessica Granger
Ella Larue Harvey
Frances Ann Hillebrand
Clara Viola Hodgins
Richard Becher Hungerford
Charles Hubert James
Harry Clarence Laird
John Keith McBroom Laird
Marion Charlotte Laschinger
Florence Emeline Quinn
Laura Ramm
Lionel Rinn
Clarence Basil Routley
Thomas William Tulett Sampson
Albert Ernest Smith
William Kenneth Vivian Smith
William James Squire
Henry Archibald Stevens
Hal Burgess Stevens
Clarence Earle Stewart
Sextus Kent Stiles
Marion Rooke Stinson
Garnet Walker Trevithick
Mary Immaculate Rose Turner
Verda Taylor Vincent
Mary Edith Wilkey
Muriel Anne Willis

(Ursuline College)

Aileen Margaret Bailey
Anastasia Mary Fuerth
Dorothy Hope
Philip Austin Mugan
Kathleen Wallace

(Assumption College)

Philip Austin
John Owen Higgins
Norman Raymond Langlois
James Edward Martin
John Clement McIntyre
Patrick L. McManus
Timothy Lawrence McManus
Norman Joseph Murphy
John Charles Edward Murray
George Denis O'Leary

(Waterloo College)

John Edward Miller
Harry William Baetz
Norman Alfred George Keffer
Carl Frederick Klinck
Albert William Lotz
Garnet Rinehart Schultz

CERTIFICATE OF PUBLIC HEALTH NURSE

Harriet Brydon
Helen L. Brydon
Carlotta Celesta Courtice
Greta Ada Hardy
Emma Selina Maylor
Margaret Murray Millman
Mildred Irene Thomas
Jean Wilson

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SUMMARY OF REGISTRATION IN FACULTY OF ARTS 1927-1928

Year	University College	Ursuline College	Assump'n College	Huron College	Alma College	Waterloo College	Totals
First	187	10	30	3	3	6	239
Second	158	10	7	1	..	4	180
Third	84	14	5	2	..	4	109
Fourth	75	16	15	4	..	12	122
Fifth	11	1	....	..	..	....	12
Specials	31	24	....	3	..	3	61
Extramurals	59	....	....	..	..	....	59
Summer School	79	....	....	..	..	....	79
Duplicates	57	....	....	..	..	....	57
Totals	81 546	75	57	13	3	29	804

REGISTRATION IN FACULTY OF ARTS 1922-23—1927-28

Year	University College	Ursuline College	Assumption College	Huron College	Alma College	Waterloo College	Duplicates	Net Totals
1922-23	326	40	47	20	....	....	....	433
1923-24	462	55	33	27	....	....	47	530
1924-25	526	59	32	22	....	....	55	584
1925-26	650	52	45	20	3	31	81	720
1926-27	676	65	44	16	....	33	54	780
1927-28	684	75	57	13	3	29	57	804