WESTERN UNIVERSITY

LONDON, CANADA

COLLEGE OF ARTS



Announcement 1921-1922

WESTERN UNIVERSITY

LONDON, CANADA

COLLEGE OF ARTS



Announcement 1921-1922

TABLE OF CONTENTS

	Page
Calendar	4, 5
Officers of Legislation, University	6
Officers of Administration, University	7
Officers of Instruction, University	8
General Information	15
Officers of Administration, College of Arts	19
Officers of Instruction, College of Arts	19
General Regulations, College of Arts	22
Medals, Scholarships, Prizes	31
Fees	32
Regulations for Specialists' and High School Assistants' Certificates	34
Requirements for Degrees	35
Description of Courses	60
Time Table of General Course Classes	120
Student Organizations	122
Appendix	123
Degrees Conferred, 1920	125
Index	126

1921

September

S	M	T	W	T	F	S
..	..	..	..	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	..
..	..	..	..	..	..	..

October

S	M	T	W	T	F	S
..	..	..	..	..	..	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	..	..	..	..	..

November

S	M	T	W	T	F	S
..	..	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	..	..	..
..	..	..	..	..	..	..

December

S	M	T	W	T	F	S
..	..	..	..	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
..	..	..	..	..	..	..

1922

January

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	..	..	..	..
..	..	..	..	..	..	..

February

S	M	T	W	T	F	S
..	..	..	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	..	..	..	..
..	..	..	..	..	..	..

March

S	M	T	W	T	F	S
..	..	..	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	..
..	..	..	..	..	..	..

April

S	M	T	W	T	F	S
..	..	..	..	..	..	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	..	..	..	..	..	..

May

S	M	T	W	T	F	S
..	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	..	..	..
..	..	..	..	..	..	..

June

S	M	T	W	T	F	S
..	..	..	..	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	..
..	..	..	..	..	..	..

UNIVERSITY CALENDAR

1921.

September 17	Last day for receiving applications for removal of conditions.
September 26	Examinations for removal of conditions College of Arts begin.
	Rugby practice begins.
September 30	Examinations for removal of conditions in the Medical School.
October 3, Monday	Registration Day.
October 4	Lectures begin.
	Statutory meeting of the Committee on Academic Standing.
October 5	Last day for registration except on penalty of one dollar.
	Last day for first term fees.
October 12	Last day for registration except on penalty of two dollars.
October 17	Last day of registration for all except Special Students in the College of Arts.
Thanksgiving Day	Holiday.
December 21, 5 p.m.	Christmas vacation begins.

1922.

January 3, 8 a.m.	Lectures resume.
	Last day for submitting outline for M.A. Theses.
January 23	Examinations first term begin.
January 28	First term ends.
January 30	Second term begins.
February 1	Last day for payment of second term fees.
April 12, 5 p.m.	Easter vacation begins.
April 18	Lectures resumed Medical School.
April 20, 8 a.m.	Lectures resumed in College of Arts.
May 6	Lectures for the second term in the College of Arts close.
May 8	Examinations for the second term in the College of Arts begin.
May 10	Lectures for the second term in the Medical School close.
May 11	Examinations in the Medical School begin.
May 20	Interscholastic athletic meet.
May 26	Convocation.

OFFICERS OF LEGISLATION.

The Board of Governors

MAJOR A. T. LITTLE, Chairman
THE CHANCELLOR, *ex officio*
THE PRESIDENT, *ex officio*
HIS WORSHIP THE MAYOR, *ex officio*

SIR ADAM BECK, LL.D.
MR. J. H. CHAPMAN
LIEUT-COL. T. S. HOBBS
MAJOR GORDON INGRAM
MR. PHILIP POCOCK
T. H. PURDOM, K.C.
MR. C. R. SOMERVILLE
MR. A. W. WHITE
MAJOR T. J. MURPHY

The Senate

THE PRESIDENT, Chairman, *ex officio.*
THE REGISTRAR, Secretary, *ex officio.*

	Representative of
DEAN W. S. FOX,	*Faculty of College of Arts.*
PROFESSOR N. C. JAMES,	*Faculty of College of Arts.*
PROFESSOR W. J. PATTERSON,	*Faculty of College of Arts.*
PROFESSOR A. D. ROBERTSON,	*Faculty of College of Arts.*
PROFESSOR W. F. TAMBLYN,	*Faculty of College of Arts.*
DEAN P. S. MCKIBBEN,	*Faculty of Medical School.*
DR. J. W. CRANE,	*Faculty of Medical School.*
DR. G. C. HALE,	*Faculty of Medical School.*
DR. F. R. MILLER,	*Faculty of Medical School.*
DR. E. HODGINS,	*Faculty of Medical School.*
DIRECTOR 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.*
RT. REV. DAVID WILLIAMS,	*Council of Huron College.*
MR. J. K. H. POPE,	*Council of Huron College.*
PRESIDENT J. T. MUCKLE,	*Assumption College.*
PROFESSOR W. C. SHARPE,	*Assumption College.*
REV. H. POCOCK,	*Ursuline College.*
REV. P. MAHONY,	*Ursuline College.*
MR. F. LANDON,	*Graduates of College of Arts.*
DR. R. FERGUSON,	*Graduates of Medical School.*
REV. S. P. IRWIN,	*Graduates of Huron College.*
C. B. EDWARDS, P. S. I.,	*Board of Governors.*
MR. H. B. ARCHER,	*Board of Governors.*
PRINCIPAL W. H. T. MOONEY,	*London Board of Education.*
REV. M. A. BRISSON,	*London Separate School Board.*

DR. F. R. ECCLES,	*City Council of London.*
DR. W. H. MOOREHOUSE,	*City Council of London.*
PRINCIPAL J. DEARNESS,	*City Council of London.*
MR. W. E. MCKEOUGH,	*City Council of Chatham.*
DR. FRED GUEST,	*City Council of St. Thomas.*
JUDGE J. A. BARRON,	*City Council of Stratford.*
REV. D. W. COLLINS,	*City Council of Windsor.*
MR. J. L. ROBSON,	*County Council of Middlesex.*
JUDGE C. W. COLTER,	*County Council of Elgin.*
DR. D. A. MAXWELL,	*County Council of Essex.*
MR. W. LANE,	*County Council of Huron.*
MR. J. H. SMITH,	*County Council of Kent.*
REV. J. J. PATERSON,	*County Council of Lambton.*
MR. N. E. BIRTCH,	*County Council of Oxford.*
MR. A. A. COLQUHOUN,	*County Council of Perth.*
	County Council of Waterloo.

OFFICERS OF ADMINISTRATION

Chancellor

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

President

No Appointment.

Executive Committee

DEAN FOX, DEAN MCKIBBEN, DIRECTOR HILL.

Registrar

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

Bursar

WILLIAM WAUGH, M.D., LL.D.

Librarian

MARJORIE ROSS, B.A.

Curator Barnett Library

J. DAVIS BARNETT, C.E., LL.D.

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, U the staff of Ursuline College, and W the staff of the College of Arts of Western University.)

President.

