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WESTERN UNIVERSITY

LONDON, CANADA

COLLEGES OF ARTS



ANNOUNCEMENT 1923-1924

WESTERN UNIVERSITY

LONDON, CANADA

COLLEGES OF ARTS



ANNOUNCEMENT 1923-1924

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1923

JULY						
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CALENDAR OF COLLEGES OF ARTS

1923

September 15, Saturday.....Last day for receiving applications for removal of conditions.

September 24, Monday.....Examinations for removal of conditions, *Colleges of* Arts, begin.

October 1, Monday.....Registration Day.

October 2, Tuesday.....Lectures begin.

October 3, Wednesday.....Last day for registration except on penalty of one dollar.

October 10, Wednesday.....Last day for registration except on penalty of two dollars.

October 15, Monday.....Last day of registration for all except Special Students in the Colleges of Arts.

Thanksgiving Day, Monday....Holiday.

December 19, 5.00 p.m., Wednesday.....Christmas Vacation begins.

1924

January 3, 8.00 a.m., Thursday.....Lectures resume.
Last day for submitting outline of M.A. Theses.

January 21, Monday.....Examinations, first term, begin.

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

January 28, Monday.....Second term begins.

January 28, Monday.....Last day for payment of second term fees.

April 16, 5.00 p.m., Wednesday.....Easter Vacation begins.

April 24, Thursday.....Lectures resumed in Colleges of Arts.

May 10, Saturday.....Lectures for the second term in the Colleges of Arts close.

May 12, Monday.....Examinations for the second term in the Colleges of Arts begin.

May 24, Saturday.....Interscholastic Athletic Meet.

May 30, Friday.....Convocation.

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DEAN H. W. HILL,	*Institute of Public Health*
DR. A. J. SLACK,	*Institute of Public Health*
DR. R. C. DEARLE,	*Institute of Public Health*
DR. F. W. LUNEY,	*Institute of Public Health*
DR. K. P. R. NEVILLE,	*Institute of Public Health*
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PROFESSOR W. C. SHARPE,	*Assumption College*
REV. H. POCOCKE,	*Ursuline College*
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MR. F. LANDON,	*Graduates of College of Arts*
DR. R. FERGUSON,	*Graduates of Medical School*
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MR. W. LANE,	*County Council of Huron*
MR. J. H. SMITH,	*County Council of Kent*
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MR. N. E. BIRTCH,	*County Council of Oxford*
MR. A. A. COLQUHOUN,	*County Council of Perth*

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Chancellor

THE HONOURABLE WILLIAM J. ROCHE, M.D., LL.D., M.P.

President

No Appointment.

Executive Secretary

LT.-COL. W. J. BROWN, B.S.A., LL.M.

Executive Committee

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OFFICERS OF INSTRUCTION

(The year of first appointment to present professorial position is given. A in brackets after a name indicates the staff of Assumption College; M, the Medical School; PH, the Faculty of Public Health; U, the staff of Ursuline College, and W, the staff of the University College of Arts.

President

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A.B., University of Missouri, 1908; A.M., *ibid*, 1909; Ph.D., Tulane University, 1912; M.D., Johns Hopkins, 1916; Chief of the Department of Pathology. 1920

MOTHER M. CARMEL (U) *Professor of Englis*
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M.A., Columbia, 1922. 1922

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B.A., Toronto, 1911. 1919

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M.B., Toronto, 1898; F. A. C. P., 1919; Head of the Department of Pharmacology. 1914

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VERY REV. D. L. DILLON (A), *Professor of Classics*
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ROBERT FERGUSON (M), *Professor and Chief, Department of Obstetrics and Gynecology*
B.A., Toronto; M.D., Western, 1890. 1913

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B.A., McMaster, 1900; M.A., *ibid*, 1906; Ph.D., Johns Hopkins, 1911; F.R.S.C., 1922; Dean of University College of Arts. 1917

HIBBERT WINSLOW HILL (PH,M,W), *Professor of Public Health*
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M.D., Western, 1892; F.A.C.P., 1919; Chief of Department of Medicine. 1920

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CHARLES CLIFFORD MACKLIN (M),
Professor of Histology and Embryology
37 Gerrard St.
M.B., Toronto, 1914; M.D., *ibid*, 1918. 1921

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245 Queen's Ave.
M.D., Western, 1902. 1913

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484 Colborne St.
B.A., Toronto, 1903; M.B., *ibid*, 1910; M.D., München, 1911; F.R.S.C., 1922; Chief of Department of Physiology. 1914

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190 Bridport St.
B.A., Queen's, 1896; M.A., *ibid*, 1897; B.A., Harvard, 1898; M.A., *ibid*, 1899; Ph.D. Cornell, 1901; F.A.G.S., 1921; Registrar of the University. 1908

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B.A., Queen's, 1888; M.A., *ibid*, 1895; Post Graduate, Clark 1901-3. 1906

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Lecturer in English
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454 St. James St.
B.A., Toronto, 1910. 1915

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Lecturer in Science
B.A., Western, 1921. 1921

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

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B.A., Liverpool, 1907; M.A., Western, 1926. 1919

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694 Talbot St.
Ph.B., Cornell, 1899; M.A., Columbia, 1904; Ph.D., Cornell, 1908. 1919

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Lecturer in Greek Philosophy
B.A., Toronto, 1914; B.D., Catholic University of America, 1915; M.A., *ibid*, 1915. 1919

ALBERT JOSIAH SLACK (PH, W), *Professor of Chemistry*
Institute of Public Health
Ph.C., Massachusetts College of Pharmacy, 1904; M.D., Western, 1920; Chief of the Division of Chemistry. 1910

GEORGE A. SMITH, *Director of Physical Education*
40 Belgrave Place
M.D., Western, 1913. 1922

EARL GROVER STURDEVANT (W), *Professor of Chemistry*
15 Picton St.
A.B., Indiana, 1915; A.M., *ibid*, 1916; Ph.D., Michigan, 1920. 1920

WILLIAM FERGUSON TAMBLYN (W),
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B.A., Toronto, 1895; Ph.D., Columbia, 1900. 1902

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M.D., Western, 1900. 1913

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B.A., Western, 1920. 1921

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M.D., Western, 1898. 1913

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B.A., Cambridge, 1890; M.A., *ibid*, 1902; M.A., McGill, 1906; D.D., Western, 1915; Principal of Huron College. 1902

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B.A., Toronto, 1905; B.D., Montreal Presbyterian College, 1908; M.A., Ph.D., Heidleberg, 1911. 1915

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B.A., Cambridge, 1889; M.A., *ibid*, 1893. 1919

SEDLEY NELSON BEST (PH,W), *Associate Professor of Chemistry*
Institute of Public Health
Pharm.D., Massachusetts College of Pharmacy, 1911; Ph C., *ibid*, 1912. 1913

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M.D., Western, 1909. 1913

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REV. CHARLES DONOVAN (A),
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B.A., Toronto. 1919

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472 Queen's Ave.
B.Sc., Chicago; Ph.D., *ibid*, 1921. 1921

GEORGE CARLETON HALE (M), *Associate Professor of Medicine*
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M.D., C.M., McGill. 1919

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B.A., Toronto, 1915; M.A., *ibid*, 1916. 1919

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M.B., Toronto, 1903. 1913

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B.A., Queen's, 1919; M.B.A., Harvard, 1921. 1922

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

GEORGE H. STEVENSON (M), *Associate Professor of Psychiatry*
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M.B., Toronto. 1922

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B.A., McGill, 1916; M.Sc., *ibid*, 1919; Ph.D., Cambridge, 1921. 1921

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B.A., Queen's, 1912; M.A., *ibid*, 1913; Ph.D., Cornell, 1921. 1921

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B.A., Mt. Allison, 1917; M.A., *ibid*, 1919. 1921

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B.Sc., New Brunswick, 1916; M.Sc., Queen's, 1921. 1922

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B.A., Western, 1912; M.D., *ibid*, 1917. 1917

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Medical School
M.D., Western, 1922. 1922

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M.D., Western, 1912. 1916

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B.A., Western, 1917; LL.B., *ibid*, 1921; Osgoode Hall, 1921. 1921

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A.B., M.D., Johns Hopkins. 1921

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1920

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FINLEY E. PERRIN (W), *Lecturer in Economics*
227 Grand Ave.
B.A., Toronto, 1892; Barrister-at-Law, 1898. 1915

REV. J. H. POCOCK (U), *Instructor in Philosophy*
St. Peter's Seminary
B.A., Toronto, 1915. 1920

FRANK HARTON PRATTEN (M),
Instructor in Medicine (Tuberculosis)
Queen Alexandra Sanitorium
M.B., Toronto, 1911. 1921

LEONARD WILFRED PRITCHETT (M), *Instructor in Surgery*
376 Wellington St.
M.D., Western, 1919. 1922

GEORGE A. RAMSAY (M), *Instructor in Surgery*
443 Clarence St.
M.D., Western, 1910. 1919

MARJORIE ROSS (W), *Instructor in Library Science*
124 Albert St.
B.A., Toronto, 1916. 1918

REV. GEORGE BLOOMFIELD SAGE (W), *Lecturer in Philosophy*
225 Wharncliffe Rd.
B.A., Trinity, 1880; B.D., *ibid*, 1887; M.A., *ibid*, 1910; D.D., Western, 1909. 1908

HERMAN E. SCHAEF (M), *Instructor in Anatomy*
1225 Dundas St.
M.D., Western, 1905. 1913

REV. J. J. SHERIDAN (A), *Lecturer in History*
B.A., Toronto, 1915; M.A., Catholic University of America, 1917. 1919

W. P. TEW (M), *Instructor in Obstetrics and Gynecology*
385 Waterloo St.
M.D., Toronto, 1917. 1920

JEAN ISABEL WALKER (W), *Lecturer in Public Speaking*
411 King St.
L.C.M. 1920

JAMES WILLIAM WESTERVELT, JR. (W), *Lecturer in Accountancy*
C.A., Institute of Chartered Accountants. 1920

JOHN CAMERON WILSON (M), *Instructor in Surgery*
M.D., Western, 1910. 1919

ARTHUR WOODS (W), *Instructor in Mathematics*
562 Ridout St.
B.A., Queen's, 1911; M.A., *ibid*, 1915. 1920

JOHN CHARLES SINCLAIR BATTLEY (M), *Assistant in Pediatrics*
392 Dundas St.
M.B., Toronto. 1922

HAROLD SMITH LITTLE (M), *Assistant in Pediatrics*
King and Waterloo Sts.
M.B., Toronto. 1922

MARGARET ANNE MCINTOSH (W), *Assistant in Biology*
826 King St.
B.A., Western, 1921. 1921

MARY M. MCLEAN (PH, W), *Assistant in Chemistry*
544 Waterloo St.
B.A., Western, 1919. 1919

GRACE MOORE (PH), *Assistant in Bacteriology*
B.A., Toronto,1918. 1920

IDA GERTRUDE ROWNTREE (W), *Assistant in Chemistry*
60 Stanley St.
B.A., Western, 1919. 1920

HECTOR MURRAY SIMPSON (M), *Assistant in Anatomy*
Victoria Hospital
M.D., Western, 1922. 1922

OTHER OFFICIALS

HELEN BATTLE, *Student Assistant in Biology*
HELEN BERDAN *Student Assistant in Biology*
CLAUDE MCCALLUM, *Student Assistant in Biology*
DONA WALLER, *Student Assistant in Library*
MARGARET BURNS, *Secretary to Dean of Medical School*
9 Dundas St.
EDITH PARR, *Assistant Medical School Library*
FREDERIC W. CLAASSENS, *Technician in Biology*

LE ROY W. CROCKER, *Deputy Bursar, Medical School*
158 Victoria St.

KATE M. GILLESPIE, *Assistant in Library*
164 Albert St.
B.A., McGill, 1921.

MABEL HYND, *Secretary to the President*
234 St. George St.

MARGARET ELSIE PICKLES, *Secretary to the Registrar*
336 Ridout St. South

ETHEL SULLIVAN, *Librarian, Medical School*
873 Hellmuth Ave.

GENERAL INFORMATION

Western University is composed of three units, the College of Arts, the Medical School and the Institute of Public Health; affiliated with the University are two colleges teaching Arts courses, viz., Assumption College at Sandwich, and Ursuline College, London; also one theological college, Huron, of London.

By the 1908 amendments to the act incorporating Western University, 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 Arts Department of Western University total about 50,000 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 collection 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 Western University 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 Divinity (B.D.); Bachelor of Laws (LL.B.); Master of Arts (M.A.); Doctor of Medicine (M.D.); *Doctor of Divinity (D.D.)

RELATION TO OTHER UNIVERSITIES

The Council of the Senate of Cambridge University has recommended that Western University be adopted as an institution affiliated with the University of Cambridge and that graduates in Arts of Western University be entitled to be admitted to the privileges of affiliation provided that they have attended classes in this University for a period of at least two years and that in one or more of the examinations held by the University for the Degree of Bachelor of Arts they have satisfied the examiners in one language, in addition to Latin and English, and in Mathematics.

Western University College of Arts is recognized as a "Standard College" by Columbia University, New York; by Cornell University, Ithaca, New York, and by the regents of the College of the State of New York.

*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.

Colleges of Arts

University College

President
Vacant

Dean
WILLIAM SHERWOOD FOX, PH.D., F.R.S.C.

Secretary
A. WOODS, M.A.

Chairman of Committee on Academic Standing
K. P. R. NEVILLE, PH.D.

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

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

Officers of Instruction

RAYMOND C. DEARLE, PH.D.,
Professor of Physics.

WILLIAM SHERWOOD FOX, PH.D., F.R.S.C.
Professor of Classics.

NATHANIEL CHAMNEY JAMES, PH.D.,
Professor of German.

HAROLD R. KINGSTON, PH.D.,
Professor of Mathematics.

K. P. R. NEVILLE, PH.D.,
Professor of Classics.

WILLIAM JOHN PATTERSON, M.A.,
Professor of Mathematics.

ALBERT DUNCAN ROBERTSON, B.A.,
Professor of Biology.

LEWIS PIAGET SHANKS, PH.D.,
Professor of Romance Languages.

ALBERT J. SLACK, PH.C., M.D.,
Professor of Chemistry.

EARL G. STURDEVANT, PH.D.,
Professor of Chemistry.

GEO. A. SMITH, M.D., M.C.,
Director of Physical Education.

WILLIAM FERGUSON TAMBLYN, PH.D.,
Professor of English Literature.

CHARLES CAMERON WALLER, M.A., D.D.,
Professor of Hebrew.

LOUIS AUBREY WOOD, B.D., PH.D.,
Professor of Political Economy.

HENRY W. AUDEN, M.A.,
Associate Professor of Classics.

SEDLEY NELSON BEST, PHARM.D., PH.C.,
Associate Professor of Chemistry.

ARTHUR G. DORLAND, M.A.,
Associate Professor of History.

NELSON C. HART, M.A.,
Associate Professor of Biology.

ELLIS H. MORROW, B.A., M.B.A.,
Associate Professor of Commercial Economics.

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

JOHN D. DETWILER, PH.D.,
Assistant Professor of Biology.

OSCAR F. W. ELLIS, M.A.,
Assistant Professor of Romance Languages.

EDMOND A. MÉRAS, B.A., L. ès L.,
Assistant Professor of Romance Languages.

JAMES A. SPENCELEY, M.A.,
Assistant Professor of English.

E. EVELYN ALBRIGHT, B.A.,
**Instructor in English.*

RAY LEROI ALLEN, M.A.,
Instructor in Physics.

CHARLES JAMES BELL,
Lecturer in Commercial Economics.

JAMES W. BURNS, M.SC.,
Instructor in Chemistry.

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*Instructor is a title given in the University College of Arts to one who gives full time to the work of instruction in Western University. The lecturer is of the same grade as the instructor but gives only part time to the work of instruction.

FRANK H. CURRAN, B.A., LL.B.,
Lecturer in Commercial Economics.

WILLENA FOSTER, M.A.,
Instructor in Physics.

H. W. HILL, M.D., D.P.H.,
Lecturer in Public Health.

ERNEST W. JEWITT, B.A.,
Lecturer in Philosophy.

FRED LANDON, M.A.,
Lecturer in History.

WILLIAM R. MCINTOSH, B.A., B.D.,
Lecturer in Philosophy.

LESLIE ROSS MÉRAS, PH.D.,
Instructor in Romance Languages.

JEAN T. NEVILLE, B.A.,
Lecturer in English.

FINLEY E. PERRIN, B.A.,
Lecturer in Political Economy (Law).

EDYTHE PRYCE,
Instructor in Physical Training.

MARJORIE ROSS, B.A.,
Instructor in Library Science.

GEORGE BLOOMFIELD SAGE, M.A., D.D.,
Lecturer in Psychology and Ethics.

JEAN I. WALKER,
Lecturer in Public Speaking.

JAMES W. WESTERVELT, JR., C.A.,
Lecturer in Accounting.

ARTHUR S. WOODS, M.A.,
Instructor in Mathematics.

MARGARET MCINTOSH, B.A.,
Assistant in Biology.

IDA GERTRUDE ROWNTREE, B.A.,
Assistant in Chemistry.

Assumption College

President

VERY REV. D. L. DILLON, B.A.

Registrar

REV. W. C. SHARPE, M.A., B.D.

Bursar

REV. E. J. WELTY, B.A.

Officers of Instruction

REV. LOUIS J. BONDY, B.A.
Professor of French.

REV. CHARLES COUGHLIN, B.A.,
Professor of Psychology.
Lecturer in English.

VERY REV. D. L. DILLON, B.A.,
Professor of Classics.

REV. J. C. PLOMER,
Professor of Religious Knowledge.
Lecturer in English.

REV. W. G. ROGERS, B.A.,
Professor of Mathematics.
Lecturer in Science.

REV. W. C. SHARPE, M.A., B.D.,
Professor of Latin.
Lecturer in Greek Philosophy.

REV. E. J. TIGHE, B.A.,
Professor of Metaphysics.

REV. E. J. WELTY, B.A.,
Professor of German.
Lecturer in Philosophy.

REV. CHARLES DONOVAN, B.A.,
Associate Professor of English.

C. S. ESTEVES, B.A.,
Lecturer in Spanish.

A. B. MCINTYRE, B.A.,
Lecturer in Mathematics.

REV. J. J. SHERIDAN, M.A.,
Lecturer in History.

Ursuline College
(Brescia Hall)

Dean

M. M. ST. ANNE, M.A.

Registrar

M. M. ST. MICHAEL, M.A.

Officers of Instruction

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

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

M. M. St. MICHAEL, M.A.,
Professor of History.

REV. A. P. MAHONEY,
Lecturer in Religious Knowledge.

REV. J. H. POCOCK, B.A.,
Lecturer in Philosophy.

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 and September of each year.

The September Matriculation Examinations will be open only to the following:

(1) Candidates who, having written at a previous examination on papers sufficient to complete their qualifications for graduation diplomas, or for entrance into the universities or professional schools, apply to write on papers in which they failed.

(2) Teachers actually engaged in teaching during the previous school year.

(3) Industrial candidates who are able to submit a certificate according to the form in use before the examinations of 1922.

(4) Candidates who were prevented by sickness, domestic affliction or other causes beyond their control from writing at the June examination. Such candidates must prove to the satisfaction of the Matriculation Board the sufficiency of the alleged cause of absence.

(5) Candidates who are at least twenty years of age.

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.

Percentages: Honour

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

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-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 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 Certificates

(a) Equivalents *pro tanto* of Junior Matriculation are:

Prince Edward Island	Second Class.
Nova Scotia	Grade XI.
New Brunswick	Second Class.
	Academy Grade III.
Quebec	University School AA.
	Model School Diploma (75 per cent.).
Manitoba	Grade XI.
Alberta	Grade XI.
Saskatchewan	Grade XI.
British Columbia	Intermediate.
Newfoundland	Intermediate (50 per cent. required).

(b) Equivalents of Honour Junior Matriculation are:

Prince Edward Island	First Class.
Nova Scotia	Grade XII.
New Brunswick	First Class.
Saskatchewan	Grade XII.
Alberta	Grade XII.
British Columbia	Senior Academic.
Manitoba	Grade XII.
Newfoundland	Associate (75 per cent.; but allowance on Associate examinations will be given only in English, Latin, Greek and French).

ADMISSION

All intending students of Western University 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 20th.

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; and, in addi-

tion, certificates showing one of the three qualifications enumerated below:

(a) Credit (50 per cent.) in any two *subjects* of the Upper School.

(b) First Class standing (75 per cent.) in any four *papers* of the Middle School examination.

(c) Second Class standing (66 per cent.) in any six *papers* of the Middle School examination.

Candidates who present complete Pass Junior Matriculation and a successful completion of the second class professional work at one of the Normal Schools of the Province of Ontario will be considered to have satisfied the requirements demanded above for admission.

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 Course.

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 Courses in Political Science or Philosophy and may complete the course in three years.

Honour Courses: By First and Second Years General Course

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 Upper School certificates that will secure twelve credits toward graduation. 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 Political Science require four years from complete Pass Junior Matriculation.

ADVANCED STANDING

From Collegiates

Candidates presenting Upper School certificates in one or more subjects, or the recognized equivalents of such certificates, may be credited with the first year in the General Course in the subjects corresponding to the certificates except in the case of the Laboratory Sciences.

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. These official documents must include certificate of honorable dismissal from the institution last attended. No student can register in Western University if he cannot re-register in the institution from which he wishes to transfer.

SPECIAL STUDENTS

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

EXAMINATIONS

General Course

Regular examinations will be held for the General Arts Course 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.

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.

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

Students in the General Course in Arts shall be ranked in order of merit in each subject in five grades, A, B, C, D, E. The minimum for grade A shall be 70 per cent. of the marks; for grade B, 60 per cent.; all who secure less than 60 per cent. but not less than 50 per cent., the minimum for pass, will be placed in grade C. A mark that falls in class D, 40 to 49 per cent., entitles the student to a supplemental, subject to the regulations governing supplementals (see page 30). Grade E, 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 C on all the prescribed and elective work of his course and who has not obtained grade B on at least one-half the credits required for his degree and grade B 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.