REV. LOUIS J. BONDY (A), *Professor of French.*
B.A., Toronto. 1919

H. HAYS BULLARD (W), *Professor of Pathology.*
461 Princess Ave.
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

REV. CHARLES COUGHLIN (A), *Professor of Psychology.*
Lecturer in English Literature.
B.A., Toronto. 1919

JAMES WELLINGTON CRANE (W), *Professor of Pharmacology.*
871 Hellmuth Ave.
M.B., Toronto, 1898; F. A. C. P., 1919; Head of the Department of Pharmacology. 1914

RAYMOND COMPTON DEARLE (W), *Professor of Physics.*
453 Horton St.
B.A., Toronto, 1914; M.A., *ibid*, 1915; Ph.D., *ibid*, 1919. 1919

ROBERT FERGUSON, *Professor and Chief of Department of Obstetrics and Gynecology.*
B.A., Toronto; M.D., Western, 1890. 1913

REV. DANIEL L. FORESTELL (A), *Professor of English.*
Lecturer in German.
B.A., Toronto. 1919

WILLIAM SHERWOOD FOX (W), *Professor of Classics.*
270 Regent St.
B.A., McMaster, 1900; M.A., *ibid*, 1906; Ph.D., Johns Hopkins, 1911. Dean of College of Arts. 1917

HIBBERT WINSLOW HILL (W), *Professor of Public Health.*
24 Belgrave Place.
M.B., Toronto, 1893; M.D., *ibid*, 1899; D.P.H., *ibid*, 1911; Dean of the Faculty of Public Health; Professor of Public Health in the Medical School. 1920

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

JOHN A. MACGREGOR, *Professor of Medicine.*
496 Waterloo St.
M.D., Western, 1892; F.A.C.P., 1919; Chief of Department of Medicine. 1920

REV. J. MCGUIRE (A), *Professor of Religious Knowledge.*
B.A., Toronto. 1919

PAUL STILWELL MCKIBBEN (W), *Professor of Anatomy.*
645 Waterloo St.

B.S., Denison, 1904; Ph.D., Chicago, 1911; Chief of the Department of Anatomy, Dean of the Medical School. 1913

FREDERICK ROBERT MILLER (W), *Professor of Physiology.*
Medical School.

B.A., Toronto, 1903; M.B., *ibid*, 1910; M.D., München, 1911, Chief of Department of Physiology. 1914

VERY REV. J. T. MUCKLE (A), *Professor of Greek.*

M.A., Catholic University of America; President of Assumption College. 1919

KENNETH PERCIVAL RUTHERFORD NEVILLE (W),
Professor of Classics.
190 Bridport St.

B.A., Queen's, 1896; M.A., *ibid*, 1897; B.A., Harvard, 1898; M.A., *ibid*, 1899; Ph.D., Cornell, 1901; Registrar of the University. 1908

WILLIAM JOHN PATTERSON (W), *Professor of Mathematics.*
856 Hellmuth Ave.

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

REV. J. C. PLOMER (A), *Professor of Ethics.*
1919

REV. WM. ROACH (A), *Professor of Metaphysics.*

B.A., Toronto. 1919

ALBERT DUNCAN ROBERTSON (W), *Professor of Biology.*
911 Wellington St.

B.A., Toronto, 1910. 1915

MOTHER M. ST. ANNE (U), *Professor of French.*

B.A., Queen's, 1909. 1919

MOTHER M. ST. MICHAEL (U), *Professor of English.*

B.A., Liverpool, 1907; M.A., Western, 1920. 1919

LEWIS PIAGET SHANKS (W), *Professor of Romance Languages.*
13 Oxford St.

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

WILFRID SHARPE (A), *Professor of Latin.*
Lecturer in Greek Philosophy.

B.A., Toronto; B.D., Catholic University of America; M.A., *ibid.* 1919

ALBERT JOSIAH SLACK (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

WILLIAM FERGUSON TAMBLYN (W), *Professor of English Literature.*
318 Grosvenor St.
B.A, Toronto, 1895; Ph.D., Columbia, 1900. 1902

SEPTIMUS THOMPSON, *Professor of Ophthalmology, Otology, Rhinology and Laryngology.*
443 Park Ave.
M.D., Western, 1900. 1913

WILLIAM JOSEPH TILLMAN, *Professor of Pediatrics.*
612 Richmond St.
M.D., Western, 1898. 1913

CHARLES CAMERON WALLER (W), *Professor of Hebrew.*
Huron College.
B.A., Cambridge, 1890; M.A., *ibid*, 1902; M.A., McGill, 1906; D.D., Western, 1915; Principal of Huron College. 1908

HADLEY WILLIAMS (W), *Professor of Surgery.*
441 Park Ave.
M.D., Western, 1883; F.R.C.S., England; F.A.C.S.; Chief of the Department of Surgery. 1913

LOUIS AUBREY WOOD (W), *Professor of Economics.*
296 Princess Ave.
B.A., Toronto, 1905; B.D., Montreal Presbyterian College, 1908; M.A.,Ph.D., Heidleberg, 1911. 1915

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

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

JAMES ROY NELSON CHILDS, *Associate Professor of Medicine.*
M.D., Western, 1909. 1913

ARTHUR GARRATT DORLAND (W), *Associate Professor of History.*
240 St. George St.
B.A., Queen's, 1910; M.A., Yale, 1911. 1920

GEORGE CARLETON HALE, *Associate Professor of Medicine.*
718 Waterloo St.
M.D., C.M., McGill. 1919

NELSON COLLINS HART (W), *Associate Professor of Biology.*
871 Waterloo St.
B.A., Toronto, 1915; M.A., *ibid*, 1916. 1919

EMERSON LEROY HODGINS, *Associate Professor of Surgery*
312 Oxford St.
M.B., Toronto, 1903. 1913

FREDERICK WINNETT LUNEY, *Associate Professor of Pathology.*
Institute of Public Health.
M.D., Western, 1914; Chief of Division of Pathology in Institute of Public Health. 1917

GEORGE MCNEILL, *Associate Professor of Clinical Surgery.*
245 Queen's Ave.
M.D., Western, 1902. 1913

WILLIAM J. ROBINSON, *Associate Professor of Psychiatry.*
M.B., Toronto, 1883. 1913

JOHN WILLIAM RUSSELL (W), *Associate Professor of Geology.*
386 Dufferin Ave.
B.A., McMaster, 1895; M.A., *ibid*, 1899. 1920

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

ERNEST HERBERT YOUNG, *Associate Professor of Psychiatry.*
Ontario Hospital.
M.D., Toronto. 1920

H. HOMER BLACK, *Assistant Professor of Obstetrics and Gynecology.*
469 King St.
Phm.B., Toronto; M.D., Western, 1906. 1913

JOHN C. LINDSAY, *Assistant Professor of Pediatrics.*
719 Dundas St.
M.B., Toronto, 1898; F.A.C.P., 1919. 1913

WILLIAM JOHN STEVENSON, *Assistant Professor of Obstetrics and Gynecology.*
389 Dundas St.
M.D., Western, 1896. 1913

ERNEST LEWIS WILLIAMS, *Assistant Professor of Obstetrics and Gynecology.*
363 Queen's Ave.
M.D., Western, 1899. 1913

ELNORA EVELYN KELLY ALBRIGHT (W), *Instructor in English.*
709 Colborne St.
B.A., Toronto, 1912; Barrister-at-Law, Alberta, 1919. 1920

ERNEST LEROY ARMSTRONG, *Instructor in Pathology.*
Institute of Public Heatlh.
M.D. Western, 1918. 1920

WILLIAM FRANCIS BABB, *Lecturer in Ophthalmology.*
455 Waterloo St.
M.D., Western, 1903. 1919

ELLIOTT NICHOL BALLANTYNE, *Instructor in Pathology.*
B.A., Western, 1910; M.D., *ibid*, 1917. 1920

FREDERICK GRANT BANTING, *Instructor in Surgery.*
442 Adelaide St.
M.B., Toronto, 1916. 1920

SAMUEL JAMES THOMAS BEAN, *Instructor in Medicine.*
229 Wharncliffe Rd.
M.D., Western, 1914. 1918

J. THORNLEY BOWMAN, *Instructor in Medicine.*
183 Wortley Rd.
M.D., Western, 1913. 1918

BATEMAN EDWARDS (W), *Instructor in Romance Languages.*
231 Hyman St.
B.A., Bowdoin, 1919. 1920

JOHN IRWIN FERGUSON, *Instructor in Pediatrics.*
141 Wortley Rd.
M.D., Western, 1900. 1916

STUART M. FISHER, *Instructor in Clinical Medicine.*
M.D., Western, 1909. 1919

ALFRED JAMES GRANT, *Instructor in Surgery.*
Hayman Court.
M.D., Western, 1901. 1920

*ROBERT HANNAH (W), *Lecturer in Public Speaking.*
367 Princess Ave.
B.A., Western, 1918; Post Graduate, University of Chicago, 1919. 1919

CHARLES AUGUSTUS HARRIS, *Instructor in Medicine.*
421 Dundas St.
M.D., Western, 1913. 1913

---

* On leave of absence, 1920-21.

FRANCIS WILLIAM HUGHES, *Lecturer in Medicine.*
234 Queen's Ave.
M.D., Western, 1894. 1913

GEORGE MELBOURNE BROCK (W), *Instructor in English, Faculty Supervisor of Athletics.*
186 Oxford St.
B.A. Toronto, 1913 1915

DUNCAN BROWN (W), *Lecturer in Biology,*
496 King St.
B.A., Queen's, 1908; M.A., *ibid*, 1912. 1920

REV. EDMUND T. BURNS (A), *Lecturer in French*
1919

FREDERICK JOHN HENRY CAMPBELL, *Instructor in Anatomy and Medicine.*
B.A., Western, 1912; M.D., *ibid*, 1917. 1917

FRANK ROBERT CLEGG, *Instructor in Obstetrics and Gynecology.*
405 Dundas St.
M.D., Western, 1912. 1916

GORDON LAFAYETTE CRAM (W), *Instructor in Romance Languages.*
340 Emery St.
B.A., Toronto, 1894; M.A., Columbia, 1904. 1920

WILMER LLOYD DENNEY, *Instructor in Pediatrics.*
260 Queen's Ave.
M.D., Western, 1917. 1920

WALTER SEYMOUR DOWNHAM, *Lecturer in Public Health.*
M.D., Western, 1912. 1918

JOHN C. HUNT, *Lecturer in Otology, Rhinology and Laryngology.*
M.D., Toronto. 1919

GEORGE LEIGH JEPSON, *Lecturer in Materia Medica and Instructor in Medicine.*
M.D., Western, 1910. 1913

FRED LANDON (W), *Lecturer in History.*
76 Bruce St.
B.A., Western, 1906; M.A., *ibid*, 1919. 1917

ARCHIBALD CLIFFORD LEWIS (W), *Instructor in Physics.*
321 Central Ave.
B.A., Toronto, 1915; M.A., *ibid*, 1920. 1920

JAMES ROBERT LETOUZEL, *Demonstrator in Pharmacology.*
M.D., C.M., McGill. 1920

*EDMOND A. MERAS (W), *Instructor in Romance Languages.*
580 Talbot St.
B.A., College of City of New York, 1917. 1919

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

JAMES LOUIS QUINLAN (A), *Lecturer in Mathematics.*
B.A.Sc., Toronto. 1919

GEORGE A. RAMSAY, *Instructor in Surgery.*
M.D., Western, 1910. 1919

BURTON H. ROBINSON (W), *Lecturer in Philosophy.*
1059 Richmond St.
B.A., Toronto, 1911; M.A., *ibid*, 1912. 1919

GEORGE BLOOMFIELD SAGE, *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, *Instructor in Anatomy.*
1225 Dundas St.
M.D., Western, 1905. 1913

W. P. TEW, *Instructor in Obstetrics and Gynecology.*
Colborne and Dundas Sts.
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, *Instructor in Surgery.*
M.D., Western, 1910. 1919

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

MARJORIE MCKEE, *Laboratory Assistant in Physiological Chemistry.*
15 Walnut St.

---

*On leave of absence, 1920-21.

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

GRACE MOORE, *Assistant in Bacteriology.*
B.A., Toronto, 1918.

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

OTHER OFFICIALS.

F. VARCOE R. BATESON, *Student Assistant in Biology.*
HELEN BATTLE, *Student Assistant in Biology.*
MARGARET BURNS, *Secretary to Dean of the Medical School.*
HARRY A. CAVE, *Student Assistant in Biology.*
WILLIAM JOHN HODDER, *Assistant in Library.*
MABEL HYND, *Secretary to the President.* 234 St. George St.
JOHN G. JOSE, *Student Assistant in Biology.*
LOIS GEORGINA BLACK, *Secretary to the Registrar.*
MARGARET MCINTOSH, *Student Assistant in Biology.*
JESSIE MACFARLANE, *Assistant in Library.*
DOROTHY WALTER, *Assistant in Library.*
B.A., Western, 1920.
ETHEL SULLIVAN, *Librarian, Medical School.*
WINNIFRED PEARSON, *Assistant in Library.*
B.A., Western, 1920.
DONA WALLER, *Assistant in Library.*

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. The main portion of the library, the Barnett collection, is located temporarily at 313 Cheapside Street, in charge of Dr. J. Davis

Barnett, who formed the collection and presented it to Western University in 1918. The general library is located in the University Annex on St. James Street with small departmental collections in the biology and geology laboratories.

With few exceptions any book in the University libraries may be borrowed and taken from the library. This privilege is extended to other than faculty and students under some light restrictions. 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.

In addition to the University libraries, faculty and students have the use of the book collections of the London Public Library, numbering about 40,000 volumes, and well supplied with works of reference. Other smaller collections in London that may be used by students bring the total library resources up to about 100,000 volumes. For special use rare volumes are secured from other libraries as loans.

The management of the University libraries is in the hands of a library committee composed of representatives from the various faculties and affiliated colleges. Extensive additions are being made to the book collections yearly, and during the past two years extensive gifts of valuable books have also been received.

General Librarian: Miss M. Ross.

Curator Barnett Library: J. Davis Barnett.

Assistants: Mr. W. J. Hodder, Miss D. Walter, Miss W. Pearson, Miss J. Macfarlane, Miss D. Waller.

GEOLOGICAL LABORATORY

The equipment of the Geology Department consists of models and collections of rocks, minerals and fossils, useful in illustrating the courses in geology and mineralogy. A collection of the Canadian ores and minerals of economic importance has been started, and through the generosity of the mining companies is constantly being enlarged. Dr. Edwin Seaborn has presented the University with the valuable collection gathered by his late father.

The present available working collections are made up as follows:—

Geologic and crystal models	97
Minerals	515
Rock Specimens	303
Canadian ores	100
Fossils	445
	1,460

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.).

ACADEMIC COSTUME

The degrees have their distinctive costume as follows:

Gowns

For Bachelor's degree, Cambridge shape with long, pointed sleeves, of black worsted stuff, untrimmed, open or closed. For Master's degree, Cambridge shape with long closed sleeves, of black worsted stuff or silk, untrimmed, open or closed. For Doctor's degree, Cambridge shape with round open sleeves, of black worsted stuff or silk, open, with facing down the front of black velvet, with three bars of black velvet across each sleeve; or with the facing and bars of the color of velvet that by convention pertains to the faculty in which the degree has been obtained, viz.:

Arts—white.
Medicine—dark green.
Science—gold yellow.
Laws—purple.
Theology—scarlet.

*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.

Hoods

Hoods shall be of the usual pattern, same material as the gown, black, length proportioned to the figure, maximum being three feet long for Bachelors, four for Masters and Doctors; the latter also have panels at the sides.

The edging or binding shall be of velvet of the color distinctive of the faculty granting the degree. (See above under gowns).

The lining of the hood shall be of silk of the official colors of the University, purple and white, arranged thus: purple background with two chevrons of white.

Caps

Caps shall be mortar-boards, black, of serge or broadcloth, with black tassel. The Doctor's cap may be of velvet. The tassel on the Doctor's cap may be altogether or half of gold thread.

College of Arts.

OFFICERS OF ADMINISTRATION.