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

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 67 per cent. and less than 75 per cent. will be placed in Class II; those who obtain 60 per cent. and less than 67 per cent. will be placed in Class III; those who obtain 50 per cent. but less than 60 per cent. will be placed in Class IV.

SUPPLEMENTALS

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.

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 E 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.

FAILURES

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.**

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 supplemental, 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.

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 his 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.

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.

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 three years of College Greek, one-half of which, however, may be New Testament or Patristic Greek.

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 pass courses (see Pages 26, 27).

No extramural student is eligible for a degree, unless he has attended classes in this University for at least one academic year or four summer sessions.

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. extramural 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 com-

pleted four summer terms or their equivalent in the B.A. General Course or Honour Courses. Courses in the Sciences and in the elements of any foreign language 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 from Monday to Friday inclusive. The curriculum of each subject offered in the Summer Session is, according to the nature of the subject, either one-third or 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 requirement 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 extramural 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. 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 of the requirements for the whole year in that course.

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 Science must attend two summer sessions.

7. A student who attends four summer sessions and obtains twelve credits for work taken therein will be considered to have satisfied the residence requirement exacted of extramural students of 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 to those who are registered in one of the Honour Courses leading to Specialists' Certificates of the Department of Education of Ontario.

For complete information concerning the Summer School one must consult the Summer School Announcement; this may be had by applying to the Director or to the Registrar of the University.

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 (67 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.

Graduates in Arts of this University, who in the 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 A rank in at least 21 credits, of which 15 lie in the College of Arts, may be admitted as candidates for the Degree of Master of Arts.

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 17th; the candidate shall then be placed 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 the University College of Arts for at least one academic year, 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 (67 per cent.) in it, if it lie in an Honour Department, or 70 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 (67 per cent.) therein and whose thesis is satisfactory, may be granted the Master's Degree.

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

Thesis

Each candidate shall present a thesis embodying the result of his own investigation. The subject of the thesis must lie in the College 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 1st.

A type-written 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 Political Science from Western 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.

MEDALS, SCHOLARSHIPS AND PRIZES

I. UNIVERSITY

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

Botany.
Chemistry.
Commercial Economics.
English.
French.
Geology.
German.
Greek.
History.
Latin.
Physics.
Political Economy.
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 Scholarships, Seventy-five dollars each in:

FIRST YEAR HONOUR COURSES—
Department of Biology.
Chemistry.
Classics.
English and History.
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 History.
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.
Commercial Economics.
English and History.
English and French.
English and German or Spanish.
French and German or Spanish.
Geology.
Mathematics and Physics.
Romance Languages.
General Science.

FOURTH YEAR HONOUR COURSES—
Department of Commercial Economics.

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

Alumnae Scholarship. Fifty dollars to the woman student of the Third Year who secures the highest standing.

Blake Scholarship, No. 1. Seventy-five dollars, Honour Political Economy Course, Fourth Year.

Blake Scholarship, No. 2. Fifty dollars, Honour Political Economy Course, Third Year.

Blake Scholarship, No. 3. Twenty-five dollars, Honour Political Economy Course, 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.

Nicholas Wilson Chapter, I. O. D. E. Scholarship. Twenty-five dollars; second Year Honour Commercial Economics Course.

Dean's Prize. Fifteen dollars, First Year Latin.

W. W. Tamblyn Prize. Twelve dollars, First Year Public Speaking.

University Prizes. Ten dollars each in:

History 42, 43.
English 30.
History 30.
French 30.
Philosophy 30.
English 20.
Latin 20.
French 20.
English 10.
Mathematics 10, 12.
Physics 10.
Biology 10.
Chemistry 10.

Except in the case of fourth year awards, these Scholarships 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.

I. O. D. E. Post-Graduate Overseas Scholarship.

This scholarship was founded by the Imperial Order Daughters of the Empire as part of the War Memorial of the Order. It is of the value of $1,400.00, tenable for one year in any British University, the subjects of study being

specified as British and Imperial History, the Economics and Government of the Empire and Dominion, or any subject vital to the interests of the Empire. The scholarship is open to men or women, British subjects, unmarried, graduates of a Canadian university or in the last year of course leading to a degree.

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. Duncan B. Gillies, 46 Dinnick Crescent, Toronto, Ont.

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.

II. MATRICULATION

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

Two hundred and fifty dollars a year for four years.

Founded by the Imperial Order Daughters of the Empire as part of its 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 permanently disabled soldier, sailor or member of the Air Force. The scholarship is tenable at any university in Ontario. The holder of the Bursary is granted exemption in Western University from tuition fees up to twenty-five dollars a year for four years.

In awarding the scholarship, the Committee of selection will take into consideration the war service of the candidate and of members of his or her family, and, other things being equal, will give the preference to a returned man, his sister, or his child.

This scholarship will next be awarded to a candidate from Ontario in 1924. Application must be made by October, 1923.

Pass Junior Matriculation Scholarships.

Two scholarships of the value of $100.00 each will be awarded for highest standing on six papers of the June 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.

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 fifty dollars per year for four years in University College of Arts; total value of scholarship, $300.00.

II. Scholarships of fifty dollars 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 fifty dollars per year for two years in the University College of Arts; total value of each scholarship, $150.00.

III. Scholarships of twenty-five dollars 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 fifty dollars in the University College of Arts. Total value of scholarship, $75.00.

The scholarships in I, II and III, above, will not be awarded before the examinations of 1924. 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.

IV. Scholarships of free tuition up to fifty dollars each year for two years for competition in each Collegiate Institute and High School in the Counties named in the Western University Act, viz.: Essex, Kent, Elgin, Norfolk, Brant, Oxford, Middlesex, Lambton, Huron, Bruce, Grey, Perth and Wellington and Waterloo; and all the cities situated therein. The successful candidates must have an average of at least Second Class Honours (65 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 at Western University, beginning the fall following the award.

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

FEES

Tuition fees in full may be paid on Registration Day. If paid in two instalments, half will be payable Registration Day; half, plus $2.00, on or before first day of second term. All other fees except examination fees are payable Registration Day. Students must register and pay the fee for examination before presenting themselves for any papers.

The following fees are payable to the Executive Secretary:

First Registration (for all students on entering)	$ 5 00
Tuition, full course, including examination, one payment	50 00
Tuition, full course, including examination, two payments	52 00
Tuition, Commercial Economics, each year, one payment	60 00
Tuition, Commercial Economics, each year, two payments	62 00
Tuition, Premedical, each year, one payment	60 00
Tuition, Premedical, each year, two payments	62 00
Tuition, each major (1), including examination	12 00
Tuition, each minor, including examination	6 00
Supplemental Examinations (2), each paper, September	2 00
University Examination at dates other than January, May and September	10 00
Examination at a local centre	10 00
Extramural Registration, annual	10 00
Extramural Examinations, annual	5 00
Extramural Correspondence Fee, annual	2 00
Change of Faculty	5 00
Change of Registration, after two weeks from Registration Day	1 00
Admission *ad eundem statum*	5 00
Certificate of Standing	2 00
Physical Training, each year	5 00
Students' Council Fee, each year	4 00
Caution Money (3), each year	5 00
Microscope Rental, each instrument, each year	5 00
Laboratory Fee, each science, each year	3 00
Degree of B.A.	10 00
Degree of M.A.	20 00
Degree of LL.B.	20 00
Degree of B.D.	24 00

NOTE—(1) A major subject is a subject for which at least two credits are given; a minor, one credit. English Composition (English 12,22) by exception is a major subject.

(2) A supplemental examination is an examination set on work in which a student has been conditioned. No special supplemental examination will be given within three months of failure.

(3) Caution money, minus deduction for breakage, etc., will be returned at end of year.

ACADEMIC STANDING FOR 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. SPECIALISTS' CERTIFICATES

Subject to the conditions specified below, the academic standing for admission to the courses leading to High School Specialists' 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 Western University.

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 for 1923-24, instead of those of 1920-21.

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. Under the direction of the University they may substitute for one of those years, at least two Summer Sessions.

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 (67 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.

REQUIREMENTS FOR DEGREES

The system of numbering employed in the designation of courses in this Announcement is this: A course that is usually given to students in the first year of the General Course is numbered somewhere between 10 and 19; courses for second year students in the General Course fall between numbers 20 and 29; for third year students in the General Course between 30 and 39, and for fourth year students in the General Course between 40 and 49. Courses usually given for first year students in an Honour Course are numbered somewhere between 100 and 199; for second year students in an Honour Course between 200 and 299; for third year between 300 and 399, and for fourth year between 400 and 499. A course given in the first term only is designated by the letter "a" following the number; in the second term only by "b" following the number. Courses numbered from 1 to 9 are preparatory courses offered in a few subjects for which adequate provision for beginning work is not made in the Collegiates and High Schools of Ontario. Courses indicated by a number followed by "G" are especially designed to meet the needs of candidates for the degree of Master of Arts. Thus German 30a means a course for third year students and offered in the first term only; Physics 400 is an honor course in Physics open to the fourth year Honour students.

B.A. GENERAL 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.

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

First Year

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

Second Year

English 20	2	2
English 21	1	1
English 22	1	1
Latin 20	3	3
Physical Training 20 or 21	2	1
And any *nine* credits from the following:		
History 20	3	3
Mathematics 20, 23b or 27b, 24	3	3
Mathematics 25a and 25b	2	2

Subject	*Hours Per Week*	*Credits*
French 20	3	3
German 20	3	3
Greek 20	3	3
Hebrew 20	3	3
Botany 20, Zoology 20	6	4
Chemistry 20	6	4
Physics 20	5	3
Geology 20	4	3
Political Economy 20	2	2
Philosophy 20	1	1
Philosophy 21	1	1
Italian 200	3	3
Spanish 200	3	3
†Religious Knowledge 20	1	1
†Religious Knowledge 21	1	1
History 105	2	2
*French 10	3	3
*German 10	3	3
*Greek 10	3	3
*Hebrew 10	3	3
*Botany 10, Zoology 10	6	4
*Chemistry 10	6	4
*Physics 10	5	3
*Italian 100	3	3
*Spanish 100	3	3

Third Year

English 30	3	3
History 30	3	3
Philosophy 30	2	2
Philosophy 31	1	1
And at least *six* credits from the following:		
French 30	3	3
German 30	3	3
Greek 30 or 40	3	3
Hebrew 30	3	3
Latin 30 or 31 or 40	3	3
Political Economy 30	2	2
Physical Training 30-40 or 31-41	2	1
Botany 30, Zoology 30	5	3
Chemistry 30	5	3
Physics 30	5	3
History 301	2	2
Italian 300	3	3
Spanish 300	3	3
Geology 30	5	3
English 31	2	2
†Religious Knowledge 30	2	2
†Religious Knowledge 31	1	1

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

†Offered by Assumption and Ursuline Colleges only.

Subject	*Hours Per Week*	*Credits*
*History 20	3	3
*Mathematics 20, 23b or 27b, 24	3	3
*Mathematics 25a, 25b	2	2
*French 20	3	3
*German 20	3	3
*Greek 20	3	3
*Hebrew 20	3	3
*Botany 20, Zoology 20	6	4
*Chemistry 20	6	4
*Physics 20	5	3
*Geology 20	5	3
*Political Economy 20	2	2
*Philosophy 20	1	1
*Philosophy 21	1	1
*Italian 200	3	3
*Spanish 200	3	3
Fourth Year		
English 40, 41, 42	3	3
History 40	3	3
History 42, 43	3	3
And at least *six* credits from the following:		
French 40	3	3
German 40	3	3
Greek 40 or 30	3	3
Latin 40 or 30 or 31	3	3
Hebrew 40	3	3
Italian 400	3	3
Spanish 400	3	3
History 44	2	2
Physical Training 30-40 or 31-41	2	1
Political Economy 40	2	2
Geology 40	3	2
Chemistry 40	5	3
Botany 40, Zoology 40	5	3
Philosophy 40	2	2
†Religious Knowledge 40	2	2
†Religious Knowledge 41	1	1
¶Philosophy 45 (Metaphysics)	1	1
*French 30	3	3
*German 30	3	3
*Hebrew 30	3	3
*Political Economy 30	2	2
*Botany 30, Zoology 30	5	3
*Chemistry 30	5	3
*Physics 30	5	3
*Spanish 300	3	3
*Italian 300	3	3
*Geology 30	5	3
*English 31	2	2
*History 301	2	2

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

†Offered by Assumption and Ursuline Colleges only.

¶Available only at Ursuline College.

THEOLOGICAL OPTIONS

Theological students in affiliated colleges pursuing the General Course are restricted in their choice of options as follows:

Second Year—History 20 and Philosophy 20 must be taken.

Third Year—Theism or Evidences and Philosophy 21 must be taken for one of the options.
Biblical Greek (Greek 35) may be substituted for Greek 30 or 40.

Fourth Year—Biblical Greek (Greek 45) may be substituted for Greek 40 or 30.
Church History and Biblical Literature may be substituted for six optional credits.

NOTE—Church History calls for a course of lectures with mid-year and final examinations in the period of early church history (one hour a week), and either the earlier or the later period of English Church History (not less than two hours a week).
Theism, two hours a week. Lectures, essays and examinations.
Biblical Literature. Lectures two hours a week for two sessions (total, four hours) and examinations.

THE B.A. HONOUR COURSES

Department of Biology

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

This course satisfies the academic requirements for the Science Specialist's certificate of the Department of Education of Ontario. For conditions, see page 43.

N.B.—Students in Honour Biology must satisfy the Heads of the Departments of Botany and Zoology that they can read Scientific French and German with sufficient ease to use these languages in research work. They will be credited with these subjects in the third and fourth years on the certificate of the Heads of the Departments mentioned and of the Departments of Romance Languages and German.

First Year

Subject	*Hours Per Week*	*Credits*
Library Science 10a	1	½
Physical Training 10 or 11	2	1
English 11	1	1
French 1 or German 1 (the one not taken at Matriculation)	3	3
Mathematics 24	2	1
Botany 100 (one term)	6	2
Chemistry 100	5	3
Geology 200	4	3
Physics 100	5	3
Zoology 100 (one term)	6	2

Second Year

Physical Training 20 or 21	2	1
English 20	2	2
English 22	1	1

Subject	*Hours Per Week*	*Credits*
German 10 or French 10 (language taken in first year)	3	3
Botany 200 (one term)	8	2½
Chemistry 300	5	3
Physics 201	9	5
Zoology 200 (one term)	8	2½

Third Year

History 42, 43	3	3
Botany 300 (one term)	8	2½
Botany 301 (one term)	6	2
Botany 305 (Collection)	..	..
Chemistry 400a (one term)	5	1½
Chemistry 303b (one term)	6	2
Zoology 300	8	5
Zoology 305 (Collection)	..	..

Fourth Year

Botany 401 (one term)	8	2½
Botany 402 (one term)	6	2
Botany 403 (one term)	6	2
Botany 405 (Collection)	..	..
Zoology 400	2	2
Zoology 401 (one term)	8	2½
Zoology 402 (one term)	8	2½
Zoology 403 (one term)	8	2½
Zoology 404 (one term)	8	2½
Zoology 405 (Collection)	..	..

Department of Chemistry

Requirements for Admission—Complete Pass Junior Matriculation with Honour Matriculation in English, Chemistry Physics and Mathematics (Algebra, Geometry and (Trigonometry).

Note—If Botany 100 and 200 and Zoology 100 and 200 are substituted for Geology 200a, 200b and 300, this course will be accepted by the Ontario Department of Education for the Science Specialist's Certificate.

Note—Students in Honour Chemistry must satisfy the Head of the Department of Chemistry that they can read Scientific French or German with sufficient ease to use this language in research work. They will be credited with this subject in the third and fourth years on the certificate of the Head of the Department mentioned and of the Department of Romance Languages or German.

First Year

Subject	*Hours Per Week*	*Credits*
English 11	1	1
French 10 or German 10	3	3
Library Science 10a	1	½
Mathematics 102a	2	1
Mathematics 24	1	1

Subject	*Hours Per Week*	*Credits*
Geology 100	4	3
Chemistry 100	7	4
Chemistry 102	4	2
Physical Training 10 or 11	2	1
Second Year		
English 20	2	2
English 22	1	1
French 20 or German 20	3	3
Physics 100	5	3
Chemistry 201	9	5
Chemistry 300	5	3
Physical Training 20 or 21	2	1
Third Year		
English 30	3	3
Geology 200a and 200b	4	3
Physics 201 (sound, light, electricity and magnetism)	9	5
Chemistry 301	8	5
Chemistry 400	5	3
Fourth Year		
Political Economy 20	2	2
History 42, 43	3	3
Geology 300	5	3
Chemistry 401	9	4
Chemistry 403	6	3
Chemistry 404a, 404b	2	2

Department of Classics

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

This course satisfies the academic requirements for the Classics Specialist's Certificate of the Department of Education of Ontario. For conditions, see page 43.

First Year		
Library Science 10a	1	½
English 11	1	1
Botany 10, Zoology 10	6	4
French 10 or German 10 or Hebrew 10	3	3
Physical Training 10 or 11	2	1
Latin 100	4	4
Greek 100	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 200 (including Roman History)	4	4
Greek 200 (including Greek History)	4	4

Third Year

Subject	*Hours Per Week*	*Credits*
English 30	3	3
Philosophy 30	2	2
Latin 300	5	5
Greek 300	5	5

Fourth Year

History 42, 43	3	3
Latin 400	6	6
Greek 400	6	6

Department of Commercial Economics

Requirements for Admission—Complete Entrance Requirements (See Page 26).

Students entering with Honour Matriculation in English, Mathematics, Latin and one modern foreign language may expect to complete the course in four years.

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

Owing to the fact that the Department of Commercial Economics has but recently been organized, changes in the courses here presented will be inevitable, as experience is gained and as the staff expands. Students are therefore warned that their courses may be altered before they reach graduation. In no instance, however, will a student entering on the basis of this announcement (1923-24) be required to alter his course to his disadvantage. Adjustments when made will consider the students affected.

First Year

B.A. General Course with option of one of French 10, German 10, or Spanish 100 (See Page 44).

Second Year

English 20, 21, 22	4	4
Mathematics 17	1	1
Economics 200	2	2
Economics 201a	2	1
Economics 202b	2	1
One of:		
French 20		
German 20		
Spanish 200	3	3
One of:		
Physics 10		
Chemistry 10		
Botany 10, Zoology 10		
Geology 20	6	4
Physical Training 20 or 21	2	1

Third Year

Subject	*Hours Per Week*	*Credits*
English 39a (Business English)	2	1
History 301	2	2
Economics 300a	3	1½
Economics 403a	2	1
Economics 300b	3	1½
Commerce 300	3	3
Commerce 307	2	2
Commerce 301	2	2
One of:		
Mathematics 20a, 24, 27b		
History 30		
Philosophy 30, 31		
English 30		
French 30		
German 30		
Spanish 300	3	3

Fourth Year

History 404	2	2
Economics 402a	3	1½
Commerce 400	3	3
Commerce 401b	3	1½
Commerce 402a	2	1
Commerce 403	1	1½
Commerce 404b	2	1½
Commerce 405	2	3

Fifth Year

Commerce 501	..	1
Commerce 502	..	3
Special Courses in Industrial Management *or* Special Courses in Sales Management	..	8
Any *three* Credit Options from General Course in Arts for which candidate has prerequisites	3	3

Apply to Registrar for Special Commerce Announcement.

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's 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 43.

First Year

Library Science 10a	1	½
Physical Training 10 or 11	2	1
Botany 10, Zoology 10 or Physics 10 or Chemistry 10	6	4
History 105	2	2
English 100	5	5

Subject	*Hours Per Week*	*Credits*
Any *two* of:		
Latin 100	4	4
Greek 100	4	4
French 100	3	3
German 100 or Spanish 100	3	3
Hebrew 100	4	4
Second Year		
Physical Training 20 or 21	2	1
Political Economy 20	2	2
Philosophy 21	1	1
History 200	3	3
English 200, 201, 202	5	5
Any *two* of:		
Latin 200	4	4
Greek 200	4	4
French 200	3	3
German 200 or Spanish 200	3	3
Hebrew 200	4	4
Third Year		
History 300	3	3
History 301	2	2
English 300 and 301	6	6
Any *one* of:		
Latin 301	3	3
Greek 301	3	3
French 300	3	3
German 300 or Spanish 300	3	3
Hebrew 300	4	4
Fourth Year		
History 402, 403	3	3
History 400	3	3
History 404	2	2
English 400	2	2
English 401	2	2
English 402	2	2
English 403	1	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 a Specialist's Certificate in English and French. For conditions, see page 43.

First Year		
Library Science 10a	1	½
Latin 10	3	3
Botany 10 and Zoology 10, or Physics 10 or Chemistry 10	6	4

Subject	*Hours Per Week*	*Credits*
Physical Training 10 or 11	2	1
French 100	3	3
English 100	5	5
German 100 or Spanish 100	3	3
Second Year		
Latin 20	3	3
Physical Training 20 or 21	2	1
French 200	3	3
German 200 or Spanish 200	3	3
English 200, 201, 202	5	5
History 200	3	3
Third Year		
French 301	1	1
French 300	3	3
English 300, 301	6	6
History 300, 301	5	5
Fourth Year		
French 400, 401	4	4
English 400, 401, 402, 403	7	7
History 400	3	3

Department of English and German or Spanish

Requirements for Admission—Complete Pass Junior 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's Certificate in English and German or Spanish. For conditions, see page 43.

First Year		
Library Science 10a	1	½
Latin 10	3	3
Botany 10 and Zoology 10, or Physics 10 or Chemistry 10	6	4
Physical Training 10 or 11	2	1
German 100 or Spanish 100	3	3
English 100	5	5
French 100	3	3
Second Year		
Latin 20	3	3
Physical Training 20 or 21	2	1
French 200	3	3
German 200 or Spanish 200	3	3
English 200, 201, 202	5	5
History 200	3	3

Third Year

Subject	*Hours Per Week*	*Credits*
French 300	3	3
German 300 or Spanish 300	3	3
English 300, 301	6	6
History 300, 301	5	5

Fourth Year

German 400 or Spanish 400	3	3
German 401 or Spanish 401	1	1
History 400	3	3
English 400, 401, 402, 403	7	7

Department of English and Latin

Requirements for Admission—Complete Pass Junior Matriculation and Honour Matriculation in English, Mathematics (Algebra and Geometry only), Latin and any other one subject.