President
Vacant

Dean
WILLIAM SHERWOOD FOX, PH.D.

Secretary
G. MELBOURNE BROCK, B.A.

Committee on Academic Standing
THE DEAN, THE REGISTRAR, PROF. ROBERTSON, MR. WOODS

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, M.A., PH.D.,
Professor of Physics.

WILLIAM SHERWOOD FOX, M.A., PH.D.,
Professor of Classics.

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

K. P. R. NEVILLE, M.A., 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.

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

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

LOUIS AUBREY WOOD, M.A., 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.

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

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

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

G. MELBOURNE BROCK, B.A.,
Instructor in English,
Faculty Supervisor of Athletics.

DUNCAN BROWN, M.A.,
Lecturer in Biology.

G. LAFAYETTE CRAM, M.A.,
Instructor in Romance Languages.

BATEMAN EDWARDS, B.A.,
Instructor in Romance Languages.

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

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

*EDMOND A. MERAS, M.A.,
Instructor in Romance Languages.

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

BURTON H. ROBINSON, M.A.,
Lecturer in Philosophy.

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.

*ROBERT Hannah, B.A.,
Lecturer in Public Speaking.

FREDERICK W. CLAASSENS,
Technician in Biology.

---

*On leave of absence, 1920-21.

College of Girls 1921-22

GENERAL REGULATIONS

ADMISSION

1. Candidates shall be admitted to the General Course in the College of Arts who present certificates of full Junior Matriculation or its recognized equivalent, as in section 8 (a) below. A medical examination must be passed by all students.

2. Candidates presenting certificates of Junior Matriculation or their recognized equivalents, lacking not more than two papers, may be admitted to the General Course, but must complete matriculation requirements before entering upon any work of the Third Year.

3. Candidates presenting certificates of Honor Junior Matriculation in one or more subjects or their recognized equivalents may be credited with First Year standing in the General Course in the subjects corresponding to their certificates except the laboratory courses in the sciences, but not more than 15 credits can be secured in this way.

4. Candidates for First Year standing in the General Course may be credited with the laboratory work in any of the sciences upon recommendation of the professor concerned, provided (a) note books are submitted in which the practical work has been recorded, and in addition (b) a certificate from the Principal of the High School or Collegiate Institute, stating that the records submitted are the results of the student's own work, and that the work performed and described represents, in the case of each science, at least one hundred hours of laboratory instruction and practical work in the Upper School.

5. The subjects of Pass Junior Matriculation are as follows: Latin, English, History, Mathematics, and any two of the following: Greek, French, German, Spanish, Experimental Science.

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

6. The pass standard for admission is forty per cent. in each subject, with an average of sixty per cent. The first-class honor standard is seventy-five per cent., the second-class honor standard sixty-six, and the third-class fifty per cent.

7. Candidates seeking admission on certificates other than those mentioned above must present official evidence of their academic standing to the Registrar, after which their standing in this University shall be determined by the Committee on Academic Standing.

N.B.—Students are advised to mail their qualifying certificates to the Registrar at least two weeks before the date of registration. After the committee has determined the admission value of these certificates they will be returned to the candidates.

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

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

(b) Equivalents of Honor Junior Matriculation are:

Ontario	Entrance to Faculty of Education.
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%; but allowance on Associate examinations will be given only in English, Latin, Greek and French).

SPECIAL STUDENTS

9. Special Students who are not candidates for a degree 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 the class. They will not be allowed to advance from year to year in a department without taking the regular examinations. Special students will not be admitted to more than twelve credits of work in any year.

10. Special Students may, at the beginning of any college year, on presenting qualifications for admission, be allowed to enroll as regular students and become candidates for degrees subject to the regulations governing such students. The work satisfactorily passed by them as special students will be put to their credit for the degree of B.A.

ADVANCED STANDING

11. All applications for admission *ad eundem statum* must be accompanied by official certificates of standing from the institutions where previous work has been done. These applications shall be referred to the committee on Academic Standing.

EXTRAMURAL STUDENTS

12. For sufficient reasons, students may, on application to the Senate, be allowed to enter upon or pursue the work of the courses, and to present themselves for examination at the appointed time, without attendance upon classes; but such extramural candidates for degrees must, before being enrolled, present certificates of Junior Matriculation in Arts, or equivalents (as in section 8 above). Provision may be made by the Senate for examination of extramural students at a local centre, the cost of the examination to be defrayed by the candidates. Extramural students are subject to a special fee of twelvedollars, to be paid annually at the time of registration. Extramural candidates for degrees must, if registered for the first time later than 1916, have attended upon lectures in this university for at least one year. For the details of this course see pages 26-27.

THE B.A. GENERAL COURSE

13. Candidates in the General Course in Arts shall be ranked in order of merit in each subject in the annual class lists in three grades, A, B, C; the minimum for grade A shall be seventy per cent. of the marks, and for grade B fifty-five per cent.; all who pass with less than fifty-five per cent., but not less than forty per cent. (the minimum for pass), shall be placed in grade C. But no student will be admitted to the degree of Bachelor of Arts (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 half the credits required for his degree and grade B on half the credits of the senior year.

14. In all subjects of the General Course, except the Sciences, the ratio of term-work marks to examination marks will be as fifty to one hundred. To pass, a student must obtain forty per cent. on the whole of a subject, with forty per cent. both in term work and in the examination. In an Honor Course and in the Sciences the ratio of term-work marks to examination marks is determined by the teaching staff in that subject. Term work will not be credited to a student beyond the year in which it is taken, if he has to pass a supplemental examination.

15. Students who have not attended at least **ninety** per cent. of the lectures for the term in a course shall be debarred from taking the sessional examination on that course.

16. Sessional examinations will be held for the general Arts courses in January and in May. The student must obtain the required percentage, at least forty, both for the first and for the second term's work in each course. Examinations will be held in May for those who have failed in the first term; in September for those who have failed in the second term's work or in the year's work in any course. Students conditioned at the May examinations will be expected to attempt to remove their conditions at the September examinations following, but supplemental examinations will not be allowed any one student in more than 6 credits of work.

17. Students failing to obtain forty per cent. on the supplemental examination in a course shall 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 students to take such courses the year after failure no matter what subject or subjects must be postponed to make this possible.

18. 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 application of this rule shall rest with the committee on Academic Standing.

19. A student, who, at the close of the September supplemental examination, has not obtained standing in at least two-thirds of the credit hours of the year, shall not rank as a student of the succeeding year.

20. A student who for two consecutive years has failed to obtain credit in half the work for which he has registered each year shall be dropped automatically from the University.

21. A student who has not been granted complete First Year standing may not enter upon any work of the Third Year; nor a student who has not been granted complete Second Year standing upon any work of the Fourth Year.

22. No credit towards a degree will be given for the first year of a foreign language unless that year is followed by a second year in the same language.

23. No optional course need be given unless it is elected by at least two students.

24. Preparatory Greek is offered as an option in the first year in the General Course for students who present full

matriculation without Greek. In order to count towards a degree, this Greek has to be supplemented by three years of college Greek.

THE B.A. EXTRAMURAL COURSE

25. Extramural courses shall be of two kinds (a) Complementary Extramural Courses and (b) Pure Extramural Courses.

Complementary Courses.

26 (1). A Complementary Extramural course is the extramural complement of one summer term course and must be completed at the May examinations of the winter session following the summer term attended. Only by fulfilling this condition is it possible for a student to proceed to the more advanced courses offered in the summer or winter terms.

(2). Each summer term course together with its complementary extramural course shall be equal in credit hours to the B. A. General Course subject that corresponds in prerequisite demands and in difficulty to it.

(3). Students are eligible to begin a Complementary Extramural Course upon passing 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.

Pure Extramural Courses.