First Year

Library Science 10a	1	½
Physical Training 10 or 11	2	1
Botany 10, Zoology 10, or Physics 10 or Chemistry 10	6	4
French 10 or German 10	3	3
Greek 1	3	3
English 100	5	5
Latin 100	4	4

Second Year

Physical Training 20 or 21	2	1
French 20 or German 20	3	3
Greek 10	3	3
English 200, 201, 202	5	5
Latin 200	4	4

Third Year

Greek 20	3	3
Philosophy 30	2	2
English 300, 301	6	6
Latin 300	5	5

Fourth Year

History 42, 43	3	3
English 400, 401, 402, 403	7	7
Latin 400	6	6

Department of French and German or Spanish

Requirement 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's Certificate of the Department of Education of Ontario. For conditions, see page 43.

First Year

Subject	*Hours Per Week*	*Credits*
Library Science 10a	1	½
Physical Training 10 or 11	2	1
Latin 10	3	3
Botany, Zoology 10, or Physics 10 or Chemistry 10	6	4
English 100	5	5
French 100	3	3
German 100 or Spanish 100	3	3

Second Year

Physical Training 20 or 21	2	1
Latin 20	3	3
History 105	2	2
French 200	3	3
German 200 or Spanish 200	3	3
English 200, 201, 202	5	5

Third Year

History 42, 43	3	3
French 300, 301	4	4
German 300 or Spanish 300	3	3
English 300, 301	6	6

Fourth Year

French 400, 401	4	4
German 400 or Spanish 400	3	3
German 401 or Spanish 401	1	1
English 400, 401, 402, 403	7	7

Department of French and Latin

Requirements for Admission—Complete Pass Junior Matriculation with 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, Zoology 10 or Physics 10 or Chemistry 10	6	4
English 20, 21, 22	4	4
Latin 100	4	4
French 100	3	3

Second Year

Subject	*Hours Per Week*	*Credits*
Physical Training 20 or 21	2	1
History 105	2	2
German 10 or 20 or Greek 10 or 20	3	3
English 30	3	3
French 200	3	3
Latin 200	5	5

Third Year

English 40, 41	2	2
Philosophy 30	2	2
German 20 or 30 or Greek 20 or 30	3	3
French 300, 301	4	4
Latin 300	5	5

Fourth Year

English 42	1	1
History 42, 43	3	3
French 400, 401	4	4
Latin 400	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; one Science (Physics, Biology or Chemistry).

This course satisfies the academic requirements for the Science Specialist's Certificate of the Department of Education of Ontario. For conditions, see page 43.

N.B.—Text books written in French and German will be prescribed for the honor students in Geology, and they will be credited with their Scientific French and German in the Third and Fourth Years on certificate of the Head of the Department of Geology and the Heads of the Departments of Romance Languages and German if they are satisfied that the students can handle these languages for research purposes.

First Year

Library Science 10a	1	½
Physical Training 10 or 11	2	1
English 11	1	1
French 1 or German 1 (one not taken for Matriculation)	3	3
Chemistry 100	5	3
Physics 100	5	3
Botany 100 (one term)	6	2
Zoology 100 (one term)	6	2
Geology 100	4	3

Second Year

English 20, 22	3	3
French 10 or German 10 (language taken first year)	3	3
Physical Training 20 or 21	2	1

Subject	*Hours Per Week*	*Credits*
Chemistry 200	5	3
Physics 201 (Light and Sound)	5	2
Botany 200, Zoology 200	8	5
Geology 200a, 200b	4	3
Third Year		
Botany 300	8	2½
Mathematics 25a, 25b	2	2
Physics 201 (Electricity and Magnetism)	5	3
Geology 300	5	3
Geology 301, 302, 303	6	5
Zoology 300	8	5
Fourth Year		
History 42, 43	3	3
Biology 400	2	2
Geology 400, 401, 402	20	12

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's Certificate of the Department of Education of Ontario. For conditions, see page 43.

N.B.—Students in Honor Mathematics and Physics must satisfy the Heads of these Departments that they can read Scientific French and German with sufficient ease to use them in research work. They will be credited with the subjects in the Second, Third and Fourth Years on the certificates of the Heads of the Departments of Mathematics, Physics, Romance Languages and German.

First Year		
Library Science 10a	1	½
Physical Training 10 or 11	2	1
English 11	1	1
Chemistry 10	6	4
French 1 or German 1 (the language not taken at Matriculation)	3	3
Physics 100	5	3
Physics 101	3	1
Mathematics 100	1½	1½
Mathematics 101b	2	1
Mathematics 102	1½	1½
Mathematics 103	1	1
Mathematics 104	1	1
Second Year		
Physical Training 20 or 21	2	1
English 20	2	2
English 22	1	1
Physics 200	2	2
Physics 201	9	5

Subject	Hours Per Week	Credits
Mathematics 200	2	2
Mathematics 201a	2	1
Mathematics 202b	2	1
Mathematics 204	2	2
Mathematics 206	1	1

Third Year

Candidates will take either Group I. or Group II. Those wishing to specialize in Mathematics will take Group I.; those in Physics, Group II.

Group I.

English 30	3	3
Physics 303	5	3
Physics 304	1	1
Mathematics 303a	2	1
Mathematics 304	2	2
Mathematics 305a	2	1
Mathematics 305b	2	1
Mathematics 306	2	2
Mathematics 308b	2	1

Group II.

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

Fourth Year

Candidates will take either Group I. or Group II. Those wishing to specialize in Mathematics will take Group I.; those in Physics, Group II.

Group I.

History 42, 43	3	3
Physics 400 or 402	2	2
Mathematics 400a	2	1
Mathematics 402	2	2
Mathematics 403	2	2
Mathematics 404b (optional with 407b)	2	1
Mathematics 407a	2	1
Mathematics 407b	2	1
Mathematics 408	1	1

Group II.

History 42, 43	3	3
Mathematics 400a	2	1
Mathematics 403a	2	1
Physics 400	2	2
Physics 401	2	2
Physics 402	2	2
Physics 404	9	3
Physics 405	1	1

Department of Philosophy

This course is at present open only to students of Assumption College.

First Year

See page 44.

Second Year

Subject	*Hours Per Week*	*Credits*
English 20	2	2
English 22	1	1
Latin 20	3	3
Religious Knowledge 20	1	1
Physical Training 20 or 21	2	1
Philosophy 200	3	3
Philosophy 220	2	2
Philosophy 230	2	2
Three credits from:		
History 20	3	3
Mathematics 20, 23b or 27b, 24	3	3
French 20	3	3
German 20	3	3
Greek 20	3	3
1 Science 20	6	4

Third Year

English 30	3	3
Philosophy 300, 330	3	3
Philosophy 320	3	3
Philosophy 340	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
1 Science 30	5	3
Political Economy 20	2	2

Fourth Year

English 40, 41, 42	3	3
Philosophy 400, 410	3	3
Philosophy 420	3	3
Philosophy 430	3	3
Three credits from:		
French 40	3	3
Latin 40	3	3
Greek 40	3	3
German 40	3	3
History 40	3	3
Religious Knowledge 40, 41	3	3
Political Economy 30 or 40	2	2
1 Science 40	5	3

Department of Physics

See Department of Mathematics and Physics, page 57.

Department of Political Science I.

Subject	*Hours Per Week*	*Credits*
First Year		
English 10	2	2
English 11	1	1
English 12	1	1
Latin 10	3	3
Mathematics 10a	3	1½
Mathematics 12b	3	1½
Public Health 10	1	1
Library Science 10a	1	½
Physical Training 10 or 11	2	1
History 105	2	2
And at least *three* credits from:		
French 10	3	3
German 10	3	3
Greek 1 or 10	3	3
Hebrew 10	3	3
Second Year		
English 20	2	2
English 21, 22	2	2
Philosophy 21	1	1
Physical Training 20 or 21	2	1
Political Economy 200, 201, 202	4	4
History 200	3	3
Any *one* of:		
French 20	3	3
German 20	3	3
Latin 20	3	3
Greek 10 or 20	3	3
Hebrew 20	3	3
Third Year		
English 30	3	3
Political Economy 300, 302	4	4
History 300, 301	5	5
Government and Law 305, 306, 307	3	3
Any *one* of:		
French 30	3	3
German 30	3	3
Latin 30	3	3
Greek 20 or 30 or 40	3	3
Hebrew 30	3	3
Fourth Year		
History 402, 403	3	3
Political Economy 400, 402	4½	4½
Political Economy 403, 404	2	2
History 400, 404	5	5
Government and Law 405, 406, 407, 408	4	4

Department of Political Science II.

This second course is open only to those students who are registered with some recognized Theological body as candidates for the Christian ministry.

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

First Year

Subject	*Hours Per Week*	*Credits*
English 10, 11, 12	4	4
Latin 10	3	3
Mathematics 10a, 12b	3	3
Public Health and Bacteriology 10	1	1
Library Science 10a	1	½
Physical Training 10 or 11	2	1
Greek 1 or 10	3	3
History 20	3	3

Second Year

English 20	2	2
English 21, 22	2	2
Philosophy 21	1	1
Physical Training 20 or 21	2	1
Political Economy 200, 201, 202	4	4
History 200	3	3
Greek 10 or 20	3	3
Hebrew 10	3	3

Third Year

English 30	3	3
Political Economy 300, 302	4	4
History 300, 301	5	5
Philosophy 20	1	1
Theism or Evidences	2	2
Greek 35 or 20a and 35b	3	3

Fourth Year

English 40, 41, 42	3	3
History 402, 403	3	3
Political Economy 400, 402, 403	5½	5½
Ecclesiastical History	2	2
English Church History 1 or 2	4	2
Bible Literature	4	2
Greek 45	3	3

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 43 this course satisfies the academic requirements for the French and Spanish Specialist's Certificate of the Department of Education.

First Year

Subject	*Hours Per Week*	*Credits*
Library Science 10a	1	½
Physical Training 10 or 11	2	1
English 11	1	1
Botany 10, Zoology 10 or Physics 10 or Chemistry 10	6	4
History 105	2	2
French 100	3	3
Italian 100	3	3
Spanish 100	3	3

Second Year

Physical Training 20 or 21	2	1
English 20, 21, 22	4	4
Latin 20	3	3
French 200	3	3
Spanish 200	3	3
Italian 200	3	3

Third Year

Latin 30	3	3
Philosophy 30	2	2
French 300, 301	4	4
Spanish 300	3	3
Italian 300	3	3

Fourth Year

History 42, 43	3	3
French 400, 401	4	4
Italian 400, 401	4	4
Spanish 400, 401	4	4

Department of General Science

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

This course satisfies the academic requirements for the Science Specialist's Certificate of the Department of Education of Ontario. For conditions, see page 43.

First Year

Library Science 10a	1	½
Physical Training 10 or 11	2	1
English 11	1	1
French 1 or German 1 (one not taken at Matriculation)	3	3

Subject	*Hours Per Week*	*Credits*
Botany 100, Zoology 100	6	4
Chemistry 100	7	4
Physics 100	5	3
Geology 100	4	3
Second Year		
English 20, 22	3	3
French 10 or German 10 (language chosen in first year)	3	3
Physical Training 20 or 21	2	1
Mathematics 102a, 24	3	2
Botany 200, Zoology 200	8	5
Chemistry 200	6	3
Physics 201 (Light and Sound)	5	2
Third Year		
History 105	2	2
Geology 200	4	3
Botany 300, Zoology 300	16	7½
Chemistry 300	5	3
Physics 201 (Electricity and Magnetism)	5	3
Fourth Year		
History 42, 43	3	3
Geology 300	4	3
Zoology 400	2	2
Botany 401, Zoology 401 or Botany 402, Zoology 402	8	5
Chemistry 400	5	3
Physics 305 or 403	5	3

The B.A., M.D. Course

Requirements for Admission—Complete Pass Junior Matriculation and Honour Matriculation in English and Mathematics; in either French or German; and in one of Physics, Biology, Chemistry.

First Year		
English 11	1	1
Library Science 10a	1	½
German 1 or French 1 (language *not* previously taken)	3	3
Mathematics 24	1	1
Physical Training 10 or 11	2	1
Physics 100	5	3
Botany 100, Zoolozy 100	6	4
Chemistry 100	7	4
Geology 100	4	3

Second Year

Subject	*Hours Per Week*	*Credits*
English 20	2	2
English 21, 22	2	2
German 10 or French 10 (one not taken for Honour Matriculation)	3	3
Physical Training 20 or 21	2	1
Physics 201 (Sound and Light)	5	2
Biology 200	8	5
Chemistry 200	6	3

Third Year

English 30	3	3
History 42, 43	3	3
Biology 300, 400	10	7
Chemistry 300	5	3
Physics 201 (Electrical and Magnetism)	5	3

Fourth Year

First year of the Four Year Medical Course.

PREMEDICAL COURSE

Requirements for Admission—University Entrance Complete (See Pages 26, 27).

Students who purpose entering Western Medical School must offer the following preliminary educational qualifications.

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

First Year

Library Science 10a	1	½
English 10, 11, 12	4	4
Mathematics 14	2	2
French 10 or German 10	3	3
Physical Training 10 or 11	2	1
Physics 10	5	3
Chemistry 10	7	4
Botany 11a	6	2
Zoology 20b	6	2

Second Year

English 20, 21, 22	4	4
French 20 or German 20	3	3
Chemistry 20a	5	2
Physical Training 20 or 21	2	1
Physics 20	5	3
Chemistry 30	5	3
Zoology 21	6	4

DESCRIPTION OF COURSES

DEPARTMENT OF BOTANY

N. C. HART,	Associate Professor
MARGARET A. MCINTOSH,	Assistant
HELEN I. BATTLE,	Demonstrator
HELEN B. BERDAN,	Demonstrator
CLAUDE M. MCCALLUM,	Demonstrator
F. W. CLAASSENS,	Technician

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

10. **Introductory Botany** for General Course students; a course dealing with the general principles of Botany.
2 lectures and 4 laboratory hours per week; 2 credits.
Prerequisite: Complete College Entrance Requirements.

Text-book: Bergen and Caldwell, *Introduction to 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.*

11. **Elementary Botany** for Medical students; a course dealing with the general principles of Botany.
2 lectures and 4 laboratory hours per week; 2 credits.
Prerequisite: Complete College Entrance Requirements.
Text-book and References—See Botany 10.

20. **Cryptogamic Botany** for General Course students; a course dealing with the Algae, Mosses and Ferns.
2 lectures and 4 laboratory hours per week; 2 credits.
Prerequisite: Botany 10, Zoology 10.

Text-book: Coulter, Barnes and Cowles, *Text-book of Botany, Vol. I.*
References: Strasburger, *Text-book of Botany.*
Grout, *Mosses.*
Marshall, *Mosses and Lichens.*
Campbell, *Mosses and Ferns.*

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

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

Text-book: Coulter, Barnes and Cowles, *Text-book of Botany, Vol. I.*
References: Coulter, *Morphology of Gymnosperms.*
Morphology of Angiosperms.
Strasburger, *Text-book of Botany.*
Gray, *New Manual of Botany.*
Britton and Brown, *Illustrated Flora.*
Jeffery, *Anatomy of Woody Plants.*

40. **Ecology and Economic Botany** for General Course students; a course dealing with the classification, ecology and economic importance of Canadian plants. Special emphasis is placed on the economic Fungi.

2 lectures and 4 laboratory hours per week; 2 credits.
Prerequisite: Botany 30, Zoology 30.

Text-books: Coulter, Barnes and Cowles, *Text-book of Botany. Vol. I.*
Text-book of Botany. Vol. II.
References: Duggar, *Fungous Diseases of Plants.*
Conn, *Bacteria, Yeasts and Molds in the Home.*
Schimper, *Plant Geography.*
Harshberger, *A Text-book of Mycology and Plant Pathology.*

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: Gager, *Fundamentals of Botany.*
References: Bergen and Davis, *Principles of Botany.*
Kerner and Oliver, *Natural History of Plants.*
Coulter, Barnes and Cowles, *Text-book of Botany.*
Strasburger, *Text-book of Botany.*
Ganong, *The Living Plant.*
Bower, *Botany of the Living Plant.*
Ganong, *A Text-book of Botany for Colleges.*

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.
Prerequisite: Botany 100 and Zoology 100.

Text-book: Coulter, Barnes and Cowles, *Text-book of Botany.*
Gray, *New Manual of Botany.*
References: Coulter, *Morphology of Gymnosperms.*
Morphology of Angiosperms.
Strasburger, *Text-book of Botany.*
Goebel, *Organography of Plants.*
Chamberlain, *The Living Cycads.*
Scott, *Structural Botany.*
Stevens, *Plant Anatomy.*

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 Cryptogams.

2 lectures and 6 laboratory hours per week; 2½ credits.

Prerequisite: Botany 200 and Zoology 200.

Text-book: Coulter, Barnes and Cowles, *Text-book of Botany.*
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, *Fresh Water Algae of North America.*
Marshall, *Mosses and Lichens.*

301. **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 4 laboratory hours per week; 2 credits.

Prerequisite: Botany 200, Zoology 200, Botany 305.

Text-book: Gray, *New Manual of Botany.*
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.*
Sargent, *Plants and Their Uses.*
Kraemer, *Applied and Economic Botany.*
Brown, *Forest Products, Their Manufacture and Use.*
Reports of Special Investigations.

305. **Phanerogamic Collection** for students in Honour Biology and Honour Science; before entering on course 301 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 301 above.

400. **Historical Biology.** See Zoology 400.

401. **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.

Prerequisite: Botany 300 or 301 and Zoology 300.

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.*
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 4 laboratory hours per week; 2 credits.

Prerequisite: Botany 300, Zoology 300.

Text-book: Coulter, Barnes and Cowles, *Text-book of Botany.*
Dugger, *Fungous Diseases of Plants.*
References: Marshall, *The Mushroom Book.*
Atkinson, *Mushrooms and Toadstools.*
Harshberger, *Mycology and Plant Pathology.*
Smith, *Bacterial Diseases of Plants.*
Conn, *Bacteria, Yeasts and Molds.*
Bulletins of Departments of Agriculture.
McIlvaine and Macadam, *One Thousand American Fungi.*
Lister, *Mycetozoa.*
Jordan, *General Bacteriology.*

403. **Cytology and Histology** for Honour Biology students; a course dealing with the cytology and anatomy of the Pteridophyta and Spermatophyta.

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

Text-book: Strasburger, *Text-book of Botany.*
Jeffery, *Anatomy of Woody Plants.*
References: Sharp, *An Introduction to Cytology.*
Stevens, *Plant Anatomy.*
Scott, *Structural Botany.*
Hanauseck, *Microscopy of Technical Products.*
Winton, *Microscopy of Vegetable Foods.*
Goebel, *Organography of Plants.*
Haberlandt, *Physiological Plant Anatomy.*
Reports of Special Investigations.

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

Consult with 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.

DEPARTMENT OF CHEMISTRY

A. J. SLACK,	Professor
E. G. STURDEVANT,	Professor
S. N. BEST,	Associate Professor
J. W. BURNS,	Instructor
C. W. CHAPMAN,	Instructor
MISS M. MCLEAN,	Assistant
MISS G. ROWNTREE,	Assistant

Students taking work in this department will be required to make a deposit of five dollars with the Head of the Department to cover breakages. A refund of any remainder will be made at the end of the course taken.

10. **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: Alexander Smith, *General Chemistry for Colleges.*
Alexander Smith, *Laboratory Manual.*

20. **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 and prescribed for second year Premedical students.

1 lecture, 5 laboratory hours per week; 3 credits.

Prerequisite: Chemistry 10.

Text-books: Prescott and Johnson, *Qualitative Chemical Analysis.*
Blasdale, *Principles of Quantitative Analysis.*
Sutton, *Volumetric Analysis.*
Treadwell and Hall, *Quantitative Analysis.*

30. **Organic Chemistry:** a course of lectures and demonstrations on the fatty hydrocarbons and their derivatives: the carbohydrates, proteins, and alkaloids. Laboratory work consists of preparation, identification and estimation of the simpler organic compounds, organic acids, alkaloids, etc. Optional for third year students in the General Course and prescribed for second year Premedical students.

2 lectures and 3 laboratory hours per week; 3 credits.

Prerequisite: Chemistry 20.

Text-books: Perkin and Kipping, *Organic Chemistry.*
Remsen and Orndorff, *Organic Chemistry.*

40. **Physical Chemistry:** a course of lectures with laboratory work in Physico-chemical Measurements. Optional for fourth year students in General Course.

2 lectures and 3 laboratory hours per week; 3 credits.

Prerequisite: Chemistry 10, 20, 30.

Text-books: Lincoln, *Physical Chemistry.*
Findlay, *Practical Physical Chemistry.*

Honour Courses

100. **Inorganic Chemistry:** for Honour Biology, Honour Chemistry, Honour Science and B.A., M.D. students.

A course of experimental lectures and laboratory work in General Chemistry.

2 lectures and 5 laboratory hours per week; 4 credits.

102. **Laboratory Course: Advanced Inorganic Chemistry;** for Honour Chemistry students.

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

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

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

201. **Advanced Qualitative and Quantitative Analysis:** for Honor Chemistry students.

1 lecture, 8 laboratory hours per week; 5 credits.

300. **Organic Chemistry:** for Honour Biology, Honour Science, B.A., M.D. and Honour Chemistry students (second

year); the hydrocarbons and their derivatives; the carbohydrates, etc.; laboratory course upon organic preparations, identification, etc.

2 lectures and 3 laboratory hours per week; 3 credits.

Prerequisite: Chemistry 100, 200.

301. **Advanced Organic Chemistry:** for Honour Chemistry students.

2 lectures and 6 hours laboratory per week; 5 credits.

Text-books: Gatterman.
Cohen, *Advanced Organic Chemistry.*

303b. **Physiological Chemistry:** the chemistry of carbohydrates, fats, proteins; salivary, gastric and intestinal digestion; bile; muscular and nervous tissue; blood, milk, urine, metabolism.

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

Prerequisite: Botany 200 and Zoology 200, Chemistry 100, 200.

400. **Elementary Physical Chemistry:** for third year Honour Chemistry and fourth year Honour Science students; with laboratory work in Physico-chemical measurements.

2 lectures and 3 laboratory hours per week; 3 credits.

Prerequisite: Chemistry 300.

401. **Physico-Chemical Measurements.**
9 laboratory hours per week; 4 credits.

402. **Applied Chemistry.**
1 lecture per week; 1 credit.

403. **Special Problems in Chemistry.**
6 hours per week; 3 credits.

404a. **Advanced Physical Chemistry.**
2 lectures per week during first term; 1 credit.

404b. **History of Chemistry and the Phase Rule.**
2 lectures per week during second term; 1 credit.

DEPARTMENT OF CLASSICS

University College of Arts

DEAN W. S. FOX, Professor
K. P. R. NEVILLE, Professor
H. W. AUDEN, Associate Professor

Assumption College

PRESIDENT D. L. DILLON, Professor
REV. WILFRED SHARPE, Professor

Huron College

PRINCIPAL C. C. WALLER, Professor
REV. F. ANDERSON, 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. Much Latin and Greek will be read at sight in the exercises of the classroom, and 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 and Company, New York; Gildersleeve and Lodge, Heath and Co., Boston; and An Elementary Latin Dictionary, American Book Co.

10. Caesar, *De Bello Civili III;* Cicero, *In Catilinam I;* Horace, *Odes: I*, 1, 2, 4, 5, 9, 10, 14, 22, 24, 31, 38; *II*, 3, 10, 14, 15, 16, 17, 18, 20; *III*, 1, 2, 8, 9, 13, 18, 21, 23, 29, 30; *IV*, 3, 5, 7, 12, 15; composition; sight translation.
3 hours per week; 3 credits.
Prerequisite: Middle School Latin.
DEAN FOX, PROFESSORS SHARPE AND AUDEN.

Texts: Moberly, *Caesar, Civil War* (Oxford).
Upcott, *Cicero, Catilinarian Orations* (Oxford).
Page, *Horace, Odes* (Macmillan Elementary Classics).
Bennett, *New Latin Composition* (Allyn and Bacon).

20. Livy, *XXI-XXX;* Virgil, *Aeneid VI;* selected Latin poetry; composition; sight translation.
3 hours per week; 3 credits.
Prerequisites: Latin 10, or Upper School Latin.
PROFESSORS SHARPE AND AUDEN.

Texts: Sidgwick, *Virgil, Aenied VI* (Macmillan).
C. Georgin, *Tite-Live, Histoire, Troisième Décade* (Hatier).
Freeman, *A Selection of Latin Poetry* (Oxford).
North and Hillard, *Latin Composition* (Copp, Clark).

30. Literature of the Early Empire: Ovid, Horace, Seneca, Tacitus, Pliny the Younger, Juvenal, Martial, Petronius; lectures on the literature and the history of the Empire; composition; sight translation. (To be given in 1923-24).

3 hours per week; 3 credits.

Prerequisite: Latin 20.

PROFESSORS SHARPE AND AUDEN.

Texts: A. C. B. Brown, *Selections from the Latin Literature of the Early Empire* (Oxford).
North and Hillard, *Latin Composition* (Copp, Clark).

31. Cicero, *De Amicitia;* Catullus; Plautus, *Rudens;* Terence, *Andria;* lectures on the literature and the history of the Republic; composition; sight translation. (To be given 1924-25).

3 hours per week; 3 credits.

Prerequisite: Latin 20.

PROFESSORS SHARPE AND AUDEN.

Texts: E. A. Sonnenschein, *T. Macci Plauti Rudens* (Oxford).
E. H. Sturtevant, *P. Terenti Afri Andria* (American).
F. P. Simpson, *Select Poems of Catullus* (Macmillan).
E. W. Bowen, *Cicero's De Amicitia* (Heath).
North and Hillard, *Latin Composition* (Copp, Clark).

40. Cicero, *Letters;* Pliny, *Letters;* Tacitus, *Annals I.;* Virgil, selections from the *Bucolics* and *Georgics;* lectures on the literature of the Ciceronian and Augustan periods; composition; sight translation. (To be given in 1925-26).

3 hours per week; 3 credits.

Prerequisite: Latin 20.

PROFESSORS SHARPE AND AUDEN

Texts: J. W. Scudder, *Sallusti Catilina* (Allyn and Bacon).
W. F. Allen, *Tacitus, Annals* 1-6 (Ginn).
Page, *Virgil, Bucolics and Georgics* (Macmillan).
North and Hillard, *Latin Composition* (Copp, Clark).

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 31 or 40.

1 hour per week, 1 term; ½ credit.

PRINCIPAL WALLER.

Honour Courses

100. 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 (66 per cent.), or Honour Matriculation or Upper School Latin.

PROFESSOR AUDEN.

Texts: C. Georgin, *Tite-Live, Histoire, Troisième Décade* (Hatier).
W. C. Summers, *C. Sallusti Crispi, Iugurtha* (Cambridge).
Freeman, *A Selection of Latin Poetry* (Oxford).
North and Hillard, *Latin Composition* (Copp, Clark).
Gow, *A Companion to School Classics* (Macmillan).

200. Elegiac Poets; Horace, *Epistles;* Catullus; Cicero, *De Amicitia* or *De Senectute;* Pliny, *Letters;* sight translation; composition; Roman literature; history in detail to 272 B.C. (one hour per week, first term).

4 hours per week; 4 credits.

Prerequisite: Latin 100.

PROFESSORS NEVILLE AND AUDEN.

Texts: K. P. Harrington, *The Roman Elegiac Poets* (American).
E. P. Morris, *Horace, Satires and Epistles* (American).
E. W. Bowen, *Cicero's De Amicitia* (Heath).
E. W. Bowen, *Cicero's De Senectute* (Heath).
J. H. Westcott, *Selections from Pliny's Letters* (Allyn and Bacon).
North and Hillard, *Latin Composition* (Copp, Clark).

300. Horace, *Satires;* Juvenal, *Satires;* Persius, *Satires;* Plautus, six comedies; Terence, complete; sight translation; composition; philology; epigraphy; private life of the Romans; Roman literature; history in detail from 272 B.C. to 14 A.D. (one hour per week, first term).

5 hours per week; 5 credits.

Prerequisite: Latin 200.

PROFESSOR AUDEN.

Texts: E. P. Morris, *Horace, Satires* (American).
H. L. Wilson, *Juvenal* (Heath).
Nettleship-Conington, *Persius, Satires* (Oxford).
Plauti Comoediae (Oxford).
S. G. Ashmore, *The Comedies of Terence* (Oxford).
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).

301. Caesar, *De Bello Civili,* and selections from *De Bello Gallico;* Cornelius Nepos; Sallust, *Bellum Catilinae;* Cicero, *In Catilinam;* Tacitus, *Annals I, II;* Suetonius, *Augustus;* history of the literature of the Empire; detailed

history of the last years of the Republic, and of the Empire down to 220 A.D. An option in the Department of English and History.

3 hours per week; 3 credits.

Prerequisite: Latin 200.

PROFESSOR NEVILLE.

Texts: C. E. Moberly, *Caesar's Civil War* (Oxford).
T. Rice Holmes, *Caesar's The Gallic War* (Oxford).
Inge-Browning, *Nepos, Lives* (Oxford).
J. W. Scudder, *Sallust's Catiline* (Allyn and Bacon).
E. A. Upcott, *Cicero, Catilinarian Orations* (Oxford).
C. D. Fisher, *Tacitus, Annals I-VI* (Oxford).
H. T. Peck, *Suetonius* (Holt).

400. Sallust, *Bellum Catilinae;* Tacitus, *Annals I-VI;* Suetonius, *Augustus, Tiberius;* Cicero, *De Officiis, Tusculans I;* Virgil, selections from the *Bucolics, Georgics* and *Aeneid VII-XII;* Lucretius *III, V;* sight translation; composition; Roman public life; Roman literature; history in detail from 14 A.D. to 476 A.D. (one hour per week, first term).

6 hours per week; 6 credits.

Prerequisite: Latin 300.

PROFESSOR AUDEN.

Texts: J. W. Scudder, *Sallust's Catiline* (Allyn and Bacon).
W. F. Allen, *Tacitus, Annals I-VI* (Ginn).
H. T. Peck, *Suetonius* (Holt).
H. A. Holden, *Cicero, De Officiis* (Cambridge).
F. E. Rockwood, *Cicero, Tusculan Disputations I* (Ginn).
Page, *Virgil, Bucolics and Georgics* (Macmillan).
T. E. Page, *Virgil, The Aeneid VII-XII* (Macmillan).
J. H. W. Lee, *Lucretius, De Rerum Natura I-III* (Macmillan).
W. D. Lowe, *Lucretius, De Rerum Natura V* (Oxford).

GREEK

Each student in any of the Greek courses is required to have one or other of the following two Greek grammers: W. W. Goodwin, Ginn and Co., New York; H. W. Smyth, American Book Co., New York; and either the unabridged or the abridged edition of Liddell and Scott's Greek Lexicon (Oxford).

1. **Elementary Greek.** A course designed for those wishing to begin the study of the language after entering the University.

In order that this course may count for credit toward a degree, Greek must be pursued for four years, the last one and a half of which may be devoted to New Testament and Patristic Greek, *i. e.*, theological students may substitute Greek 35b, or 45b, or the equivalent, for Greek 20b, and 45 or 35 (whichever has not yet been taken) for 30.

3 hours per week; 3 credits.

Prerequisite: Complete Junior Matriculation certificate without Greek.

PRESIDENT DILLON, PRINCIPAL WALLER.

10. Xenophon, *Hellenica*; Homer, *Iliad I*, 1-350; *III*, 121-244; *VI*, 66-118, 257-529; *Odyssey VI*; Herodotus, *Salamis, in Easy Attic Greek*; composition; sight translation.
3 hours per week; 3 credits.
Prerequisite: Junior Matriculation Greek or Greek 1.
PRESIDENT DILLON AND PROFESSOR AUDEN.

Texts: J. S. Phillpotts, *Selections adapted from Xenophon* (Oxford).
Leaf and Bayfield, *Homer's Iliad I-XII* (Macmillan).
W. W. Merry, *Homer's Odyssey I-XII* (Oxford).
Edwards, *Salamis* (Cambridge).
North and Hillard, *Greek Prose Composition* (Copp, Clark).

20. Plato, *Apology*; Thucydides *IV*; Herodotus *VII*; composition; sight translation.
3 hours per week; 3 credits.
Prerequisite: Greek 10, or Honour Matriculation Greek.
PRESIDENT DILLON AND PROFESSOR AUDEN.

Texts: G. Stock, *Plato, Apology and Crito* (Oxford).
C. E. Graves, *Thucydides IV* (MacMillan).
A. F. Butler, *Herodotus VII* (Macmillan).
North and Hillard, *Greek Prose Composition* (Copp, Clark).

30. Euripides, *Medea*; Sophocles, *Antigone*; Aeschylus, *Prometheus Vinctus*; Lucian, *Vera Historia*; lectures on the theatre and the development of the drama; composition; sight translation.
3 hours per week; 3 credits.
Prerequisite: Greek 20.
DEAN FOX AND PRESIDENT DILLON.

Texts: Moore-Allen, *The Medea of Euripides* (Ginn).
Campbell and Abbott, *Sophocles, Antigone* (Oxford).
Allen-Weeklein, *Aeschylus, Prometheus* (Ginn).
C. S. Jerram, *Luciani Vera Historia* (Oxford).
A. Sidgwick, *Greek Prose Composition* (Ginn).

35. **Biblical Greek:** *St. Luke* and *Hebrews*; grammar and composition; an option for Greek 30 or 40 for theological students in affiliated colleges.
3 hours per week; 3 credits.
Prerequisite: Greek 20.
PRINCIPAL WALLER AND PROFESSOR ANDERSON.

Texts: Scrivener, *Greek Testament* (Fourth Edition).
Volumes in *Cambridge Greek Testament Series.*
Nunn, *Syntax of New Testament Greek.*

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.

DEAN FOX.

Texts: 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).

45. **Biblical Greek:** *St. Mark* and *I Corinthians*; grammar and composition; text criticism. For either *St. Mark* or *I Corinthians*, Clement's *Epistle to the Corinthians* may be substituted with the permission of the instructor. An option for Greek 40 or 30 for theological students in affiliated colleges.

3 hours per week; 3 credits.

Prerequisite: Greek 20 and 35.

PRINCIPAL WALLER, PROFESSOR ANDERSON.

Text-books: See Greek 35.
Reference: Kenyon, *Handbook to the Textual Criticism of the New Testament* (Macmillan).

Honour Courses

100. Plato, *Apology* and *Crito*; Thucydides *IV*; Herodotus *VII*; Euripides, *Hippolytus*; composition; sight translation.

4 hours per week; 4 credits.

Prerequisite: Greek 10 (66 per cent.), or Honour Matriculation Greek.

DEAN FOX.

Texts: G. Stock, *Plato, Apology and Crito* (Oxford).
C. E. Graves, *Thucydides IV* (Macmillan).
A. F. Butler, *Herodotus VII* (Macmillan).
A. Sidgwick, *Greek Prose Composition* (Ginn).

200. Euripides, *Medea*; Aeschylus, *Prometheus Vinctus*; Lucian, *Vera Historia*; Thucydides *I*; Homer, *Iliad IX, XVIII, XXII*; sight translation; composition; history of Greek literature; history of Greece to 431 B.C. (one hour per week, second term).

4 hours per week; 4 credits.

Prerequisite: Greek 100.

PROFESSOR AUDEN.

Texts: Moore-Allen, *The Medea of Euripides* (Ginn).
Allen-Wecklein, *Aeschylus, Prometheus* (Ginn).
C. S. Jerram, *Luciani Vera Historia* (Oxford).
E. C. Marchant, *Thucydides I* (Macmillan).
J. H. Pratt, *Homer, Iliad IX* (Macmillan).
D. B. Monro, *Homer's Iliad XII-XXIV* (Oxford).
A. Sidgwick, *Greek Prose Composition* (Ginn).

300. Euripides, *Alcestis*; Sophocles, *Antigone*, *Oedipus Tyrannus*; Aristophanes, *Clouds*; Homer, *Odyssey I-XII*; Plato, *Republic I-V*; Thucydides *II*; sight translation; composition; philology; private life of the Greeks; Greek literature; history of Greece in detail from 431 to 323 B.C. (one hour per week, second term).

5 hours per week; 5 credits.

Prerequisite: Greek 200.

DEAN FOX AND PROFESSOR AUDEN.

Texts: Bayfield, *Euripides, Alcestis* (Macmillan).
Campbell and Abbott, *Sophocles, Antigone* (Oxford).
Campbell and Abbott, *Sophocles, Oedipus Tyrannus* (Oxford).
W. W. Merry, *Aristophanes, Clouds* (Oxford).
Merry and Riddell, *Homer's Odyssey I-XII* (Oxford).
T. H. Warren, *Plato, The Republic I-V* (Macmillan).
P. Giles, *Manual of Comparative Philology* (Macmillan); or
J. M. Edmonds, *Comparative Philology* (Cambridge).

301. Thucydides, *II*, *III*; Demosthenes, *De Corona*; development of the literature of Athens with special reference to poetry; special study of the period of the Athenian Empire. An option in the Department of English and History.

3 hours per week; 3 credits.

Prerequisite: Greek 200.

PROFESSOR NEVILLE.

Texts: E. C. Marchant, *Thucydides II, III* (Macmillan).
M. W. Humphreys, *Demosthenes, On The Crown* (American).

400. Aeschylus, *Agamemnon*; Sophocles, *Oedipus Coloneus*; Plato, *Republic VI-X*; *Phaedo*; Thucydides *III*, *IV*; Lysias; Aeschines; Demosthenes, *De Corona*; sight translation; composition; monuments and topography of Greece; Greek literature; history of Greece in detail from 323 to 31 B.C. (one hour per week, second term).

6 hours per week; 6 credits.

Prerequisite: Greek 300.

DEAN FOX AND PROFESSOR AUDEN.

Texts: A. Sidgwick, *Aeschylus, Agamemnon* (Oxford).
Campbell and Abbott, *Sophocles, Oedipus Coloneus* (Oxford).
J. Burnet, *Plato, Respublica* (Oxford).
B. Bosanquet, *A Companion to Plato's Republic* (Macmillan).
J. Burnet, *Plato's Phaedo* (Oxford).
E. C. Marchant, *Thucydides III* (Macmillan).
C. E. Graves, *Thucydides IV* (Macmillan).
E. S. Shuckburgh, *Lysiae Orationes XVI* (Macmillan).
M. V. Humphreys, *Demosthenes, On The Crown* (American).
Gwatkin and Shuckburgh, *Aeschines, In Ctesiphontem* (Macmillan).

DEPARTMENT OF COMMERCE

E. H. MORROW, B.A., M.B.A., Associate Professor
J. W. WESTERVELT (JR.), C.A., Lecturer in Accounting
F. H. Curran, B.A., LL.B., Lecturer in Commercial Economics
C. J. BELL, Lecturer in Commercial Economics

The courses hereunder described are subject to such alterations as time and experience may make advisable. Any alterations so made, however, will not increase the requirements demanded of students who enter under the provisions of this announcement.

Students who contemplate taking the Honour Course in Commercial Economics should apply to the Registrar for the special announcement covering the work in this department.

300. **Accounting Principles:** the principles underlying modern bookkeeping and accounting; books of original entry; financial statements, supporting schedules and ledger closing; single entry, double entry; business paper; synoptic and other forms of general and petty cash books; reserve and reserve funds; depreciation, amortization and sinking funds; corporation and cost records; fire loss branch accounting; shipping and consignment: authorized trustee and executor's accounts; statements and schedules of executives administering the affairs of a manufacturing or merchandising concern, of a trustee administering matters of trust.

3 hours per week; 3 credits.

PROFESSOR MORROW.

Texts: Cole, *Fundamentals of Accounting.*

301. **Commercial Distribution:** this course will deal with the 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; price policies; the relation of advertising to marketing problems. Problems will be assigned for intensive consideration and will be reported on in writing by the students.

During the course of the year each student will be required to submit a report embodying the methods and problems incident to the distribution of some commodity such as wheat, tobacco, rubber, etc. Particular emphasis will be attached to the Canadian phases of distribution.

2 hours per week; 2 credits.

PROFESSOR MORROW AND MR. BELL.

Texts: Duncan, *Marketing, Its Problems and Methods.*
Starch, *Advertising.*
Copeland, *Marketing Problems.*
Commercial and Financial Publications.

307. **Statistics:** the chief object of this course is to give the student an introductory knowledge of the terms, principles, forms and methods used in statistical presentation, so that he may later be able to apply this knowledge in advanced work in Commerce. The course will be divided into two sections:

I. Theory and Science of Statistics.

II. The application of statistical methods to business problems.

2 hours per week; 2 credits.

PROFESSOR MORROW.

Texts: King, *Elements of Statistical Method.*
Secrist, *Statistics in Business.*

400. **Advanced Accounting:** accounting principles employed to record scientifically the transactions of a given business when extended and developed to meet conditions brought about by competition and modern methods of production and merchandising; accounts and records necessary for executorship, including points of law involving the question of personal responsibility; factory cost accounting for the determination of accurate costs entailed for material, labour and expense for designated production; partnership accounts with the law governing partners in the establishing, conduct and winding up of their business; provincial and Federal enactments governing the conduct of incorporated companies and the accounts and records peculiar to joint stock companies; deferred payments or instalment accounts; adjustments rendered necessary after fire loss with the types of policies and the general contract applying to these accounts.

3 hours per week; 3 credits.

MR. J. W. WESTERVELT, JR.

401b. **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 for one term; 1½ credits.

MR. F. H. CURRAN.

Texts: Anson, *Contracts.*
Falconbridge, *Banking and Bills of Exchange.*
References: Falconbridge, *Sale of Goods.*
Russell, *Bills.*
Pollock, *Partnership.*
Willis, *Contracts.*
Dominion and Provincial Statutes.

402a. **Business Finance:** forms of business organization; methods of financing required in different types of organization; sources of funds for capitalization and for long term and short term financing; types of securities and legal restrictions surrounding them; relations with banks and other financial institutions; problems of financial management.

2 hours per week, first term; 1 credit.

MR. F. H. CURRAN.

403. **Marketing Problems:** the course in marketing problems is a continuation of Commerce 301. The course will be handled entirely by means of problems to be assigned once 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. It is expected that this class will be largely handled by business men who will assign problems within their own experience.

Lectures, one hour per week; 1½ credits.

404b. **Finance Problems:** the course in Finance Problems will be complementary to the course in Business Finance and will illustrate the practical application of the principles learned in the first term. The course will be handled entirely by the discussion of problems that have actually occurred in the experience of business concerns and written reports will be required from time to time. Business men will be frequently invited to lead the discussion on many of the problems submitted.

2 hours per week, second term; 1½ credits.

MR. F. H. CURRAN.

405. **Industrial Management:** 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. For this section of the course the various types of organization and the fundamental principles of management will be dealt with. The second part of the year will be devoted to a consideration of specific industrial practice and of management problems in the handling of materials, equipment and personnel. Frequent exercises, problems and reports will be assigned during the course of the session.

Several factory trips, for the purpose of seeing at first hand the methods employed in different types of industry, will be arranged, and the students will be required to submit reports detailing what they have seen on their trips. One report on the methods employed by a specific industry will be required during the course of the year.

2 hours per week; 3 credits.

PROFESSOR MORROW.

Texts: Kimball, *Principles of Industrial Management.*
Dismer, *Factory Organization and Administration.*
Assigned Readings in standard works and Industrial Magazines.

501. **Executive Problems:** the work taken in the various courses previous to this year will be correlated by means of written reports on problems of a general executive nature. Questions of Production, Sales and Financial Policy will have to be considered and co-ordinated in the effort to reach a solution of the problems involved.

It is hoped that the problems will in almost every instance be assigned by an executive in some business concern. The discussions will be of a seminar rather than of a class nature.

1 hour per week; 1 credit.

502. **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. Westervelt 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.

MR. J. W. WESTERVELT, JR.