27. These courses are independent of attendance upon lectures: they are open only to students who have completed four summer terms or their equivalent in the B. A. General Course. Courses in the Sciences, in Mathematics and in any elementary foreign language cannot under any circumstances be included among these courses. Students pursuing these pure extramural courses are subject to the same regulations in regard to exercises, essays, examinations, etc., as those pursuing complementary extramural courses

Registration.

28 (1). Registration Day for extramural students is the same as for intramural students.

(2). Extramural students are subject to the same penalties for late registration as intramural students and cannot register at all after Oct. 17th.

Examinations.

29 (1). *Pure Extramural Course* examinations are held at the same time as the Supplemental examinations in September; also in January and May.

(2). The *Complementary Extramural Course* examinations are held in January and May on such proportions of the work of the course as the instructor may determine.

(3). All these examinations may be held at a local centre if five or more students desire it and guarantee all expenses of the presiding examiner, who shall be appointed by the University.

Fees.

30 (1). The annual Registration fee is ten dollars payable to the Registrar at the time of registration.

(2). The examination fee for the September Pure Extramural courses is five dollars. The fee for the other regular examinations of the year, January and May, is five dollars payable in full at the first examination taken.

(3). Examination fees are payable as here outlined if examinations are held at a local centre.

(4). Extramural students shall at the time of registration pay a special fee of two dollars to cover cost of return of exercises and essays and defray cost of correspondence.

(5). Books may be borrowed from the University Library through any local Public Library or they may be had directly from the University Library by depositing a general guarantee of five dollars with the Registrar. This fee, minus deductions for postage, damages and losses, will be returned to the student at the end of the winter session.

B.A. HONOR COURSES

31. Honor courses shall extend over five years' registered attendance from Pass Junior Matriculation or four years, if the candidate presents Honor Junior Matriculation in four subjects or the equivalent thereof, except in the case of those admitted under 36, 37.

32. Candidates presenting certificates of Honor Junior Matriculation or their equivalent in at least four subjects together with Junior Pass Matriculation in the remaining subjects shall be admitted to the Honor Courses of the First Year in any department in the subjects in which their certificates show that they have obtained an average of at least third class honors (50%).

33. Candidates presenting certificates as in section 32 lacking one pass paper may be admitted to the Honor Courses, but must complete Matriculation requirements before entering upon any work of the Third Year.

34. Students who have completed the First Year of the General Course with not more than one star, and who have obtained at least sixty per cent. of the aggregate marks in the work for the year, may enter upon the First Year of an Honor Course in any departments in which they have obtained sixty-six per cent. of the aggregate marks in the work of those Departments.

35. Students of the General Course who have completed the First Year as in section 34 may enter the First Year of the Honor Courses in Mathematics and Physics if they have obtained said standard in Mathematics of the First and Second Years combined of the General Course.

36. Candidates who have obtained fifty per cent. of the aggregate marks in the work of the First Year General Course together with Analytical Geometry of the Second Year General Course will be admitted to the Honor Course in Political Science and may complete the course in three years.

37. Students of this University who have completed the First and Second Years of the General Course and who have obtained fifty per cent. of the aggregate of marks in each year may enter upon the Second Year of an Honor Course in any subject in which they obtained fifty per cent. of the marks in the First Year of the General Course and sixty-six per cent. of the marks in the Second Year, except the courses in Mathematics and the Sciences.

38. In the application of sections 31–37 Normal Entrance certificates are *pro tanto* equivalent to Pass Junior Matriculation certificates and Faculty Entrance certificates *pro tanto* equivalent to Honor Junior Matriculation certificates. See also section 8.

39. In the annual class lists the names of candidates who obtain honors in any department or subject shall be arranged in order of merit in three classes; those obtaining seventy-five per cent. and over of the total number of marks being placed in the first class; those obtaining sixty-six per cent. and less than seventy-five per cent. being placed in the second class; and those obtaining fifty per cent. and less than sixty-six per cent. being placed in the third class.

40. The regular examinations will be held for the Honor Courses in May; but where an Honor Course or a definite

portion of an Honor Course has been completed by the end of the fall term, the instructor may set the final examination on that portion of the course, examination to be during the regular January examination period.

41. A candidate pursuing an Honor Course who falls below the third class in his department shall not be allowed standing for the year.

42. A candidate who fails to obtain standing in his Honor Course may receive credit in the General Course on such conditions as the Senate may determine.

43. A candidate who competes for Honors at the examination for Bachelor of Arts, and fails to obtain the requisite number of marks to entitle him to be classed in Honors, may, on the recommendation of the examiners, be awarded a degree without Honors, it being at the option of the candidate to accept the award of such a degree, or to wait until a subsequent examination, and again compete for a degree in Honors.

44. An undergraduate who has obtained Honors in any department may, with the consent of the Senate, be transferred to any other department, and proceed therein; but as a prerequisite to obtaining the degree of Bachelor of Arts, he must, during his course, have passed the examinations in the subjects of the General Course required in the Honor Department to which he is transferred.

THE M.A. COURSE

45. Candidates must be graduates in Arts of this or some other accredited university with not lower than Second Class Honors (66%) in the Third and Fourth Years of a full Honor Course, or must have attained to the standing in the General Course indicated in section 46.

46. Graduates in Arts of this University who in the work of the last two years of the General Course obtained sixty per cent. of the aggregate possible marks, who did not fall below fifty-five per cent. in more than 6 credits and who obtained Grade A rank in at least 27 credits, of which 18 lie in the College of Arts, may be admitted as candidates for the Degree of Master of Arts.

47. 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 sections 45, 46.

48. Candidates may elect a course either (a) of extensive study, or (b) of intensive study.

49. All candidates must be in registered attendance in the College of Arts of this University for one academic year, must take a prescribed course, pass an examination therein and obtain at least Second Class Honors (66%) in it, if it lie in an Honor Department, or seventy-five per cent. if it lie in the General Course. The course may be taken in two academic years at the option of the candidate.

50. A candidate who passes the examinations of the Third and Fourth Years of the major subject or subjects of an Honor Course other than that in which he obtained Honors at graduation, and who obtains Second Class Honors (66%) therein and whose thesis is satisfactory, may be granted the Master's Degree under section 49.

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

52. All candidates shall present theses embodying the result of their own investigation in some department of study approved by the Faculty of the College of Arts.

53. 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 sixty-six per cent. if in an Honor course, or Grade A rank if in the General Course, in each of the Third and Fourth Years of his course.

54. The candidates must register not later than October 17th and submit to the Faculty of the College of Arts, through the Registrar, an outline of the proposed thesis, not later than January 1.

55. If the subject proposed and the outline submitted be adjudged satisfactory, the candidate shall be placed under the guidance of two of the professors in whose departments the subject of the thesis lies, who shall be responsible for conducting the examination and for reporting to the Faculty upon the character of the thesis and the result of the examination. The examination shall be given during the annual May examinations.

56. A type-written or printed copy of the completed thesis, bound in some permanent form, must be in the hands of the Registrar not later than April 1, and must be accompanied with the fee of **Twenty Dollars; ten dollars** of which will be returned to the candidate if unsuccessful.

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

THE LL.B. COURSE

58. 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 Honor 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, PRIZES

The Governor General's Medal, Fourth Year Honor English and History.

The U. A. Buchner Gold Medal, Fourth Year Honor Political Science.

The Typographical Union Gold Medal, Second Year English Composition.

Scholarships of Seventy-five Dollars each for:

First Year Honor Science.
First Year Honor English and History.
First Year Honor Mathematics and Physics.
First Year Honor Biology.
Second Year Honor Science.
Second Year Honor English and History.
Second Year Honor Mathematics and Physics.
Second Year Honor Political Economy.
Second Year Biology.
Third Year Honor Science.
Third Year Honor English and History.
Third Year Honor Political Science.
Third Year Honor Romance Languages.
Third Year Honor Biology.

Scholarships of Fifty Dollars each for:

General Proficiency in the Third Year of the General Course.

General Proficiency for the Second Year of the General Course (Given by F. G. Jewell, Esq.).

General Proficiency for the First Year of the General Course.

The Blake Scholarship, income from $1,500, given by an anonymous donor, for highest standing in Colonial History (43), Canadian History (301) and Colonial and Federal Law (Economics 406, 407).

The Alumnæ Scholarship, fifty dollars, available only for a female student; to be awarded by the Faculty according to merit, preference to be given to a student of the Third Year.

Nicholas Wilson Chapter, I. O. D. E. Scholarship, twenty-five dollars, for highest standing in first year Commercial Economics Course.

Prizes of Ten Dollars each for:

Fourth Year Constitutional History of England and Canada.
Third Year English.
Third Year History of Philosophy.
Second Year French.
Second Year German.
Second Year Latin.
First Year Physics.
First Year Mathematics.
First Year Biology.
First Year Chemistry.

The W. W. Tamblyn Prize for Elocution and Public Speaking.

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.

FEES

The following fees are payable to the Bursar:

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, each major, including examination	12.00
Tuition, each minor, including examination	6.00
Physical Training, each year	5.00
Students' Council Fee, each year	4.00
Caution Money, each year	5 00
Supplemental Examination, each paper, May or September	2.00
University Examination at dates other than January, May and September	10.00
Examination at a local centre	10.00
Change of Faculty	5.00
Change of Registration	1.00
Admission *ad eundem statum*	5.00
Certificate of Standing	2.00

Annual Enrolment, extramural student only	10.00
Degree of B.A	10.00
Degree of M.A	20.00
" " LL.B	20.00
" " B.D	24.00

NOTE—(1) A supplemental examination is an examination set on work in which a student has failed. Supplementals in May will be offered for those who failed in January; in September for those who failed in May. No special supplemental examination will be given within three months of failure.

(2) Tuition fees in full may be paid on or before Oct. 5. If paid in two instalments, $25.00 will be payable on or before Oct. 5; $27.00 on or before Feb. 1. This same principle will be applied to bills for less than full course tuition. Students must register and pay the fee for examination before presenting themselves for any papers.

(3) 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.

(4) 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 Honor 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 Honor 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.

2. Honor 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 Honor Matriculation.

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 Honor courses with the additional provision that in the final Honor work of the department in which Specialist standing is sought, the standard shall be at least Second Class Honors (66%).

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 Honor Course are numbered somewhere between 100 and 199; for second year students in an Honor 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; a number followed by S indicates that that course is offered in the summer session. 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. Courses indicated by a number followed by 'E' are for Extramural candidates for degrees. 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 Honor students. Latin 12S is a course offered in the summer session for those with first year qualifications.

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 Assistants' certificate.

First Year.

Subject	*Hours Per Week*	*Credits*
English 10	2	2
English 11	1	1
English 12	1	1
Latin 10	3	3
Mathematics 10, 11	3	3
Public Health and Bacteriology 10	1	1
Library Science 10a	1	½
Physical Training 10 or 11 or 12	2	1
and any *six* credits from the following:		
French 10	3	3
German 10	3	3
Greek 10	3	3
Hebrew 10	3	3
Biology 10a, 10b	5	3
Chemistry 10	5	3
Physics 10	5	3
Italian 100	3	3
Spanish 100	3	3

Second Year

English 20	2	2
English 22	1	1
Latin 20	3	3
Physical Training 20 or 21 or 22	2	1
and any *twelve* credits from the following:		
History 20	3	3

	Hours Per Week	*Credits*
Mathematics 20, 21, 22	3	3
French 20	3	3
German 20	3	3
Greek 20	3	3
Hebrew 20	3	3
Biology 20a, 20b	5	3
Chemistry 20	5	3
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
*French 10	3	3
*German 10	3	3
*Greek 10	3	3
*Hebrew 10	3	3
*Biology 10a, 10b	5	3
*Chemistry 10	5	3
*Physics 10	5	3
*Italian 100	3	3
*Spanish 100	3	3
Third Year		
English 30	3	3
History 30a, 30b	3	3
Philosophy 30	2	2
Philosophy 31	1	1
and any *nine* credits from the following:		
Geology 35	3	3
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
Biology 30a, 30b	5	3
Chemistry 30	5	3
Physics 30 or 40	5	3
Italian 300	3	3
Spanish 300	3	3
Geology 30	5	3
*History 20	3	3

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

	Hours Per Week	Credits
*Mathematics 20, 21, 22	3	3
*French 20	3	3
*German 20	3	3
*Greek 20	3	3
*Hebrew 20	3	3
*Biology 20a, 20b	5	3
*Chemistry 20	5	3
*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 40a, 40b	3	3
History 42, 43	2	2
and any *nine* 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
Political Economy 40	2	2
Geology 40	5	3
Chemistry 40	5	3
Biology 40a, 40b	5	3
Physics 40	5	3
Philosophy 40	2	2
*French 30	3	3
*German 30	3	3
*Hebrew 30	3	3
*Political Economy 30	2	2
*Biology 30a, 30b	5	3
*Chemistry 30	5	3
*Physics 30	5	3
*Spanish 300	3	3
*Italian 300	3	3
*Geology 30	5	3

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

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 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. 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.

First Year	*Credits*
English 10S, 10E (The equivalent of Eng. 10 of the winter session)	2
English 12S, 12E (Eng. 12)	1
Latin 10S, 10E (Latin 10)	3
Mathematics 10aS, 10aE, 10bS, 10bE (Mathematics 10)	1½
Mathematics 11aS, 11aE, 11bS, 11bE (Mathematics 11)	1½
and *nine* credits from:—	
French 10S, 10E (French 10)	3
German 1S, 1E or 10S, 10E (German 10)	3
Greek 1S, 1E, or 10S, 10E (Greek 10)	3
Biology 10aS, 10bS (Biology 10a 10b)	3
Physics 10aS, 10bS (Physics 10)	3
Hebrew 10	3

Second Year	
English 20S, 20E (Eng. 20)	2
English 22S, 22E (Eng. 22)	1
Latin 20S, 20E (Latin 20)	3

and any *twelve* credits from:—	*Credits*
History 20S, 20E (History 20)	3
Mathematics 20S, 20E, (Mathematics 20)	1
21S, 21E (Mathematics 21)	1
22S, 22E, (Mathematics 22)	1
French 20S, 20E (French 20)	3
German 20S, 20E (German 20)	3
Greek 20S, 20E (Greek 20)	3
Biology 20aS, 20bS (Biology 20a, 20b)	3
Physics 20aS, 20bS (Physics 20)	3
Political Economy 20S, 20E (Pol. Econ. 20)	2
Hebrew 20	3
*French 10S, 10E (French 10)	3
*German 10S, 10E (German 10)	3
*Biology 10aS, 10bS (Biology 10a, 10b)	3
*Physics 10aS, 10bS (Physics 10)	3
*Greek 10S, 10E (Greek 10)	3

Third Year

English 30S, 30E	3
History 31a, 31b	3
Philosophy 30, 31	3
and any *nine* credits from:—	
French 30	3
German 30	3
Greek 30	3
Hebrew 30	3
Latin 30	3
Political Economy 30	2
Chemistry 10aS, 10bS (Chemistry 10)	3
Geology 30aS, 30bS (Geology 30)	3
*History 20S, 20E (History 20)	3
*Mathematics 20S, 20E, 21S, 21E, 22S, 22E (Mathematics 20, 21, 22)	3
*French 20S, 20E (French 20)	3
*German 20S, 20E (German 20)	3
*Greek 20S, 20E (Greek 20)	3
*Biology 20aS, 20bS (Biology 20a, 20b)	3
*Physics 20aS, 20bS (Physics 20)	3
*Political Economy 20S, 20E (Pol. Econ, 20)	2

Fourth Year

English 40, 41, 42	3
History 41a, 41b	3
History 42	1
History 43	1

*All courses marked thus are open only to those who have not already elected them.

and any *nine* credits from:—	*Credits*
French 40	3
German 40	3
Greek 40	3
Latin 40	3
Hebrew 40	3
History 44	2
Pol. Economy 40	2
Philosophy 40	2
*French 30	3
*German 30	3
*Greek 30	3
*Latin 30	3
*Pol. Econ. 30	2
*Chemistry 10aS, 10bS (Chemistry 10)	3
*Geology 30aS, 30bS (Geology 30)	3

THE B. A. HONOR COURSES.