Other Classes: in the last year of the course the work of the students will diverge into specialized fields, the courses in which have not yet been decided upon. The classes in each case will be of an advanced character and will involve a large amount of field work. Eight credits will be given for the commerce work to be done in a student's special field. A special Commerce Announcement will later be issued, and will cover this section of the course. Those interested should apply to the Registrar for information.

Places in the class room will be found for a limited number of men in business, who wish to avail themselves of the lectures. Anyone taking advantage of this opportunity will be expected to enroll as a special student and must secure the approval of the Registrar. Preference will be given to those having business experience.

DEPARTMENT OF ENGLISH

University College

W. F. TAMBLYN, PH.D.,	Professor
J. A. SPENCELEY, M.A.,	Assistant Professor
MRS. E. K. ALBRIGHT, B.A.,	Instructor
MISS JEAN I. WALKER,	Lecturer
MRS. JEAN NEVILLE, B.A.,	Lecturer

Assumption College

REV. CHAS. DONOVAN, B.A.,	Associate Professor
REV. CHAS. COUGHLIN, B.A.	Lecturer
REV. J. C. PLOMER,	Lecturer

Ursuline College

M. M. CARMEL, M.A.,	Professor

10. First Term:

A.—A critical study of the following poems:
Sir Patrick Spens.
Spenser, *Sonnet, One Day.*
Sidney, *Sonnet on Sleep.*
Marlowe, *The Passionate Shepherd.*
Jonson, *To the Memory of Shakespeare; Song, To Cynthia.*
Shakespeare, *Sonnet, When to the Sessions.*
Herbert, *The Pulley.*
Lovelace, *To Lucasta.*
Herrick, *Gather ye rosebuds, To Daffodils, Corinna's Going A-Maying.*
Milton, *Il Penseroso, L'Allegro, Epitaph on Shakespeare;* four sonnets.
Dryden, *Song for St. Cecilia's Day, Absalom and Achitophel.*
Collins, *To Evening.*
Gray, *Elegy.*

B.—A careful reading of the following:
Pope, *The Rape of the Lock.*
Thomson, *Autumn* from *The Seasons.*
Gray, *Prospect of Eton College, The Fatal Sisters.*
Bunyan, *The Pilgrim's Progress, Vol. I.*
Steele, *Essays.*
Scott, *Redgauntlet.*

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

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

1. An outline of the growth of the novel from Defoe to Scott.

2. An outline of the development of English literature from Spenser to Gray, excluding the Drama.

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)—50 per cent.
Part II. (Section B)—25 per cent.
Part III. (Sections C and D)—25 per cent.

Second Term:

A.—A critical study of the following poems:

Blake, *To the Muses, To the Evening Star, Introduction to Songs of Innocence, The Lamb.*
Burns, *The Cotter's Saturday Night, To a Mountain Daisy, The Banks of Doon, O wert thou in the cauld blast.*
Wordsworth, *Tintern Abbey, The Solitary Reaper, Sonnets.*
Coleridge, *The Ancient Mariner, Kubla Khan.*
Scott, *O Listen Lords and Ladies Gay, Edmund's Song, County Guy.*
Byron, *Childe Harold, Canto IV.*
Shelley, *The Cloud, The Skylark.*
Keats, *The Eve of St. Agnes, To Autumn.*
Tennyson, *Locksley Hall, In Memoriam, Crossing the Bar.*
Browning, *My Last Duchess, The Guardian Angel, Song* from *Pippa Passes.*
Arnold, *Self-Dependence, Shakespeare.*

B.—A careful reading of the following:

Chatterton, *The Minstrel's Roundelay.*
Cowper, *The Winter's Walk at Noon,* from *The Task.*
Burns, *Tam O'Shanter.*
Thackeray, *Henry Esmond.*
Essays by Cowper, Carlyle, Stevenson.

C.—A knowledge of English literary history from Blake to Arnold.

N.B.—On the examination paper marks will be assigned according to the following percentages:
Part I. (Section A)—50 per cent.
Part II. (Section B)—25 per cent.
Part III. (Section C)—25 per cent.

2 hours a week; 2 credits.
PROFESSORS DONOVAN AND SPENCELEY AND MRS. ALBRIGHT.

Texts: Pancoast, *Standard English Poems* (Holt).
Selected English Essays (Oxford).
A. T. Strong, *Short History of English Literature* (Oxford); or
W. J. Long, *English Literature* (Ginn).
References: J. W. Hales, *Longer English Poems* (Macmillan).
Palgrave, *Golden Treasury* (Ed. Wheeler, Oxford).
W. J. Rolfe, *Milton's Minor Poems.*
Byron, *Poems* (Ed. Coleridge, Scribner's).
Tennyson, *Poems* (With Author's Notes, Macmillan).
Browning, *Select Poems* (Ed. W. T. Young, Cambridge University Press).

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.

MISS WALKER.

Text: A. E. Phillips, *Effective Speaking* (Newton Company).

12. **Composition and Rhetoric:** exercises in class, and four essays on subjects prescribed; lectures and reading. Prescribed for all those in the first year.

1 hour per week; 1 credit.

PROFESSORS SPENCELEY, DONOVAN, CARMEL AND MRS. ALBRIGHT.

20. 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 essays:
Bacon: *Of Truth, Of Death, Of Revenge, Of Adversity, Of Travel, Of Empire, Of Friendship, Of Studies, Of Gardens.*

Addison: *Sir Roger de Coverley at Home, Sir Roger and Will Wimble, Sir Roger at Church, Sir Roger at the Assizes, Sir Roger in London, Sir Roger at the Theatre, Death of Sir Roger, The Adventures of a Shilling, Meditations in Westminster Abbey, The Tory Foxhunter, On Asking Advice on Affairs of Love.*

C.—A knowledge of the development of the English drama from the beginning to Shakespeare.

D.—An acquaintance with the facts of Shakespeare's life.

Note:—For examination purposes the above four sections, A, B, C, D, 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 and D)—25 per cent.

Second Term:
A.—A critical study of:
Shakespeare, *King Lear* and *Twelfth Night.*

B.—A careful reading of the following:
Swift, *On Style.*
Johnson, *Dick Minim the Critic* (both parts).
Boswell, *Life of Johnson* (Selections).

N. B.—For examination purposes marks will be assigned according to the following percentages:
Part I. (Section A)—75 per cent.
Part II. (Section B)—25 per cent.

2 hours per week; 2 credits.
PROFESSORS TAMBLYN, SPENCELEY, CARMEL AND DONOVAN.

Texts: New Hudson Shakespeare (Ginn & Co.).
Raleigh, *Shakespeare.*
Selected English Essays, Edited by W. Peacock (Oxford Press).
Selections from Boswell's *Life of Johnson*, Ed. E. A. J. Marsh (Bell).
Long or Strong, *History of English Literature.*

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.
MISS WALKER.

Text: Winans, *Public Speaking.*

22. **Composition and Rhetoric:** class exercises, four essays, lectures, and study of L. W. Smith, *The Mechanism of English Style.*

1 hour per week; 1 credit.
PROFESSORS TAMBLYN, CARMEL, PLOMER AND MRS. NEVILLE.

30. An outline of nineteenth century literature, with a special study of the following:

First Term:

Blake, *Piping Down the Valleys Wild, On Another's Sorrow, The Clod and the Pebble, The Tiger, A Poison Tree, Auguries of Innocence, Two Kinds of Riches, The Two Songs, Love's Secret, My silks and fine array, How sweet I roamed from field to field, The Little Black Boy, The Chimney Sweeper, Holy Thursday, Proverbs.*

Wordsworth, *Michael, "My heart leaps up," Lines Composed above Tintern Abbey, Resolution and Independence, To My Sister, Expostulation and Reply, The Tables Turned, "She dwelt," etc., "Three years she grew," "A Slumber," At the Grave of Burns, The Solitary Reaper, Stepping Westward, Intimations of Immortality, To the Cuckoo, "She was a phantom of delight," "I wandered lonely as a cloud," Ode to Duty, To a Skylark (Ethereal Minstrel), Elegiac Stanzas, French Revolution, September 1819, Extempore Effusion, Yarrow Unvisited, "It is a beauteous evening," Toussaint, Written in London, September 1802, London 1802, "It is not to be thought of," "The world is too much with us," "Nuns fret not," Personal Talk, "The Unremitting voice of nightly streams."*

Coleridge, *Christabel, Frost at Midnight, Love, Dejection, Youth and Age.*

Scott, *Marmion* (except the introductions), *The Maid of Neidpath, Coronach (He is gone on the mountain), Jock of Hazeldean, Pibroch of Donald Dhu, "The sun upon the Weirdlaw Hill," Proud Maisie.*

Byron, *Sennacherib, "She walks in beauty," 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.*

Essays by Lamb and Hazlitt.

Second Term:

Shelley, *Adonais, Lines Written Among the Euganean Hills, Ode to the West Wind, The Sensitive Plant, The Cloud, To a Skylark, To Night, "One word is too often profaned," "When the lamp is shattered," Ozymandias.*

Keats, *Sleep and Poetry, The Human Seasons, Fancy, "Bards of Passion and of Mirth," Ode on a Grecian Urn, To a Nightingale, In a Drear-Nighted December, 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, The Bishop Orders His Tomb, Time's Revenges, Two in the Campagna, Saul, Memorabilia, Popularity, A Grammarian's Funeral, Rabbi Ben Ezra, Abt Vogler, Confessions, Prospice, Epilogue to Asolando.*

Arnold, *The Strayed Reveller, The Scholar Gypsy, Morality, Thyrsis, Dover Beach, To a Friend, Second Best, A Summer Night, Requiescat, The Better Part, Growing Old, The French Play in London.*

Newman, *Poetry with Reference to Aristotle's Poetics.*

Bagehot, *Essays on Shelley, Shakespeare; Wordsworth, Tennyson and Browning.*

Dickens, *Barnaby Rudge.*

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.

PROFESSORS CARMEL AND DONOVAN AND MRS. ALBRIGHT.

Texts: *British Poets of the Nineteenth Century* (Sanborn).
Selected English Essays (Oxford).
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.*
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 in October. Not given in 1923-24. To be given in 1924-25.

Defoe, *A Journal of the Plague Year.*
Richardson, *Pamela.*
Fielding, *Joseph Andrews.*
Smollett, *Humphrey Clinker.*
Goldsmith, *The Vicar of Wakefield.*
Sterne, *Tristram Shandy.*
Walpole, *The Castle of Otranto.*
Burney, *Evelina.*
Edgeworth, *Castle Rackrent.*
Scott, *Quentin Durward.*
Shelley, *Frankenstein.*
Lytton, *The Last Days of Pompeii.*
Dickens, *Oliver Twist.*
Thackeray, *Vanity Fair.*
Eliot, *Silas Marner.*
Hardy, *Tess of the D'Urbervilles.*
Meredith, *The Ordeal of Richard Feverel.*
Stevenson, *The Master of Ballantrae.*
Conrad, *The Nigger of the Narcissus.*

2 hours per week; 2 credits.

PROFESSOR SPENCELEY.

Reference Works: Cross, *The Development of the English Novel.*
Raleigh, *The English Novel.*
Sherman, *On Contemporary Literature* (Holt).

40. **English Poetical Literature** since Tennyson: a critical reading and discussion of the following:

First Term:

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, 341, 399-401, 405, 424, 426, 433-4, 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.*

Poems of To-day: An Anthology (McClelland & Stewart), The selections from Meredith, Stevenson, 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).

References: 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).

Second Term:

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

Poems of To-day (First and Second Series): the selections from A. E., Brooke, Flecker, De la Mare, Graves, R. Hodgson, Kipling, Masefield, Moore, Newbolt, Nichols, Sassoon, Squire, Thompson, Trench, Turner and Yeats.

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

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

W. D. Lighthall, *Canadian Poems and Lays* (Scott Pub. Co.):—

Roberts, *Canada, Burnt Lands, Birch and Paddle, Frogs.*
Scott, *At the Cedars.*
Crawford, *Song of the Axe, The Canoe.*
Campbell, *A Canadian Folk-Song, Indian Summer, A Mid-Winter Night's Dream.*
Carman, *The Wraith of the Red Swan, Low Tide on Grand Pre, In Lyric Season.*
Sangster, *Brock.*
Mair, *A Ballad for Brave Women.*
Lampman, *Heat, Clouds, Midsummer Night, The Frogs.*
Edgar, *The Canadian Song Sparrow.*

Hugh Walker, *Literature of the Victorian Era* (Cambridge University Press).

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).
J. Cappon, *Roberts* (Ryerson Press).
R. Scott-James, *Personality in Literature* (Secker).
B. Matthews, *Study of Versification* (Houghton).
J. Middleton Murry, *Aspects of Literature* (Collins).
A. Clutton-Brock, *Essays on Books, More Essays on Books* (Methuen).

Prescribed with 41, 42 for all students in General Course. 1 hour per week; 1 credit.

PROFESSORS TAMBLYN, DONOVAN AND CARMEL.

41. **English Prose Literature** since Ruskin: a study of the following:

First Term:

T. Hardy, *Far from the Madding Crowd.*
R. L. Stevenson, *Talk and Talkers* (Ed. 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, *Candida.*
Walker and Williams (See under 40).
H. Child, *Thomas Hardy* (Holt).

References: L. Abercrombie, *Thomas Hardy* (Kennerley).
J. Freeman, *The Moderns* (Robert Scott).

Second Term:

A. C. Bradley, *Poetry for Poetry's Sake* in *Oxford Lectures* (Macmillan).
H. G. Wells, *The Undying Fire* (Macmillan).
J. D. Beresford, *Wells* (Holt).

References: See under 40.

1 hour per week; 1 credit.

PROFESSORS TAMBLYN, DONOVAN AND CARMEL.

42. 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, 28-33; Paradiso, Cantos 1, 33* (Dent).

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.

PROFESSORS TAMBLYN, DONOVAN AND CARMEL.

100. The work prescribed for the General Course in English 20 and 12.

3 hours per week; 3 credits.

And in addition:

Jonson, *To the Memory of Shakespeare.*
Milton, *L'Allegro, Il Penseroso, Epitaph on Shakespeare, Lycidas.*
Dryden, *Absalom and Achitophel I.*
Pope, *Rape of the Lock.*
Gray, *Eton College, Elegy, Progress of Poesy.*
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, as in English 10, with additions.
Burns, as in English 10, with additions.
Coleridge, *The Ancient Mariner, Kubla Khan.*
Byron, *Vision of Judgement.*
Keats, as in English 10.
Tennyson, *Locksley Hall, Oenone.*
Browning, *My Last Duchess, Fra Lippo, Andrea, Caliban.*
The selections from Steele to Stevenson in *Selected English Essays.*
Johnson, *Preface to Shakespeare, Life of Savage.*

Prescribed for first year students in the Honour English and History course.

2 hours per week; 2 credits.

MRS. ALBRIGHT.

Texts: *The English Parnassus* (Oxford).
Selected English Essays (Oxford).

200. A study of the following texts:
Spenser, *Faerie Queene I.*
Shelley, *Song to the Men of England, The Mask of Anarchy, Prometheus Unbound, Ode to Liberty, Prologue to Hellas, Hellas.*
Browning, *Bishop Blougram's Apology.*
Arnold, *Empedocles, The Buried Life.*
Austen, *Pride and Prejudice.*
Scott, *Guy Mannering.*
Bronte, *Jane Eyre.*
Prescribed with 201 and 202 for second year students in the Honour English and History course.
2 hours a week; 2 credits.

PROFESSOR TAMBLYN.

Texts: *The English Parnassus* (Oxford).
Faerie Queene I (Ed. Kitchen, Oxford).

201. Anglo-Saxon and the History of the English Language.

First Term:—
Anglo-Saxon Grammar; translation of the following passages from Bright's Anglo-Saxon Reader: Selections I, III, V, VI, VIII, XII, XVI, XX, XXI, XXIII.

Second Term:—
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.
2 hours per week; 2 credits.

PROFESSOR SPENCELEY.

Reference-books: See the various histories of the English Language by O. F. Emerson J. P. Smith, O. Jespersen, Lounsbury, Wyld, Krapp and Sweet.

202. **Composition:** see English 22.
1 hour a week; 1 credit.

300. The subjects of courses 30 and 42 in the General Course; an extra hour in Chaucer will be given to the Honour students throughout the year. Prescribed with 301 for third year students in the Honour English courses.
5 hours per week; 5 credits.
Prerequisites: English 200, 201, 202.

301. **Anglo-Saxon Poetry,** including Beowulf. In this course Anglo-Saxon Poetry from the earliest times to the Norman Conquest will be reviewed and the following poems from Cook and Tinker's *Select Translations from Old English Poetry* will be read: *Widsith, Deor's Lament, The Battle of Maldon, The Seafarer, The Wanderer, Gnomic Verses, Riddles, Charms, Genesis A, The Christ, The Dream of the Rood, The Andreas, Judith.*

Beowulf will be read with due attention to metre, literary history and antiquities and the following sections of the original will be translated in the class: lines 710-836; 1321-1491; 2694-2820; 3137-3180.

1 hour per week; 1 credit.

PROFESSOR SPENCELEY.

Text-books: *Beowulf* (Wyatt's Edition).
Cook and Tinker, *Translations from Old English Poetry.*
References: Brooke, *English Literature from the Beginning to the Norman Conquest.*
Long, *English Literature, Ch. II.*

400. The subjects of 40 and 41 in the General Course. Prescribed with 401, 402, 403 for fourth year students in the Honour English courses.

2 hours per week; 2 credits.

Prerequisites: English 300, 301.

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:

Noah's Flood; Sacrifice of Isaac; Secunda Pastorum.
Heywood, *The Four PP.*
Udall, *Ralph Royster Doyster.*
Sackville and Norton, *Gorboduc.*
Lyly, *Endymion.*
Greene, *Friar Bacon and Friar Bungay.*
Kyd, *The Spanish Tragedy.*
Marlowe, *Tamburlaine, Part I; Edward II.*
Dekker, *The Shoemakers' 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, King Lear, Coriolanus.*

2 hours per week; 2 credits.

PROFESSOR SPENCELEY.

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,* selections from North.

2 hours per week; 2 credits.

PROFESSOR TAMBLYN.

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.*
Seeley, *The Enthusiasm of Humanity.*
Lecky, *The Stoics.*
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, *Preface to the Lyrical Ballads.*
S. T. Coleridge, *Biographia Literaria 17, 18.*
M. Arnold, *Literature and Science, The Function of Criticism, The Study of Poetry.*
W. Pater, *Charles Lamb.*
L. Stephen, *Sir Thomas Browne.*
J. M. Robertson, *Ruskin.*
R. L. Stevenson, *Gossip on Romance.*
J. A. M. Whistler, *Ten O'clock.*
G. Meredith, *Essay on Comedy.*
G. L. Dickinson, *Greek Tragedy.*

I hour per week; 1 credit.

MRS. ALBRIGHT.

Texts: Roe and Elliott, *English Prose* (Longmans).
E. D. Jones, *English Critical Essays (XIX Cent.)* (Oxford).
W. S. Johnson, *Selections from Arnold's Prose Works* (Houghton Mifflin).

Courses Leading to M.A.

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

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:

Kant, *Critique of Aesthetic Judgment.*
Hegel, *Aesthetics.*
Bosanquet, *History of Aesthetic* (1904).
Croce, *Aesthetics.*
Bergson, *Selections, and Studies of.*
Saintsbury, *History of Criticism.*
Brunetiere, *L'Evolution de la Poêsie en France au* 19e *Siècle* (Paris, 1895).
W. H. Hudson, *Studies in Interpretation.*
W. H. Hudson, *An Introduction to The Study of Literature* (1913).
J. M. Robertson, *New Essays Toward a Critical Method.*
A. C. Bradley, *Oxford Lectures on Poetry.*
Raleigh, *Style.*
Raleigh, *Milton.*
J Mackail, *Lectures on Poetry.*
A. Symons, *The Symbolist Movement in Literature.*
A. Symons, *Studies in Prose and Verse.*
G. Santayana, *Interpretations of Poetry and Religion.*
G. Santayana, *Three Philosophical Poets.*
G. Santayana, *Winds of Doctrine.*
I. Babbitt, *The New Laocoon; Rousseau and Romanticism.*
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.*

Also books and articles by Bridges, Elton, Newbolt, Bailey, More, Gayley, Spingarn, Lowes, Lynd, Abercrombie, Clutton-Brock, H. Child and J. Middleton Murry.

PROFESSOR TAMBLYN.

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.

PROFESSOR SPENCELEY.

DEPARTMENT OF GEOLOGY

PROFESSOR RUSSELL.

20. **Physiography and Meteorology:** a course of lectures with field trips, dealing with the earth's surface, atmosphere, climate and its relation to the other heavenly bodies.

2 lectures and 2 laboratory hours per week; 3 credits.

Text: Salisbury, *Physiography* (Holt).
Reference: Norton, *Elements of Geology* (Ginn).
Grabau, *Text Book of Geology, Part I* (Heath).
Milham, *Meteorology* (Macmillan).

30a. **Dynamic and Structural Geology:** a course dealing with the structure and formation of the earth's crust.

2 lectures and 2 laboratory hours per week; 1½ credits.
Prerequisites: Geology 20.

Text: Grabau, *Text Book of Geology, Part I* (Heath).
References: Pirsson and Schuchert, *TextBook of Geology, Part I.*
Chamberlain and Salisbury, *Geology, Vol. I.*

30b. **Historical Geology:** a course of lectures on the earth's history, with laboratory work on fossils and field trips.

2 lectures and 2 laboratory hours per week; 1½ credits.
Prerequisites: Geology 20; Biology 10a, 10b.

Text: Grabau, *Text Book of Geology, Part II* (Heath).
References: Pirsson and Schuchert, *Text Book of Geology, Part II.*
Chamberlain and Salisbury, *Geology, Vols. II and III.*

40. **Mineralogy:** lectures on descriptive mineralogy with laboratory work on blow pipe analysis and determination of minerals.

1 lecture and 2 laboratory hours per week; 2 credits.

Texts: Ford, *Dana's Manual of Mineralogy* (Wiley).
Lewis, *Determinative Mineralogy* (Wiley).
Reference: Dana, *Text Book of Mineralogy* (New Edition).

Honour Courses

100. **Physiography and Meteorology:** a course of lectures dealing with the earth's physiography and climate.

2 lectures and 2 laboratory hours or field trips per week; 3 credits.

Text: Salisbury, *Physiography* (Holt).
References: Norton, *Elements of Geology* (Ginn).
Milham, *Meteorology* (Macmillan).

200a. **Dynamic and Structural Geology:** a course dealing with the formation and structure of the earth's crust; laboratory work on rock and rock minerals; field trips.

2 lectures and 2 hours laboratory work or field trips per week; 1½ credits.

Prerequisites: Geology 100.

Text: Grabau, *Text Book of Geology, Part I* (Heath).
References: Pirsson and Schuchert, *Text Book of Geology Part I* (Wiley)
Chamberlin and Salisbury, *Geology, Vol. I.*

200b. **Historical Geology:** a course dealing with the earth's history, with special reference to North America; laboratory work on fossils; field trips.

2 lectures and 2 hours laboratory work or field trips; 1½ credits.

Prerequisites: Geology 200a and Biology 100a and 100b.

Text: Grabau, *Text Book of Geology, Part II* (Heath).
References: Pirsson and Schuchert, *Text Book of Geology, Part II* (Wiley).
Chamberlin and Salisbury, *Geology, Vols. II and III.*

300. **Mineralogy:** lectures in descriptive mineralogy, with blow pipe analysis, and the determination of the common minerals.

2 lectures and 2 laboratory hours per week; 3 credits.

Texts: Ford, *Dana's Manual of Mineralogy* (Wiley).
Lewis, *Determinative Mineralogy* (Wiley).
Reference: Dana, *Text Book of Mineralogy* (Wiley).

301. **Crystallography:** lectures and laboratory work in crystallography and optical mineralogy. Open to students who have taken or are taking Geology 300.

1 lecture, 2 hours laboratory; 2 credits.

Text: Iddings, *Rock Minerals* (Wiley).

302. **Regional Geology of Canada:** a course of lectures and reading on the physiography, historical geology and economic geology of Canada.

2 lectures per week with assigned work and essays; 3 credits.

Prerequisites: Geology 200a, 200b.

303. **History of Geology:** a course of lectures dealing with the development of the geological sciences.

2 lectures per week; 2 credits.

400. **Economic Geology:** a course of lectures and reading, with laboratory work, on economic geology with special reference to Canadian deposits.

3 lectures and 2 laboratory hours per week with assigned reading and essays; 5 credits.

Text: Lindgren, *Mineral Deposits* (McGraw-Hill).

401. 402. 403. **Geological Research:** work upon some geologic problems designed to give practice in methods of scientific research. Nature of work, time required and credits to be determined for each student individually.

DEPARTMENT OF GERMAN LANGUAGE AND LITERATURE

University College

N. C. JAMES, PH.D., Professor

Assumption College

REV. E. J. WELTY, B.A., Professor

1. **Preparatory German:** the work of the Middle School or its equivalent is covered.

Texts: High School German Grammar.
Guerber, *Märchen und Erzählungen* (Heath).

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

3 hours per week; 3 credits.

Text: Stern, *Geschichten von deutschen Städten, Vol. I.*

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

3 hours per week; 3 credits.

Prerequisite: German 10.

Texts: Stern, *Geschichten von deutschen Städten, Vol. II.*
Hatfield, *German Lyrics and Ballads*, Nos. 1, 6 to 9, 14, 20, 25, 27, 28, 31, 37, 42, 43, 46, 47, 49, 50, 53, 61, 62, 67, 68, 71, 72, 83, 84, 88, 89, 103, 107, 108, 115.

30. Grammar, translation into German, outline of German literature to 1740.

3 hours per week; 3 credits.

Prerequisite: German 20.

Texts: Heine, *Prosa* (Colbeck's Edition, Macmillan), Pages 1-100.
Lessing, *Minna von Barnhelm.*

40. Grammar, translation into German, outlines of the history of German literature, 1740 to the present.

3 hours per week; 3 credits.

Prerequisite: German 30.

Texts: Freitag, *Journalisten.*
Schiller, *Jungfrau von Orleans.*
Goethe, *Iphigenie.*

Honour Courses

100. Grammar, pronunciation, translation into German, translation from modern German, outlines of the history of German literature to 1500.

3 hours per week: 3 credits.

Prerequisite: Honour Matriculation German.

Texts: Stern, *Geschichten von deutschen Städten (Vol. II).*
Freitag, *Die Journalisten.*

200. Grammar, conversation, translation from English to German; outlines of the history of German literature, in 1500-1740.

3 hours per week; 3 credits.

Prerequisite: German 100.

Texts: Schiller, *Wilhelm Tell.*
Hatfield, *German Lyrics and Ballads* (as in 20).
Scheffel, *Ekkehard.*

300. Grammar, translation into German, a general acquaintance with German literature from Gottsched to the death of Schiller.

3 hours per week: 3 credits.

Prerequisite: German 200.

Texts: Lessing, *Minna von Barnhelm.*
Goethe, *Hermann und Dorothea.*
Goethe, *Iphigenie.*
Heine, *Prosa,* Pages 1-140 (Colbeck).

400. Grammar, translation into German, a general acquaintance with German literature in the 19th century.

3 hours per week; 3 credits.

Prerequisite: German 300.

Texts: Schiller, *Jungfrau von Orleans.*
Klenze, *Deutsche Gedichte,* Page 131 to end.
Goethe, *Faust, Parts I and II.*
Grillparzer, *Sappho.*
Ludwig, *Die Makkabäer.*
Sudermann, *Der Katzensteg.*

401. Elements of Middle High German Grammar; History of Middle High German Literature.

1 hour per week; 1 credit.

Text: Nibelungenlied, Avv, 1, 5, 16, 29, 39.

DEPARTMENT OF HEBREW

PROFESSOR WALLER.

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 Professor reserves 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 *Exodus 1-4, I Samuel 17;* grammatical analysis, parsing and vocabulary.

3 hours per week; 3 credits.

20. Grammar; exercises in translation from Hebrew to English and from English into Hebrew; pointing of simple passages; translation of *Genesis 1-4, 37, 40-45; 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, 2, 8, 16, 19, 23, 24, 29, 37, 45, 50, 51, 80, 84, 90, 110, 121-127; Ecclesiastes 12; Proverbs 1-4, 8; Job 28.*

3 hours per week; 3 credits.

Prerequisite: Hebrew 30.

Minor Honour Courses

100. Grammar; exercises in translation of Hebrew into English and English into Hebrew. Davidson pp. 1-126; 208-221. Translation of *Exodus 1-4, I Samuel 17, 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 1-4; 37, 40-45;* introduction to prophetic writings; *Amos; Isaiah 1-6, 40, 50-55; Jeremiah 7; Ezekiel 14.*

4 hours per week; 4 credits.

Prerequisite: Hebrew 100.

300. Grammar, syntax, pointing, composition, sight translation; introduction to poetical writings; principles of Hebrew poetry; *Numbers 23, 24; Psalms 1, 2, 8, 16, 19, 23, 24, 29, 37, 45, 50, 51, 80, 84, 90, 110, 121-130; 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 read in Hebrew 300.

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., Associate Professor
F. LANDON, M.A., Lecturer
K. P. R. NEVILLE, PH.D., Professor of Classics

Assumption College

REV. J. J. SHERIDAN, M.A., Lecturer

Ursuline College

M. M. ST. MICHAEL, M.A., Professor

20. **Ancient Civilizations:** Early Egyptian, Babylonian, Hebrew History; Greece; Rome to 200 A.D. Lectures, readings and essays.
3 hours per week; 3 credits.
PROFESSORS NEVILLE AND ST. MICHAEL, MR. SHERIDAN

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

30a. **Mediaeval History (476-1122):** lectures, prescribed reading and essays.
3 hours per week, first term; 1½ credits.
PROFESSOR DORLAND.

Text-books: Thorndike, *History of Mediaeval Europe* (Houghton Mifflin).
Robinson, *Readings in European History, Vol. I.*

30b. **Mediaeval History (1122-1492):** lectures, prescribed reading and essays.
3 hours per week, second term; 1½ credits.
PROFESSOR DORLAND.

40a. **Modern History (1713-1815):** lectures prescribed reading and essays.
3 hours per week, first term; 1½ credits.
Prerequisite: History 30a, 30b or an equivalent.
PROFESSOR DORLAND.

Text-books: Seeley, *Expansion of England.*
Rose, *Revolutionary and Napoleonic Era.*
Robinson and Beard, *Readings in Modern European History, Vol. I.*

40b. **Modern History (1815-1915):** lectures, prescribed readings and essays.
3 hours per week, second term; 1½ credits.
Prerequisite: History 30a, 30b or an equivalent.
PROFESSOR DORLAND.

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

42. **The Constitutional History of England:** lectures, prescribed reading and essays. The following topics will be studied: Anglo-Saxon and Norman Institutions; the development of the Judicature; Magna Carta; the growth of Parliament; the Lancastrian Experiment in Constitutional Government; the development of Constitutional Monarchy.

3 hours per week, first term; second term for extramural students; 1½ credits.

Prerequisite: History 30a, 30b.

PROFESSOR DORLAND.

Text-books: Masterman, *History of the British Constitution.*
Adams and Stephens, *Select Documents of English Constitutional History.*
Maitland, *Constitutional History of England.*
References Stubbs, *Constitutional History of England.*
Taswell-Langmead, *English Constitutional History.*
Adams, *Constitutional History of England* (Holt).

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 19th Century; the development of self-government in Canada, Australia and South Africa; the Constitution of the Australian Commonwealth; the partition of Africa; the Boer War; the Union of South Africa.

3 hours per week, second term; 1½ credits.

Prerequisite: History 30a, 30b.

PROFESSOR DORLAND.

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:** this course will include the colonial period, the revolution, making of the constitution, the westward development, slavery struggle and Civil War, reconstruction and later political history. The period down to the Civil War will be covered in the first term, the later period in the second term.

2 hours per week; 2 credits.

Prerequisite: History 30a and 30b.

MR. LANDON.

Text-books: Muzzey, *United States of America, Vol. I* (Through the Civil War) (Ginn).
Lingley, *Since the Civil War* (Century).
Paxson, *Recent History of the United States* (Houghton).

Honour Courses

105. **History of England:** from earliest times down to 1713. Lectures, prescribed reading and essays.

2 hours per week; 2 credits.

Prescribed for students taking the Honour Course in English and History, or in Political Science.

MR. LANDON.

Text-books: Cross, *History of England and Greater Britain.*
Cheyney, *Readings in English History.*
References: Hunt and Poole, *Political History of England, Vol. I-VIII.*
Oman, *History of England, Vol. I-V.*

200a. **Mediaeval History (476-1122):** lectures, prescribed reading and essays.

3 hours per week, first term; 1½ credits.

Prerequisite: History 100.

PROFESSOR DORLAND.

Text-books: Thorndike, *History of Mediaeval Europe* (Houghton Mifflin Co.)
Robinson, *Readings in European History, Vol. I.*
References: Sergeant, *The Franks.*
Gibbon, *Decline and Fall of Roman Empire.*
Milman, *History of Latin Christianity.*
Oman, *The Dark Ages.*
Cambridge, *Mediaeval History.*
Bryce, *Holy Roman Empire.*
Munro and Sellery, *Mediaeval Civilization.*
Thatcher and McNeal, *Source Book for Mediaeval History.*

200b. **Mediaeval History (1122-1492):** lectures, prescribed reading and essays.

3 hours per week, second term; 1½ credits.

Prerequisite: History 100.

PROFESSOR DORLAND.

Text-books: Thorndike, *History of Mediaeval Europe.*
Robinson, *Readings in European History, Vol. II.*
References: Thatcher and McNeal, *Source Book of Mediaeval History.*
Milman, *History of Latin Christianity.*
Fisher, *Mediaeval Empire.*
Munro and Sellery, *Mediaeval Civilization.*
Tout, *Empire and the Papacy.*
Vickers, *England in the Later Middle Ages.*
Lodge, *The Close of the Middle Ages.*

300a. **Modern History (1713-1815):** lectures, prescribed reading and essays.

3 hours per week, first term; 1½ credits.

Prerequisite: History 200a, 200b.

PROFESSOR DORLAND.

Text-books: Seeley, *Expansion of England.*
Rose, *Revolutionary and Napoleonic Era.*
Robinson and Beard, *Readings in Modern European History, Vol. I.*
References: Lecky, *History of England in the Eighteenth Century.*
Kitchin, *History of France.*
Young, *Travels in France.*
Lowel, *Eve of The Revolution.*
Fisher, *Napoleon.*
Henderson, *Short History of Germany.*
Madelin, *The French Revolution.*
Perkins, *France Under the Regency.*
Perkins, *France Under Louis XV.*

300b. **Modern History (1815-1915):** lectures, prescribed reading and essays.

3 hours per week, second term; 1½ credits.

Prerequisite: History 300a.

PROFESSOR DORLAND.

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

301. **History of Canada:** lectures and prescribed reading. This course includes the early explorations, the form of government and the institutions of the French regime, and the British period to the present time.

2 hours per week; 2 credits.

MR. LANDON.

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.

PROFESSOR DORLAND.

Text-books: Traill, *Shaftesbury.*
Morley, *Walpole.*
Macaulay, *Essay on Pitt.*
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.*
Letters of Queen Victoria.
Monypenny and Buckle, *Life and Letters of Benjamin Disraeli.*
Basil Williams, *Life of William Pitt.*
Trevelyan, *Life of John Bright.*

402. **The Constitutional History of England:** for details, see History 42. Prescribed for students of the fourth year in the Honour Course in English and History and in Political Science.

3 hours per week, first term; 1½ credits.

PROFESSOR DORLAND.

403. **The Development of Self-Government in the British Empire:** for details, see History 43. Prescribed for students of the fourth year in the Honour Course in English and History and in Political Science.

3 hours per week, second term; 1½ credits.

PROFESSOR DORLAND.

404. **History of the United States:** see History 44. Prescribed for students of the fourth year in the Honour Course in English and History.

2 hours per week; 2 credits.

MR. LANDON.

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 American 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 preceeding the Fall Term in which the work will be taken.

DEPARTMENT OF LAW

MR. PERRIN

500. **Domestic Relations:** Eversley, substituting the Canadian Statues 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: 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 to page 235, ch. 4 to 13, inclusive; Part IV: ch. 1 and 2 from page 545, ch. 3 to page 729; Part V: ch. 1 to 6, inclusive; Part VI: ch. 1 to 6, inclusive.

Text: Brice, *Ultra Vires*, Second Edition.

502. **Medical Jurisprudence:** the following portions will be read from the text named below: ch. 1 to 5, inclusive; ch. 23 to 39, inclusive; ch. 44 to 54, inclusive; ch. 59 to 67, inclusive.

Text-book: Reece, *Medical Jurisprudence.*

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.**

DEPARTMENT OF LIBRARY SCIENCE

MISS ROSS

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.

1 hour a week, first term; ½ credit.

DEPARTMENT OF MATHEMATICS AND ASTRONOMY

University College

H. R. KINGSTON, M.A., PH.D., Professor
W. J. PATTERSON, M.A., Professor
ARTHUR WOODS, M.A., Instructor

Assumption College

REV. W. G. ROGERS, B.A., Professor
A. B. MCINTYRE, B.A., Lecturer

Ursuline College

M. M. ST. MICHAEL, M.A., Instructor

10a. **Algebra:** variables, linear and quadratic functions of two variables, graphs, maximum and minimum values of quadratic functions of a single variable; linear and quadratic equations of two and three unknowns; elementary theory of quadratic equations; solutions of higher equations by means of quadratic equations; ratio and proportion; variation; inequalities; arithmetical, geometrical and harmonical progressions; interest forms and annuities.

3 hours per week, first term; 1½ credits.

Prerequisites: Pass Matriculation in Mathematics.

Text: DeLury, *An Intermediate Algebra* (Copp, Clark).

12b. **Analytic Geometry:** the analytical geometry of the point, straight line, circle, parabola, ellipse and hyperbola to page 95 of text; also articles 67, 68, 73, 74, 75.

3 hours per week, second term; 1½ credits.

Prerequisites: Middle School Mathematics.

Text: Crawley and Evans, *Analytical Geometry* (E. S. Crawley, University of Pennsylvania).

14. **General Mathematics** (for Medical Students):

First Term:—Trigonometric ratios of 30°, 45°, 60°; applications to simple problems in heights and distances; review of fractional linear and quadratic equations; arithmetic and geometric progressions; application to compound interest, annuities and life insurance.

Second Term:—Graphs of statistics; selected portions of the analytical geometry of the point, straight line, circle,

parabola and ellipse; application to curve of flight, parabolic reflector, etc.

2 hours per week; 2 credits.

Prerequisites: Middle School Mathematics.

Text: First Term—No text required.
Second Term—Crawley and Evans, *Analytical Geometry.*

17. **Business Arithmetic:** decimals, interest, discount, annuities, bond values, mensuration, etc. Prescribed for students in second year Commercial Economics course.

1 hour per week; 1 credit.

MR. WESTERVELT.

Text: McIntosh and Norman, *New Method Arithmetic.*

20a. **Algebra:** permutations and combinations; binomial theorem; logarithms; annuities; exponential and logarithmic series; mathematical induction.

2 hours per week; 1 credit.

Prerequisites: Mathematics 10a and 12b.

MR. WOODS.

Text: Hall and Knight, *Higher Algebra,* pp. 50-186 (Macmillan).

23b. **Trigonometry:** trigonometrical ratios and their relations; values of ratios of common angles; formulas of circular measure; applications; ratios of the sum and difference of two angles with derived formulae; logarithms; solution of triangles with derivation of the necessary formulae; radii of inscribed, escribed and circumscribed circles of a triangle; perimeters and areas of inscribed and circumscribed regular polygons of a circle.

2 hours per week, second term; 1 credit.

Prerequisites: Mathematics 10a and 12b.

MR. WOODS.

Text: Hall and Knight, *Elementary Trigonometry* (Macmillan).

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

1 hour per week; 1 credit.

Prerequisite: 20a or its equivalent.

MR. WOODS.

Text: Granville, *Differential and Integral 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. The lectures will be illustrated with lantern slides.

2 hours per week; 2 credits.

PROFESSOR KINGSTON.

Text: 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.

2 hours per week; 1 credit.

Prerequisites: Mathematics 20a, or its equivalent.

PROFESSOR KINGSTON.

Text: Rietz, Crathorne and Rietz, *Mathematics of Finance* (Holt).

Honour Courses

100. **Algebra:** review of permutations, combinations and binomial theorem; exponential and logarithmetic 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.

2 hours per week, first term; 1 hour per week, second term; 1½ credits.

Prerequisites: Upper School Mathematics, or Mathematics 10a, 12b, 23b.

MR. WOODS.

Text: Hall and Knight, *Higher Algebra*, pp. 187-340 (Macmillan).
References: C. Smith, *Treatise on Algebra* (Macmillan).
Chrystal, *Algebra* (Macmillan).

101b. **Synthetic Solid Geometry.**

2 hours per week, second term; 1 credit.

Prerequisites: As for Mathematics 100.

PROFESSOR KINGSTON.

Text: To be announced later.

102. **Analytical Plane Geometry:**

First Term:—Review of first course in analytic geometry; general treatment of the principal properties of the parabola, ellipse and hyperbola.

Second Term:—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.

2 hours per week, first term; 1 hour per week, second term; 1½ credits.

Prerequisites: As for Mathematics 100.

PROFESSOR PATTERSON.

Text: Grace and Rosenberg, *Co-ordinate Geometry* (Tutorial Press).
References: C. Smith, *Conic Sections* (Macmillan).
Loney, *Co-ordinate Geometry* (Macmillan).

103. Higher Trigonometry:

First Term:—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:

Second Term:—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.

1 hour per week; 1 credit.

Prerequisites: As for Mathematics 100.

PROFESSOR PATTERSON.

Texts: Lock, *Higher Trigonometry* (Macmillan).
Hobson, *Plane Trigonometry* (Cambridge).

104. 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.

1 hour per week; 1 credit.

Prerequisite: As for Mathematics 100.

MR. WOODS.

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

200. Algebra, Determinants and Theory of Equations:

First Term:—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.

Second Term:—Theory of equations as covered in text.
2 hours per week; 2 credits.
Prerequisite: Mathematics 100.

MR. WOODS.

Texts: Hall and Knight, *Higher Algebra* (Macmillan).
Burnside and Panton, *Theory of Equations*, *Vol.* 1 (Dublin University Press).
Reference: Dickson, *First Course in the Theory of Equations* (Wiley).

201a. **Modern Synthetic 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, first term; 1 credit.
Prerequisite: Mathematics 101b.

PROFESSOR KINGSTON.

Text: To be announced later.
References: Dupuis, *Elementary Synthetic Geometry* (Macmillan).
Durell, *Modern Geometry* (Macmillan).

202b. **Analytical 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, second term; 1 credit.
Prerequisite: Mathematics 102.

PROFESSOR PATTERSON.

Texts: 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 formulae; definite integrals; applications.

2 hours per week; 2 credits.

Prerequisite: Mathematics 104.

PROFESSOR PATTERSON.

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

206. **Analytical Solid Geometry.**

1 hour per week; 1 credit.

Prerequisites: Mathematics 102 and 104.

PROFESSOR KINGSTON.

Text: C. Smith, *Solid Geometry*, pp. 1-96 (Macmillan).
Reference: Aldis, *Solid Geometry*.

Group 3

NOTE.—Groups 3 and 4 will be given in alternate years, Group 3 in 1923-24.

303a. **Spherical Trigonometry:** the solution of the spherical triangle with applications to problems in geodesy and astronomy.

2 hours per week, first term; 1 credit.

Prerequisites: Mathematics 200-206.

PROFESSOR KINGSTON.

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

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 200-206.

PROFESSOR PATTERSON.

Text: 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. The lectures will be illustrated with lantern slides.

2 hours per week, first term; 1 credit.

PROFESSOR KINGSTON.

Texts: 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, second term; 1 credit.

Prerequisites: Mathematics 303a, 305a.

PROFESSOR KINGSTON.

Text: Barlow and Bryan, *Elementary Mathematical Astronomy* (Briggs and Bryan, Tutorial Series).
References: Holt, *Manual of Field Astronomy* (Wiley).
Campbell, *Elements of Practical Astronomy* (Macmillan).