Department of Biology.

Requirements for Admission.—Honor Matriculation in four subjects, viz., Latin Mathematics (Algebra, Geometry and Trigonometry), one of French or German, and one of Physics, Biology or Chemistry.

This course satisfies the academic requirements for the Science Specialists's certificate of the Department of Education of Ontario. For conditions see page 34.

First Year	*Hours Per Week*	*Credits*
Library Science 10a	1	½
English 10	2	2
English 12	1	1
French 10 or German 10	3	3
Biology 100a, b	6	4
Chemistry 100	5	3
Geology 100	4	3
Physics 100	5	3
Physical Training 10 or 11 or 12	2	1
Second Year		
English 20	2	2
English 22	1	1
German 20 (Authors only)	2	2
Biology 200a, b	9	6
Chemistry 200	5	3
Geology 200	5	3
Physics 102	5	3
Physical Training 20 or 21 or 22	2	1

*For those who have not already elected them.

Third Year

	Hours Per Week	*Credits*
French, Scientific	1	1
German, Scientific	1	1
Biology 300a, b	9	6
Biology 301a, b	6	4
Biology 302a, b		
Chemistry 300	5	3
Mineralogy 300	5	3
Physics 201	5	3
Chemistry 303a	11	3

Fourth Year

French, Scientific	1	1
German, Scientific	1	1
History 41a, b	3	3
Biology 400	2	2
" 401a, b	6	4
" 402a, b	6	4
" 404	6	4
" 405	6	4

Department of Chemistry.

Requirements for Admission.—Complete Pass Junior Matriculation with Honor Matriculation in Chemistry, Physics and Mathematics, and in one other subject of Honor Matriculation.

NOTE.—If Biology 100a, 100b, 200a and 200b are substituted for Geology 200a, 200b and 300, this course will be accepted by the Ontario Department of Education for the Science Specialists' Certificate.

First Year

	Hours Per Week	*Credits*
English 10	2	2
English 12	1	1
French 10 or German 10	3	3
Library Science 10a	1	½
Mathematics 100	1	1
Mathematics 102	1½	1½
Mathematics 104	1	1
Chemistry 101	2	2
Chemistry 102	6	3
Physics 100	5	3
Physics 101	3	1
Physical Training 10 or 11 or 12	2	1

Second Year

	Hours Per Week	Credits
English 20	2	2
English 22	1	1
French 20 or German 20	3	3
Mathematics 103	1	1
Mathematics 204	2	2
Chemistry 201	2	2
Chemistry 202a	9	4
Chemistry 202b	9	4
Physics 102	5	3
Physics 202	3	1
Physical Training 20 or 21 or 22	2	1

Third Year

Scientific French or German	1	1
Political Economy 20	2	2
Geology 200a and 200b	5	3
Physics 201	5	3
Chemistry 301	2	2
Chemistry 302	6	3
Chemistry 304	4	4

Fourth Year

Scientific French or German	1	1
Economics 30 or 40	2	2
History 40a and 40b	3	3
Geology 300	5	3
Chemistry 400a and 400b	2	2
Chemistry 401	9	4
Chemistry 402	1	1
Chemistry 403	6	3

Department of Classics.

Requirements for Admission.—Complete Pass Junior Matriculation with at least third class Honors (50%) in Honor Matriculation Latin and Greek, English and any other one subject.

This course satisfies the academic requirements for the Classics Specialists' Certificate of the Department of Education of Ontario. For conditions see page 34.

First Year

	Hours Per Week	Credits
Library Science 10a	1	½
English 10	2	2
English 12	1	1
Mathematics 10, 11	3	3
Biology 10a, 10b	5	3
French 10 or German 10 or Hebrew 10	3	3
Physical Training 10 or 11 or 12	2	1
Latin 100	4	4
Greek 100	4	4

Second Year

English 20, 22	3	3
French 20 or German 20 or Hebrew 20	3	3
Physical Training 20 or 21 or 22	2	1
History 100	4	4
Latin 200	5	5
Greek 200	5	5

Third Year

English 30	3	3
History 30	3	3
Philosophy 30a	2	1
Latin 300	6	6
Greek 300	6	6

Fourth Year

History 40	3	3
Latin 400	7	7
Greek 400	7	7

Department of Commercial Economics

Admission Requirements.—Pass Junior Matriculation complete or its equivalent.

A student who has Honor Junior Matriculation in English, Mathematics, one language and one science may reasonably expect to complete this course in three years from first registration.

In order that a student may pass from year to year of this course, third class honor standing (50%) in each of the courses in Economics and Business is demanded.

Each student may take four years of one language (modern) or two languages for two years each. No other combination is permitted.

First Year

English 10, 11, 12	4	4
Mathematics 10, 11	3	3
Public Health 10	1	1

	Hours Per Week	*Credits*
Library Science 10a	1	½
Physical Training 10 or 11 or 12	2	1
One of:		
Latin 10		
Greek 10		
French 10		
German 10		
Italian 100		
Spanish 100	3	3
One of:		
Biology 10a, b		
Physics 10		
Chemistry 10	4	3
Mathematics 15	1	1
Commerce 10	3	3
Second Year		
Philosophy 21	1	1
English 20, 21, 22	4	4
Physical Training 20 or 21 or 22	2	1
One of:		
Latin 20		
Greek 20		
French 20		
German 20		
Spanish 200		
Italian 200	3	3
One of:		
Biology 20a, b		
Physics 20		
Chemistry 20		
Geology 20a, b		
Mathematics 20, 21, 22		
History 20	3 or 4	3
Mathematics 25	1	1
Commerce 20	3	3
Economics 200	2	2
Economics 201a	2	1
Economcis 202b	2	1
Third Year		
English 30	3	3
History 30a, b	3	3

	Hours Per Week	*Credits*
One of:		
French 30		
German 30		
Italian 300		
Spanish 300		
*French 10		
*German 10		
*Italian 100		
*Spanish 100	3	3
One of:		
Biology 30a, b		
Physics 30		
Chemistry 30		
Geology 30a, b		
Mathematics 30	3 or 4	3
Economics 300	2	2
Economics 301	2	2
Commerce 30, 31, 32	3	3

Fourth Year

English 40, 41, 42	3	3
History 40a, b	3	3
History 42	1	1
History 43	1	1
One of:		
French 40		
German 40		
Spanish 400		
Italian 400		
*French 20		
*German 20		
*Spanish 200		
*Italian 200	2	2
Economics 400a	3	1½
Economics 401b	3	1½
Economics 402a	3	1½
Economics 403b	2	1
Economics 404b	2	1
Commerce 40a	2	1
Commerce 41b	2	1
Commerce 42a	2	1
Commerce 43b	2	1

*For those who have not already received credit for them.

Department of English and History.

Requirements for Admission.—Complete Pass Junior Matriculation with Honor Matriculation, at least third class (50%), in English and History and any two other subjects of Honor Matriculation.

This course satisfies the academic requirements in English and History for the Specialists' Certificate of the Department of Education of Ontario, except that for this purpose Hebrew may not be chosen as one of the minor honor subjects. French 10 must be elected by those who do not choose French as an honor subject, and Latin 10 by those who do not choose Latin as an honor subject. For conditions see page 34.