306. **Analytical 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 200-206.

PROFESSOR KINGSTON.

Text: 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.*

308b. **History of Mathematics.**

2 hours per week, second term; 1 credit.

Texts: Cajori, *A History of Mathematics* (Macmillan).
Fink, *A Brief History of Elementary Mathematics* (Open Court).

Group 4

400a. Vector Analysis.
2 hours per week, first term; 1 credit.
Prerequisite: Mathematics 200-206.

MR. WOODS.

Text: 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 range 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; Pluckei's numbers; residuation; genesis and properties of various plane curves; roulettes.

2 hours per week; 2 credits.
Prerequisites: Mathematics 200-206.

PROFESSOR PATTERSON.

Texts: 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).

403. Theory of Functions of Complex Variable.
2 hours per week; 2 credits.
Prerequisites: Mathematics 200-206.

MR. WOODS.

Texts: 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).

404b. Advanced Calculus: selected topics.
2 hours per week, second term; 1 credit.
Prerequisites: Mathematics 200-206.

PROFESSOR KINGSTON.

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

407a. **Finite Differences:** fundamental difference forms; factorial expansions; Herschel's and Maclaurin's Theorems; interpolation formulae; statistical applications; mechanical quadratures; finite integration; Euler-Maclaurin sum series.
2 hours per week, first term; 1 credit.
Prerequisites: Mathematics 200-206.

PROFESSOR KINGSTON.

Text: Burn and Brown, *The Elements of Finite Differences* (Spectator).
Reference: Boole, *Finite Differences* (Macmillan).

407b. **Theory of Probability in Life Insurance:** the general theory of probability; the mortality table; probabilities of life; expectations of life; survivorship probability; the law of mortality.
2 hours per week, second term; 1 credit.
Prerequisites: Mathematics 200-206.

PROFESSOR KINGSTON.

Texts: Fisher, *The Mathematical Theory of Probability* (Macmillan).
Todhunter, *Institute of Actuaries Text Book, Part II* (Spectator).
Reference: Hall and Knight, *Higher Algebra* (Macmillan).

408. **Seminar:** subject to be arranged.
1 hour per week; 1 credit.
Prerequisites: Mathematics 200-206.

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:

Theory of Invariants.
Theory of Numbers.
Synthetic Projective Geometry.
Projective Differential Geometry.
Modern Analytic Geometry.
Theory of Functions of a Real Variable.
Theory of Algebraic Functions.
Elliptic Integrals.
Celestial Mechanics.
Advanced Actuarial Science.

DEPARTMENT OF PHILOSOPHY

University College

REV. G. B. SAGE, M.A., D.D.,	Lecturer
REV. W. R. MCINTOSH, B.A., B.D.,	Lecturer
REV. E. W. JEWETT, B.A.,	Lecturer

Assumption College

REV. C. COUGHLIN, B.A.,	Professor
REV. E. J. TIGHE, B.A.,	Professor
REV. C. DONOVAN, B.A.,	Associate Professor
REV. W. SHARPE, M.A., B.D.,	Lecturer
REV. E. J. WELTY, B.A.,	Lecturer

Ursuline College

REV. A. P. MAHONEY,	Lecturer
REV. J. H. POCOCK, B.A.,	Lecturer

20. **Logic:** Formal and Inductive; optional for students in the second year of the General Course.
1 hour per week; 1 credit. DR. SAGE.

Text-book: Jevons, *Elementary Lessons in Logic* (Macmillan).

21. **Psychology:** Sensation, Thought, Emotion, Volition; optional for students in the second year of the General Course.
1 hour per week; 1 credit.
DR. SAGE.

Text-books: Hunter, *General Psychology* (University of Chicago Press).
Angell, *Psychology* (Holt).

30. **History of Philosophy:** prescribed for the students in the third year of the General Course; lectures, assigned readings 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.
MR. JEWITT.

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.
DR. SAGE.

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

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.

MR. MCINTOSH.

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.*

Honour Courses

200. **Elementary Psychology.**
3 hours per week; 3 credits.

PROFESSOR DONOVAN.

220. **An Introductory Course in Logic:** inductive and deductive reasoning; the syllogism.
2 hours per week; 2 credits.

PROFESSOR DONOVAN.

230. **History of Philosophy:** a course of lectures in Greek Philosophy.
2 hours per week; 2 credits.

PROFESSOR SHARPE.

300. **Metaphysics.**
3 hours per week; 3 credits.

PROFESSOR TIGHE.

320. **Ethics.**
3 hours per week; 3 credits.

PROFESSOR COUGHLIN.

330. **Logic.**
2 hours per week; 2 credits.

PROFESSOR TIGHE.

340. **History of Philosophy:** Patristic and Mediaeval.
3 hours per week; 3 credits.

PROFESSOR SHARPE.

400. **Special Questions in Metaphysics.**
3 hours per week; 3 credits.

PROFESSOR TIGHE.

410. **Special Questions in Psychology.**
2 hours per week; 2 credits.

PROFESSOR TIGHE.

420. **Ethics.**
3 hours per week; 3 credits.

PROFESSOR COUGHLIN.

430. **History of Philosophy:** Modern.
3 hours per week; 3 credits.

PROFESSOR SHARPE.

DEPARTMENT OF PHYSICAL AND MILITARY TRAINING

Supervisors: Men—GEO. A. SMITH, M.D., M.C.
Women—MISS E. WYNNE PRYCE.

Students of the first and second years, men and women, are required to have (at the beginning of the year) physical examination, conducted by the Director of Physical Education. All students participating in Athletics, Gymnastics, etc. are required to pass an examination conducted by the Director. Managers of all teams are required to see that this regulation is carried out for their respective teams.

The hours four to six p.m., daily, except Saturdays, are reserved for the prescribed features of this department's work.

A student may elect any one of the following features within the Physical Education programme, and if his performance justifies he will receive credit for attendance at and performance of the prescribed or elective work of his year:

University Rugby,
University Track,
University Hockey,
University Basketball,
University Boxing, Wrestling and Fencing,
University Gymnastics,
University Tennis,

And such other activities as may be decided upon from time to time by the Committee on Physical Education.

10. **Physical Training for Women.** Required of all women students in the first year. Swedish gymnastics, calisthenics, simple folk and artistic dancing, basketball, swimming.
2 hours per week; 1 credit.

MISS PRYCE.

11. **Physical and Military Training for Men.** Required of all men in the first year. This course consists of Physical Training, one hour each week, and Military Training, practical, two hours, and theoretical (lecture), one hour.

The practical includes: Squad Drill, Platoon and Extended Order Drill, Company Drill, Battle Formation, Musketry, Lewis Gun and Bayonet Fighting.

The theoretical includes: Organization of the Battalion, Map Reading, Infantry in Battle, Advance and Rear Guards, Outposts, Military Law, Infantry in Attack and Defence.

4 hours per week, 2 credits.

DR. SMITH.

20. **Physical Training for Women.** Required of all women in their second year. Swedish gymnastics, calisthenics, advanced folk and artistic dancing, basketball, swimming and fencing.

2 hours per week; 1 credit.

MISS PRYCE.

21. **Physical and Military Training for Men.** Required of all men in the second year. A continuation of the Physical and Military Training of the first year.

4 hours per week, 2 credits.

DR. SMITH.

30. 40. **Advanced Physical Training for Women.** Optional for women of the third and fourth years. Open to those only who have had Physical Training 10 and 20.

2 hours per week each year; 1 credit each year.

MISS PRYCE.

31. 41. **Advanced Physical Training for Men.** Optional for men of the third and fourth years. Open to those only who have had Physical Training 11 and 21.

2 hours per week each year; 1 credit each year.

DR. SMITH.

DEPARTMENT OF PHYSICS

R. C. DEARLE, M.A., PH.D.,	Professor
R. L. ALLEN, M.A.,	Instructor
MISS A. W. FOSTER, M.A.,	Instructor
C. SMITH,	Student Assistant
K. THOMSON,	Student Assistant

All students taking laboratory work in Physics must make a deposit of five dollars with the head of the department to cover breakage, etc.

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.*
References: Watson, *General Physics.*
Ontario High School 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 23b.

Text-books: Hadley, *Electricity and Magnetism.*
Edser, *Light for Students.*
Catchpool, *Sound.*
References: Watson, *General Physics.*
Ontario High School Physics.

30. **Physical Measurements:** lectures on laboratory methods and practical work with emphasis on precision. Training is given in contracted methods of calculation, graphical solution of problems, also in some of the simpler laboratory arts, such as glass-blowing, etc.

3 laboratory hours per week; 1 credit.
Prerequisite: Physics 20.

Text-book: Goodwin, *Precision of Measurements.*
Reference: Stern & Topham, *Practical Mathematics.*

Honour Courses

100. **Mechanics and Heat:** fundamental laws of statics and dynamics with applications to machines, elasticity, periodic motion; laws of gases; surface tension; thermometry,

calorimetry, conductivity, hygrometry, mechanical equivalent of heat. Prescribed for all honour students of the first year.

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

Text-books: Allen and Moore, *Textbook of Practical Physics, Pts. I and IV.*
Edser, *Heat for Advanced Students.*
References: Watson, *Textbook of Physics.*
Poynting and Thomson, *Text-book of Physics, Vol. III.*

101. **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.

200. **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.*
Reference: Jeans, *Mechanics.*

201. **Electricity, Sound and Light:** lectures on the principles involved, including an elementary mathematical treatment of magnetic and electric fields, measuring instruments, electromagnetism, dynamos and motors, conduction through gases; reflection and refraction of light, mirrors and lenses, lens systems, dispersion, polarisation; wave-motion, propagation of sound waves, measurement of wave-length, velocity and pitch; musical scales, standards of pitch.

2 lectures, 6 laboratory hours per week, first term; 3 lectures, 6 laboratory hours per week, second term; 5 credits.

Text-books: See Physics 20.
References: Watson, *Text-book of Physics.*
Poynting and Thomson, *Text-book of Physics, Vols II, IV, V.*

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: 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 per week, 6 laboratory hours; 5 credits.

Text-book: Houston, *Light.*
References: Wood, *Physical Optics.*
Drude, *Theory of Optics.*

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 per week, 3 laboratory hours; 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 Harmonies.*
Ingersoll and Zobel, *Mathematical Theory of Heat Conduction.*

305. **Theory of Heat:** an intermediate course without extensive mathematical analysis, introducing the fundamental principles of thermodynamics, radiation and temperature measurements.

2 lectures per week; 3 laboratory hours; 3 credits.

Text-book: To be announced.

400. **Mathematical Theory of Potential:** a mathematical treatment of the electrical field and its properties.

2 lectures, per week; 2 credits.

Text-book: Foster & Porter, *Elementary Theory of 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.

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.*

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 per week; 3 laboratory hours; 3 credits.

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.

Reference: Current scientific Magazines and Periodicals.

405. **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 POLITICAL ECONOMY

Political Economy

PROFESSOR WOOD

20. **The Elements of Political Economy:** lectures, assigned reading; essays will be required as term work from all students.
2 hours per week; 2 credits.

Text-books: C. Gide, *Principles of Political Economy.*
T. N. Carver, *Principles of Political Economy.*
References: F. W. Taussig, *Principles of Economics.*
C. J. Bullock, *Selected Readings in Economics.*
J. G. Bartholomew, *Advanced Economic Atlas.*
The works of Adam Smith, Ricardo, Mill, Marx, Boehm-Bawerk, Marshall, Smart, Nicholson, Ely, etc.

30a. **The History of Economic Theories.**
3 hours per week, first term; 1½ credits.
Prerequisite: Political Economy 20.

Text-book: J. K. Ingram, *History of Political Economy.*
References: L. H. Haney, *History of Economic Thought.*
G. Gide and C. Rist, *History of Economic Doctrines.*
W. Smart, *Economic Annals of the Nineteenth Century.*

30b.

(I) Corporation Finance, including a study of the Stock Markets.

Text-book: E. S. Mead, *Corporation Finance.*
References: Hastings Lyon, *Corporation Finance.*
S. S. Pratt, *The Work of Wall Street.*
W. C. Van Antwerp, *The Stock Exchange from Within.*
T. E. Burton, *Corporations and the State.*
H. Withers, *Stocks and Shares.*

(II) The Principles of Transportation.

Text-book: E. R. Johnson, *Elements of Transportation.*
References: Ray Morris, *Railroad Administration.*
H. B. Vanderblue, *Railroad Valuation.*
Cleveland and Powell, *Railroad Finance.*
D. Knoop, *Outlines of Railway Economics.*
Johnson and Huebner, *Principles of Ocean Transportation.*
B. O. Hough, *Ocean Traffic and Trade.*
P. M. Ogilvie, *International Waterways.*

3 hours per week, second term; 1½ credits.

40. **The Theory of Money:** the principles of (a) Banking, (b) Foreign Exchange; lectures, assigned reading; essays will be required from all students.

2 hours per week; 2 credits.

Prerequisite: Political Economy 30.

Text-books: J. F. Johnson, *Money and Currency.*
J. T. Holdsworth, *Money and Banking.*
References: W. S. Jevons, *Money and the Mechanism of Exchange.*
D. A. Barker, *Theory of Money.*
J. L. Laughlin, *Principles of Money.*
N. B. Anderson, *The Value of Money.*
C. A. Phillips, *Readings in Money and Banking.*
H. White, *Money and Banking.*
E. E. Agger, *Organized Banking.*
Sir David Barbour, *The Standard of Value.*
G. J. Goschen, *Theory of the Foreign Exchanges.*
H. Withers, *Meaning of Money.*
Canada and Its Provinces, Volume X.

41b.

(I) **The Principles of Public Finance.**

Text-book: G. C. Plehn, *Introduction to Public Finance.*
References: C. F. Bastable, *Public Finance.*
E. R. A. Seligman, *Essays on Taxation.*
J. Lyon, *Principles of Taxation.*
D. A. Wells, *Theory and Practice of Taxation.*
V. Scheftel, *The Taxation of Land Value.*
Canada and Its Provinces. (Selected portions).

(II) **International Trade and Tariff Systems.**

Text-books: C. F. Bastable, *Theory of International Trade.*
G. N. Fisk, *International Commercial Policies.*
Texts of the tariff arrangements of various nations.
References: T. Percy Ashley, *Modern Tariff History.*
F. Pierce, *The Tariff and The Trusts.*
H. G. Brown, *International Trade and Exchange.*
F. W. Taussig, *Tariff History of the United States.*
D. C. Roper, *Tariff Handbook.*

2 hours per week, second term; 1 credit.

200. Identical with 20.

201a. **Commercial Geography.**
2 hours per week, first term; 1 credit.

Text-book: E. L. Curr, *Commercial Geography.*
References: L. W. Lyde, *Commercial Geography of the World.*
Spencer Trotter, *The Geography of Commerce.*
J. D. Whelpley, *The Trade of the World.*
G. R. Toothaker, *Commercial Raw Materials.*

202b. **Industrial History of Canada Since Confederation.**
2 hours per week, second term; 1 credit.

Text-books: *Canada and Its Provinces, Vol.* 9, *General Economic History,* 1867-1912, Government Reports dealing with matters of industry and tariff regulation.
References: G. Myers, *History of Canadian Wealth.*
E. Porritt, *Sixty Years of Protection in Canada.*

300. Identical with 30a and b.

301. **The Industrial and Commercial History of:**
(I) Great Britain from the Early Middle Ages.
(II) The Principal European Countries since 800 A.D.
(III) The United States from the Colonial Period.
2 hours per week; 2 credits.
Prerequisites: Political Economy 200, 201, 202.

Text-books: E. P. Cheyney, *Introduction to the Industrial and Social History of England.*
H. de B. Gibbins, *History of Commerce in Europe.*
K. Coman, *Industrial History of the United States.*
References: M. Briggs, *Economic History of England.*
E. Lipson, *Introduction to the Economic History of England.*
F. A. Ogg, *Economic Development of Modern Europe.*
Karl Buecher, *Industrial Evolution.*
Clive Day, *A History of Commerce.*
C. A. Herrick, *History of Commerce and Industry.*
E. L. Bogart, *Economic History of the United States.*
I. Lippincott, *Economic Development of the United States.*
Bland, Bowman and Tawney, *English Economic History* (Select Documents).

400. Identical with 40 and 41b.

402a. (I) **Labor Conditions and Problems.**
(II) **Socialism.**
(III) **Syndicalism and Allied Theories.**
Lectures, prescribed reading.
3 hours per week, first term; 1½ credits.

Text-books: F. T. Carlton, *History and Problems of Organized Labor.*
O. D. Skelton, *Socialism, a Critical Analysis.*
J. G. Brooks, *American Syndicalism.*
References: J. R. Commons, *Labor and Administration.*
Adams and Summer, *Labour Problems.*
G. B. H. Cole, *The World of Labour.*
C. M. Lloyd, *Trade Unionism.*
L. G. Chiozza Money, *The Future of Work.*
Thorold Rogers, *Six Centuries of Work and Wages.*
M. Hilquit, *Sbcialism in Theory and Practice.*
Thos. Kirkup, *A History of Socialism.*
I. B. Cross, *Essentials of Socialism.*
E. Aveling, *The Student's Marx.*
Documentary material embodying labour platforms, the manifestos of Socialism, and the policies of Syndicalism.

403a. **Rural Economics.**

2 hours per week, first term; 1 credit.

Text-book: H. C. Taylor, *Agricultural Economics.*
References: H. D. Harben, *The Rural Problem.*
L. D. H. Weld, *The Marketing of Farm Products*
G. H. Powell, *Co-operation in Agriculture.*
J. A. R. Marriott, *The English Land System.*
J. B. Mormon, *The Principle of Rural Credits.*

404b. **Problems of Distribution.**

2 hours per week, second term; 1 credit.

Text-book: J. R. Commons, *Distribution of Wealth.*
References: Irving Fisher, *The Nature of Capital and Interest.*
J. B. Clark, *The Distribution of Wealth.*
W. Smart, *Distribution of Income.*
G. A. Kleene, *Profit and Wages.*
C. G. Hoog, *Theory of Interest.*

Government and Law

MR. PERRIN

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; 1 credit.

Prerequisite: Political Economy 200, 201, 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; 1 credit.

Prerequisite: Political Economy 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; 1 credit.
Prerequisite: Political Economy 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; 1 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; 1 credit.
Prerequisite: 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; 1 credit.
Prerequisite: 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; 1 credit.
Prerequisite: Law 305, 307.

Text-book: Westlake, *International Law.*

DEPARTMENT OF PUBLIC HEALTH AND BACTERIOLOGY

DEAN HILL AND ASSOCIATE PROFESSOR LUNEY

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 hygiene of water, milk, food, flies and contact; the physiological principles involved in and the signficance 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 ROMANCE LANGUAGES

University College

L. P. SHANKS, PH.D.,	Professor
E. A. MÉRAS, L. ès L.,	Assistant Professor
O. F. W. ELLIS, M.A.,	Assistant Professor
MRS. L. R. MÉRAS, PH.D.,	Instructor

Assumption College

REV. L. J. BONDY, B.A.,	Professor

Ursuline College

M. M. ST. ANNE, M.A.,	Professor

FRENCH

The object of the General Course is to prepare the student with Junior Matriculation in the use of French as an instrument of study in connection with other subjects and as an instrument of culture. It aims at developing a facile and intelligible pronunciation of French, ability to understand spoken French, rapid reading, some control over the spoken language, a general view of French literature (from the reading in French of an elementary history of French Literature). The pass courses are all in charge of Mr. Méras, and are conducted entirely in French.

10. **The Modern Short Story:** grammar, dictation, conversation, translation into French, and some training in literary appreciation.

3 hours per week; 3 credits.

PROFESSORS BONDY, ST. ANNE, MÉRAS, ELLIS AND MRS. MÉRAS.

Text-books: Buffum, *French Short Stories* (Holt).
Skinner and Dow, *Contes des Romanciers Naturalistes* (Heath).
Carnahan, *French Review Grammar* (Heath).
Collateral Reading: LeSage, *Gil Blas* (Holt).
Sand, *La Mare au Diable* (Heath).
France, *Le Livre de mon Ami* (Holt).
Michelet, *Extraits de l'Histoire de France* (Heath).

20. **Masterpieces of French Literature:** dictation, conversation and prose composition.

Prerequisite: French 10.

3 hours per week; 3 credits.

PROFESSORS SHANKS, BONDY, ST. ANNE AND MÉRAS.

Text-books: Daudet, *Tartarin de Tarascon.*
Augier, *Le Gendre de Monsieur Poirier.*
Hugo, *Hernani.*
Voltaire, *Contes.*
Corneille, *Le Cid.*
Molière, *Le Bourgeois Gentilhomme.*
Shanks and Méras, *French Composition.*
Collateral Reading: Loti, *Ramuntcho.*
Balzac, *Le Curé de Tours.*
B. de St. Pierre, *Paul et Virginie.*
Beaumarchais, *Le Barbier de Seville.*
Marivaux, *Le Jeu de l'Amour et du Hasard.*
Racine, *Andromaque,* or LaFontaine, *Cent Fables* (Ginn).

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

Prerequisite: French 20.

3 hours per week; 3 credits.

PROFESSORS BONDY, ST. ANNE AND MÉRAS.

Text-books: Racine, *Brittanicus.*
Molière, *Le Misanthrope.*
Rousseau, *Selections.*
Musset, *Selections,* Kuhn's Edition.
Balzac, *Cinq Scènes de la Comédie Humaine.*
DesGranges, *Morceaux Choisis de la Littérature Française.*
Shanks and Méras, *French Composition.*
Collateral Reading: Molière, *L'Avare.*
Voltaire, *Lettres.*
Diderot, *Selections.*
Chateaubriand, *Atala.*
Loti, *Le Roman d'un Enfant,* or France, *Le Crime de Sylvestre Bonnard.*
DesGranges, *Morceaux,* in parts.
DesGranges, *Histoire de la Littérature Française,* for reference.

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

2 half-hours per week; ½ credit.

PROFESSOR MÉRAS.

40. **The French Drama:** conversation and free composition. Not given in 1923-24. See French 48 below.

Prerequisite: French 30.

3 hours per week; 3 credits.

PROFESSORS BONDY, ST. ANNE AND SHANKS.

Text-books: Corneille, *Cinna, Le Menteur.*
Racine, *Phèdre.*
Voltaire, *Zaire.*
Hugo, *Ruy Blas.*
Musset, *Comédies.*
Dumas, *La Question d'Argent.*
Rostand, *Cyrano de Bergerac.*
Hervieu, *La Course du Flambeau.*
Brieux, *Blanchette.*
Collateral Reading: Rotrou, *Saint-Genest et Venceslas.*
Sedaine, *Le Philosophe sans le Savoir.*
Vigny, *Chatterton.*
Augier, *Le Fils de Giboyer.*
Scribe, *La Bataille des Dames.*
Pailleron, *Le Monde où l'on s'ennuie.*
Donnay, *Les Amants.*
Maeterlinck, *Pélléas et Mélisande.*

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

2 half-hours per week; ½ credit.

48. **The French Novel:** its development from the seventeenth century to the present time. Conversation and reports in French. Students in this course will read a 300-page novel, in French, every two weeks, from a selected list; the lectures will be based upon Morillot, *Le Roman en France.*

To be given in 1923-4.

Prerequisite: French 30.

3 hours per week; 3 credits.

49. **French Poetry:** its evolution and its influence upon English literature. Conversation and critical reports in French. Counts as 40 but will not be given in 1923-4.

Prerequisite: French 30.

3 hours per week; 3 credits.

Only one of French 40, 48, 49, can be given in any one year at present. Text-books: Des Granges, *Morceaux Choisis*; Canfield, *French Lyrics*; Gauthier-Ferrières, *Anthologie des Ecrivains Français Contemporains*; Des Granges, *Histoire de la Littérature Française*; Brunetière, *L'Evolution de la Poésie Lyrique en France au XIXe Siècle.*

Honour Courses

The Honour Course aims at developing in the student: (1) An intelligible and facile pronunciation of French; (2) A knowledge of grammar and syntax required for teaching the elements of the language; (3) A rapid and accurate ability in reading French of various styles; (4) Sufficient familiarity with the content of French literature and the terminology of criticism and literary history for beginning graduate work in Canadian or American Universities. About one-third of the work is devoted to grammar and composition. The courses are conducted to a large extent in French. Notable deficiency in pronunciation at the end of the first year will bar the student from continuing the Honour Course.

100. **Modern French Literature:** conversation, dictation and prose composition. Prescribed for honour courses in Modern Languages and Romance Languages, and optional for honours in English and History.

3 hours per week; 3 credits.

PROFESSORS ST. ANNE AND MÉRAS.

Text-books: Buffum, *French Short Stories.*
Skinner and Dow, *Contes des Romanciers Naturalistes.*
Mérimée, *Carmen,* and Other Stories.
Daudet, *Tartarin sur les Alpes.*
Shanks and Méras, *French Composition.*
Outside Reading: LeSage, *Gil Blas.*
Sand, *La Mare au Diable.*
Musset, *Comédies.*
Augier, *Le Gendre de Monsieur Poirier.*
France, *Le Livre de mon Ami.*
Michelet, *Extraits de l' Histoire de France.*
B. W. Wells, *A Century of French Fiction.*

200. **The Literature of the Seventeenth Century:** lectures, reading, conversation, dictation and prose composition. Prescribed for honours in Modern Languages, Romance Languages; optional for Honours in English and History.

Prerequisite: French 100.

3 hours per week; 3 credits.

MRS. MÉRAS.

Text-books: Schinz and King, *Seventeenth Century French Readings,* in toto.
Corneille, *Le Cid, Horace, Cinna, Polyeucte.*
Boileau, *Art Poétique.*
Racine, *Andromaque, Britannicus, Phèdre, Athalie, Esther.*
Molière, *Les Précieuses Ridicules, Les Femmes Savantes, Le Tartuffe, Le Misanthrope.*
Perrault, *Contes,* Mme. de Lafayette, *La Princesse de Clèves.*
Koren, *French Composition.*
References: Crane, *La Société Française au 17ième Siècle.*
Wright or Abry-Audic-Crouzet, etc.

300. **The Literature of the Eighteenth Century:** lectures, reading, conversation, dictation and essays in French.

Prescribed for Honours in Modern Languages and Romance Languages; optional for Honours in English and History.

Prerequisite: French 200.

3 hours per week; 3 credits.

PROFESSOR MÉRAS.

Text-books: Montesquieu, *Lettres Persanes.*
LeSage, *Turcaret, Gil Blas.*
Voltaire, *Contes*, etc.
Marivaux, *Comédies.*
Diderot, Selections.
Rousseau, Selections.
B. de St. Pierre, *Paul et Virginie.*
Beaumarchais, *Le Barbier de Séville, Le Mariage de Figaro.*
Taine, *L'Ancien Régime.*
Faguet, *Dix-huitième Siècle.*
References: Lanson, *Histoire de la Littérature Française*, Petit de Julleville, etc.

301. **Old French:** vowel change, Old French declension, recognition of verb forms; prescribed for third year students in French Honours.

Prerequisite: Latin 10, 20 or 100, 200; French 200.

1 hour per week; 1 credit. Not given in 1923-1924.

PROFESSOR MÉRAS.

Text-books: *Chanson de Roland, Aucassin et Nicolette.*
Paris, *La Littérature au Moyen Age.*
Luquiens, *An Introduction to Old French Phonology and Morphology.*

302. **Old Provencal:** grammar of the *langue d'oc*; history of the troubadours; selections from their works.

Prerequisite: Latin 10, 20 or 100, 200; French 200.

1 hour per week; 1 credit.

PROFESSOR MÉRAS.

Text-book: Bartsch, *Chrestomathie.*
For Reference: Anglade, *Les Troubadours* and *Grammaire de l'ancien Provençal.*

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

Prerequisite: French 300.

3 hours per week; 3 credits.

PROFESSOR SHANKS.

Text-books: Henning, *French Lyrics of the Nineteenth Century.*
Chateaubriand, *Atala, René.*
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.*
References: Lanson, *Histoire de la Littérature Française*; Petit de Julleville, Pellissier, Brandes, Brunetière, Faguet, etc.

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

Prerequisite: French 300, or 30.

1 hour per week; 1 credit.

Text-books: Rambaud, *La Civilisation Française.*
Hourticq, *L'Art en France.*
Jago, *La France qui Travaille.*
Reference Books to be announced.

Courses Leading to the Degree of M.A.

French 40, 48, 49, supplemented by advanced collateral reading lists and a thesis, may be offered for graduate credit. French 300, 301, 400 and 401 may be elected under similar conditions. If the required number of students present themselves, one of the following courses will be offered from time to time:

The Fifteenth and Sixteenth Centuries in French Literature.

The Classical Age in French Literature.

Contemporary French Literature.

Explications de textes.

ITALIAN

100. Grammar, pronunciation, conversation, dictation; prescribed for first year students in Honour Romance Languages. Given in 1923-24.

3 hours per week; 3 credits.

PROFESSOR SHANKS.

Text-books: Phelps, *Italian Grammar.*
Wilkins-Altrocchi, *Italian Short Stories.*
Dante, *Vita nuova.*
De Amicis, *Cuore.*
Manzoni, *I Promessi Sposi.*

200. Grammar, conversation, dictation, compositions; prescribed for Honours in Romance Languages.

Prerequisite: Italian 100. Not given in 1923-1924.

3 hours per week; 3 credits.

Text-books: Phelps, *Italian Grammar.*
Oxford Book of Italian Verse.
Dante, *Vita nuova, La Divina Commedia.*

300. **Italian Literature During the Renaissance:** selection from Petrarch, *Le Rime*; from Boccaccio, *Il Decamerone*;

from Pulci, Boiardo, Ariosto and Tasso (Ford's *Italian Romances of Chivalry*); Oxford Book of Italian Verse. Prescribed for Honours in Romance Languages. Not given in 1923-1924.

Prerequisite: Italian 200.

3 hours per week; 3 credits.

PROFESSOR SHANKS.

400. **Modern Italian Literature.** Prescribed for fourth year students in Romance Languages Honours. Not given in 1923-1924.

SPANISH

100. **Elementary Course:** grammar, pronunciation, dictation, conversation, collateral reading, translation, memorization of short fables and poems. Prescribed for first year students in Romance Languages Honours.

Each student taking this course will be required, in the first year, to read and to write a report on at least one of the books recommended for reference. Students taking the commercial courses may read, instead, and write a report on, Bryce's Spanish America, or a suitable substitute approved by the instructor in Spanish 100.

Prerequisite: Complete Entrance Requirements.

3 hours per week; 3 credits.

PROFESSOR ELLIS AND MRS. MÉRAS.

Text-books: Hills and Ford, *First Spanish Course.*
Schevill, *A First Reader in Spanish.*
Ford, *Spanish Fables in Verse.*
Pèrez Escrich, *Fortuna*; Carrìon y Aza, *Zaraguëta* (Heath, in one volume).
Morley, *Spanish Humour in Story and Essay.*
Collateral Reading: Rivera and Doyle, *En España.*
M. Romera-Navarro, *América Española.*
Giese and Cool, *Spanish Anecdotes.*
Bransby, *A Spanish Reader.*
For Reference: Ford's *Gatherings from Spain* (Everyman).
Ford's *Spain and the Spaniards* (Putnam).
Havelock Ellis, *The Soul of Spain* (Houghton, Mifflin Co.).
S. L. Bensusan, *Home Life in Spain* (Macmillan).
Hume, *The Spanish People.*
Hume, *Modern Spain.*
The Encyclopaedia Britannica, Article on *Spain.*

200. Selections from the literature of the nineteenth and twentieth centuries, for reading and translation; lectures on the history of Spanish and Spanish-American prose and

poetry, from the year 1700 to the present time; grammar, conversation, translation into Spanish.

Prerequisite: Spanish 100, or its equivalent.

3 hours per week; 3 credits.

PROFESSOR ELLIS.

Text-books: Valera, *El Comendador Mendoza*, or *Pepita Jiménez.*
Valdès, *José*, or *La Hermana San Sulpicio.*
Galdòs, *Doña Perfecta*, or *Marianela.*
"Los Quintero," *Doña Clarines.*
Benavente, *Tres Comedias.*
Nunez de Arce, *El Haz de Leña.*
Hills and Morley, *Modern Spanish Lyrics*, Pages 128-252.
Crawford, *Temas Españoles.*
Waxman, *A Trip to South America.*

Collateral Reading: Alarcòn, *El Capitán Veneno*, or *El Final de Norma.*
El Sombrero de Tres Picos.
Hills and Reinhardt, *Spanish Short Stories.*

History of Literature: Ford, *Main Currents of Spanish Literature.*
Fitzmaurice-Kelly, *History of Spanish Literature.*
Ticknor, *Spanish Literature.*
Goldberg, *Studies in Spanish-American Literature.*
Coester, *The Literary History of Spanish America.*

For Reference: The same as in Spanish 100.

300. A brief introduction to the Golden Age of Spanish Literature, and a complete review of the literary movements included in Spanish 200; lectures, translation of Spanish text-books, translation into Spanish, collateral reading. All students in 300 and 400 must have the Appleton *Spanish Dictionary.*

Prerequisite: Spanish 200, or its equivalent.

3 hours per week; 3 credits.

PROFESSOR ELLIS.

Text-books: Northup, *Ten Spanish Farces.*
Isla, *Lesage's Gil Blas* (Heath).
Moratin, *El si de las Niñas* (Ginn).
Ford, *A Spanish Anthology*, Pages 191-333.
Hills and Morley, *Modern Spanish Lyrics*, Pages 1-128.
Espronceda, *El Estudiante de Salamanca.*
Rivas, *Don Alvaro.*
Zorrilla, *Don Juan Tenorio.*
Hartzenbusch, *Los Amantes de Teruel*, or *La Coja y el Encogido.*
Caballero, *Un Servilón y un Liberalito* (Heath), or *La Familia de Alvareda* (Holt).
Cool, *Spanish Composition.*

Collateral Reading: Mesonero Romanos, *Selections* (Northup).
Martínez Sierra, *Canción de Cuna.*
Tamayo y Baus, *Lo Positivo.*
Echegaray, *O Locura o Santidad.*
Other works to be selected.

400. **The Golden Age and Earlier Literature:** translations of Spanish prose and poetry; the study of literary movement

and writers, prior to the year 1700; collateral reading; written dissertations.

Prerequisite: Spanish 300, or its equivalent.

3 hours per week; 3 credits.

PROFESSOR ELLIS.

Text-books: Cervantes, *Don Quijote* (Ford); *Novelas Ejemplares.*
Lope de Vega, *Amor sin Saber á Quién,* or *La Moza de Cántaro.*
Tirso de Molina, *Don Gil de las Calzas Verdes.*
Calderón, *El Alcalde de Zalamea,* or *La Vida es Sueño.*
Ruiz de Alarcón, *Las Paredes Oyen.*
Ford, *A Spanish Anthology,* Pages 61-190.
Morley, *Spanish Ballads.*
For reference and study (in addition to the works already mentioned, in Spanish 100):
Hume, *The Court of Philip IV* (London, 1907).
H. A. Rennert, *The Life of Lope de Vega* (Glasgow, 1904).

401. **Phonology and Morphology of Spanish:** an introduction, together with readings in old Spanish, supplementary to 400. Primarily for students in Romance Honours.

Prerequisites: Spanish 300.

1 hour per week; 1 credit.

PROFESSOR ELLIS.

Text-books: Ford, *Old Spanish Readings.*
Ford, *A Spanish Anthology,* Pages 1-60.
For Reference: R. Menéndez Pidal, *Manual de Gramática Historica Española.*

DEPARTMENT OF ZOOLOGY

A. D. ROBERTSON,	Professor
J. D. DETWILER,	Assistant Professor
M. A. MCINTOSH,	Assistant
H. BATTLE,	Student Demonstrator
H. BERDAN,	Student Demonstrator
C. MCCALLUM,	Student Demonstrator
F. W. CLAASSENS,	Technician

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

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

2 lectures and 4 laboratory hours per week for one term; 2 credits.

Prerequisites: Junior Matriculation.

PROFESSOR ROBERTSON AND ASSISTANTS.

Text-books: Shull, *Principles of Animal Biology.*
Shull, *Laboratory Directions in Principles of Animal Biology.*

20. **Invertebrate Zoology:** for second year General Course students and for Medical students of the first year; a course dealing with selected Invertebrate types from the comparative and evolutionary point of view.

2 lectures and 4 laboratory hours per week for one term; 2 credits.

Prerequisites: for Medical students, Botany 10; for Arts students, Zoology 10 and Botany 10.

PROFESSOR DETWILER.

Text-books: Kerr, *Zoology for Medical Students.*
Hegner, *College Zoology.*
Hyman, *A Laboratory Manual for Elementary Zoology.*

21. **Chordate Zoology:** for Medical students of the second year; a course dealing with the structure and evolution of the Chordates.

2 lectures and 6 laboratory hours per week; 5 credits.

Prerequisites: Zoology 20 and Botany 10.

PROFESSOR ROBERTSON AND ASSISTANTS.

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.*

30. **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, for one term; 2 credits.

Prerequisites: Zoology 20 and Botany 20.

PROFESSOR ROBERTSON AND ASSISTANTS.

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.*

40. **Animal Ecology:** a course dealing with the ecology of animals. This course will stress investigation of special phases of ecology and will involve classification and economic relations. For General Course students.

2 lectures and 4 laboratory hours per week for one term; 2 credits.

Prerequisites: Zoology 30 and Botany 30.

PROFESSOR DETWILER.

References: Ward and Whipple, *Fresh-Water Biology.*
Needham and Lloyd, *Life of Inland Waters.*
Shelford, *Animal Communities of Temperate America.*
Comstock, *Manual for the Study of Insects.*
Comstock, *The Spider Book.*
Jordan, *Manual of the Vertebrates.*

Honour Courses

100. **Elementary Zoology:** for Honour Biology, 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.

PROFESSOR ROBERTSON AND ASSISTANTS.

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, Honour 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.

PROFESSOR DETWILER.

Text-books: Hegner, *College Zoology.*
Petrunkevitch, *Morphology of Invertebrate Types.*
Hyman, *A Laboratory Manual for Elementary Zoology.*

300. **Chordate Zoology:** for students in the Honour Biology, Honour 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 one term; 2½ credits.

Prerequisites: Zoology 200 and Botany 200.

PROFESSORS ROBERTSON AND ASSISTANTS.

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.

PROFESSOR DETWILER.

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.

PROFESSOR ROBERTSON.

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.*

401. **Experimental Zoology:** for students in Honour Biology, Honour Science; a course dealing with tropisms, growth, regeneration, physiology, etc., in animals.

2 lectures and 6 laboratory hours per week for one term; 2½ credits.

Prerequisites: Zoology 300 and Botany 300.

PROFESSOR ROBERTSON AND ASSISTANTS.

References: Jennings, *Behaviour of the Lower Organisms.*
Schaeffer, *Ameboid Movement.*
Mast, *Light and the Behaviour of Organisms.*
Loeb, *Forced Movements, Tropisms and Animal Conduct.*
Davenport, *Experimental Morphology.*
Bayliss, *Principles of General Physiology.*

402. **Animal Ecology:** for Honour Biology and Honour Science students; in this course special problems will be assigned to individual students. This course will involve classification and economic relations.

2 lectures and 6 laboratory hours per week for one term; 2½ credits.

Prerequisites: Zoology 300 and Botany 300.

PROFESSOR DETWILER.

References: Ward and Whipple, *Fresh-Water Biology.*
Needham and Lloyd, *Life in Inland Waters.*
Shelford, *Animal Communities in Temperate America.*
Comstock, *Manual for the Study of Insects.*
Comstock, *The Spider Book.*
Jordan, *Manual of the Vertebrates.*

403. **Histology:** for Honour Biology students; a course dealing with the histology and cytology of animals.

2 lectures and 6 laboratory hours per week for one term; 2½ credits.

Prerequisites: Zoology 300 and Botany 300.

PROFESSOR ROBERTSON AND ASSISTANTS.

Text-book: Schafer, *Essentials of Histology.*

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

2 lectures and 6 laboratory hours per week for one term; 2½ credits.

Prerequisites: Zoology 300 and Botany 300.

PROFESSOR ROBERTSON AND ASSISTANTS.

Text-book: Prentiss and Arey, *Text-book of 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.

PROFESSOR ROBERTSON.

DEGREES CONFERRED IN 1922

Doctor of Laws

Arthur Philemon Coleman.
James Thomson Shotwell.

Doctor of Divinity

Norman Lewis Tucker.
Arthur Carlyle.

Diploma of Public Health

Walter Seymour Downham.
Roderick John Gordon.
Frederick Winnett Luney.

Master of Arts

Gilbert Norman Tucker.
Caroline Leger Vrooman.

Bachelor of Divinity

Frank Anderson.

Bachelor of Arts

(UNIVERSITY COLLEGE)

Fulton Varcoe Roscoe Bateson.
Lois Georgina Black.
Catherine Campbell.
Helen Isabel Carrothers.
Harry Allan Cave.
Clifford Warren Chapman.
Harold W. Dalgliesh.
Mary Bradley Granger.
William John Hodder.
Frederick Joseph James.
John Granville Jose.
Marjorie Philip McKee.
Harold Edward MacMahon.
John Sterling Pack.
William Ridley Parson.
William Welmore Priddle.
Ruth Rose Sanders.
Blanche Millicent Tancock.
George Arthur Forbes Wainwright.
Geraldine Edith Webster.
Shirley Elizabeth White.
Velma Louise Wilkey.

(ASSUMPTION COLLEGE)

William Edgar Dillon.
Wilfrid John Dwyer.
Thomas Alfred Guittard.
John Joseph Hall.
William Elliott Kelly.
Richard La Porte.
Alphonsus Bernard McIntyre.

Doctor of Medicine

John Henderson Alexander.
Robert Levi James Annett.
Carl Benson Bowen.
Sidney Gordon Chalk.
Charles Augustus Cline.
Henry Wendell Colborne.
Murray Scott Douglas.
John Heber Fisher.
Wendell Lochead Hughes.
Russell William Knight.
Joshua Hugh Lewis.
Wilfred John Lewis.
William Edgcombe Mace.
James Rodwell Marshall Martin.
Daniel Hubert McGinnis.
William Richard Quinn.
Hector Murray Simpson.
Thomas Ormiston Smith.

Certificate of Public Health Nurse

Edith Bagshaw.
Grace Elizabeth Maude Cruise.
Irene May Handford.
Allie Ainsley Hiles.
Elizabeth Regan.
Inez Margaret Roach.
Rena Logan Selby.
Marjorie White.
Gladys Beryl Wilson.

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Mr. J.H. Smith, Chatham, Ont.
Rev. J.J. Paterson, The Manse, St. Andrew's Church, Sarnia, Ont.
Mr. N.E. Birtch, Woodstock, Ont.
Mr. A.A. Colquhoun, Staffa, Ont.

For use within
the University.

From Mabel Hynd Nov. 14 192[2]

To Mrs. Patterson SENATE

Rt. Rev. David Williams, Bishopstowe, St. James St., London, Ont.
Mr. J.K.H. Pope, 259 Sydenham St., City.
Rev. H. Pocock, Brescia Hall, 556 Wellington St., City.
Rev. A.P. Mahoney " " " " " "
Dr. R. Ferguson, 141 Wortley Rd., City.
Rev. S.P. Irwin, Kingsville, Ont.
Rev. D.C. McGregor, 346 Queen's Ave., City.
Mr. H.B. Archer, 455 St. James St., City.
Principal W.H.T. Mooney, Collegiate Institute, City.
Rev. M.A. Brisson, St. Peter's Cathedral, City.
Dr. F R. Eccles, 288 Princess Ave., City.
Mr. John Dearness, Marley Place, City.
Mr. W.E. McKeough, Chatham, Ont.
Dr. Fred Guest ------
Judge J.A. Barron, Stratford, Ont.
Rev. D.W. Collins, Windsor, Ont.
Mr. J.L. Robson, R.R. #2, London, Ont.
Judge C.W. Colter, St. Thomas, Ont.
Dr. D.A. Maxwell, Windsor, Ont.
Mr. W. Lane, Goderich, Ont.

(over)