First Year	*Hours Per Week*	*Credits*
Library Science 10a	1	½
Physical Training 10 or 11 or 12	2	1
Mathematics 10, 11	3	3
Biology 10a, 10b, or Chemistry 10 or Physics 10,	5	3
Or, of French 10, German 10, Greek 10, Hebrew 10, Latin 10, Spanish 10, one of the languages not chosen as an honor option	3	3
English 100	4	4
History100	4	4
Any two of:		
French 100	3	3
German 100 or Spanish 100	3	3
Greek 100	4	4
Latin 100	4	4
Hebrew 100	4	4
Second Year		
Physical Training 20 or 21 or 22	2	1
Political Economy 20, Philosophy 21	3	3
Or, of French 20, German 20, Greek 20, Hebrew 20, Latin 20, Spanish 20, the pass language elected in the first year	3	3
English 200, 201, 202	4	4
History 200	3	3
Any two of:		
French 200	3	3
German 200 or Spanish 200	3	3
Greek 200	5	5
Latin 200	5	5
Hebrew 200	4	4
Third Year		
Political Economy 20 or 30	2	2
History 42a	2	1
English 300, 301	6	6

	Hours Per Week	Credits
History 300, 301	4	4
Any one of:		
French 300	3	3
German 300 or Spanish 300	3	3
Greek 301	3	3
Latin 301	3	3
Hebrew 300	4	4

Fourth Year

History 43b	2	1
English 400, 401, 402, 403	8	8
History 400, 401, 404	6	6
One of:		
French 400	3	3
German 400	3	3
Greek 401	3	3
Latin 401	3	3
Hebrew 400	4	4
Spanish 400	3	3

Department of English and French.

Requirements for Admission.—Honor matriculation or the equivalent in English French, German, and 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 French. For conditions see page 34.

First Year

Library Science 10a	1	½
Latin 10	3	3
Mathematics 10, 11	3	3
Biology 10a, 10b, or Physics 10 or Chemistry 10.	5	3
Physical Training 10 or 11 or 12	2	1
French 100	3	3
English 100	4	4
German 100 or Spanish 100	3	3

Second Year

Latin 20	3	3
Physical Training 20 or 21 or 22	2	1
French 200	3	3
German 200 or Spanish 200	3	3
English 200, 201, 202	4	4
History 200	3	3

Third Year	Hours Per Week	Credits
French 301	1	1
French 300	3	3
German 300 or Spanish 300	3	3
English 300, 301	6	6
History 300, 301	4	4
Fourth Year		
French 400	3	3
English 400, 401, 402, 403	8	8
History 400, 401, 404	6	6

Department of English and German or Spanish.

Requirements for Admission.—Honor matriculation or the equivalent in English, French, German, and 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 34.

First Year		
Library Science 10a	1	½
Latin 10	3	3
Mathematics 10, 11	3	3
Biology 10a, 10b, or Physics 10 or Chemistry 10	5	3
Physical Training 10 or 11 or 12	2	1
German 100 or Spanish 100	3	3
English 100	4	4
French 100	3	3
Second Year		
Latin 20	3	3
Physical Training 20 or 21 or 22	2	1
French 200	3	3
German 200 or Spanish 200	3	3
English 200, 201	4	4
History 200	3	3
Third Year		
French 300	3	3
German 300 or Spanish 300	3	3
English 300, 301	6	6
History 300, 301	4	4
Fourth Year		
German 400 or Spanish 400	3	3
English 400, 401, 402, 403	8	8
History 400, 401, 404	6	6

English and Latin

Admission Requirements.—Complete Pass Junior Matriculation with Honor Matriculation (at least 50%) in English, Latin and any two other subjects of Honor Matriculation.

First Year	*Hours Per Week*	*Credits*
Mathematics 10, 11	3	3
Biology 10a, b or Chemistry 10 or Physics 10	5	3
Physical Training 10 or 11 or 12	2	1
Library Science 10a	1	½
French 10 or German 10	3	3
Greek 1	3	3
English 100	4	4
Latin 100	4	4

Second Year

French 20 or German 20	3	3
Physical Training 20 or 21 or 22	2	1
History 20	3	3
Greek 10	3	3
English 200, 201, 202	4	4
Latin 200	5	5

Third Year

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

Fourth Year

History 40	3	3
English 400, 401, 402, 403	8	8
Latin 400	8	8

Department of French and German or Spanish.

Requirements for Admission.—Complete Pass Junior Matriculation with Honor Matriculation in four subjects, three of which shall be English, French and German, with an average in these of third class Honors (50%).

This course is accepted by the Department of Education of Ontario as academic qualification for a Specialist's Certificate in French and German or Spanish. For conditions see page 34.

First Year	*Hours Per Week*	*Credits*
Library Science 10a	1	½
Latin 10	3	3
Mathematics 10, 11	3	3
Physical Training 10 or 11 or 12	2	1
English 100	4	4
French 100	3	3
German 100 or Spanish 100	3	3
Second Year		
Latin 20	3	3
History 30a, 30b	3	3
Physical Training 20 or 21 or 22	2	1
English 200, 201, 202	4	4
French 200	3	3
German 200 or Spanish 200	3	3
Third Year		
History 40a, 40b	3	3
Philosophy 30	2	2
French 300	3	3
French 301	1	1
German 300 or Spanish 300	3	3
English 300, 301	6	6
Fourth Year		
French 400	3	3
German 400 or Spanish 400	3	3
German 401	1	1
English 400, 401, 402, 403	8	8

Department of Latin and French

Requirements for Admission.—Complete Pass Junior Matriculation with Honor Matriculation (at least 50%) in four subjects three of which shall be Latin, French, English.

First Year	*Hours Per Week*	*Credits*
Mathematics 10, 11	3	3
Biology 10a, b or Physics 10 or Chem. 10	5	3
Library Science 10a	1	½
Physical Training 10 or 11 or 12	2	1
German 10 or Greek 1	3	3
English 20, 22	3	3
Latin 100	4	4
French 100	3	3

Second Year

Physical Training 20 or 21 or 22	2	1
History 20	3	3
German 20 or Greek 10	3	3
English 30	3	3
Latin 200	5	5
French 200	3	3

Third Year

History 30	3	3
Philosophy 30	2	2
German 30 or Greek 20	3	3
French 300, 301	4	4
Latin 300	7	7

Fourth Year

History 40	3	3
English 40	3	3
French 400, 401	4	4
Latin 400	8	8

Department of Geology.

Requirements for Admission.—Junior Pass Matriculation with Honors in Latin, Mathematics (Algebra, Geometry and Trigonometry); either German or French, one Science (Physics, Biology or Chemistry).

This course satisfies the academic requirements for the Science Specialists' Certificate of the Department of Education of Ontario. For conditions see page 34.

First Year	*Hours Per Week*	*Credits*
English 10	2	2
English 12	1	1
Library Science 10a	1	½
French 10 or German 10	3	3
Chemistry 100	5	3
Physics 100	5	3
Biology 100a, b	6	4
Geology 100	4	3
Second Year		
English 20	2	2
English 22	1	1
German 20 (Authors only)	2	2
Chemistry 200	5	3
Physics 102	5	3
Biology 200a, 200b	9	6
Geology 200a, 200b	5	3
Third Year		
French 35	1	1
German 35	1	1
Biology 300a, 300b	9	6
Physics 201	5	3
Geology 35	3	3
Geology 300	5	3
Geology 301	3	2
Geology 302	3	3
Geology 303	2	2
Fourth Year		
French 45	1	1
German 45	1	1
History 40a, 40b	3	3
Biology 400	2	2
Geology 400	20	12

Department of Mathematics and Physics.

Requirements for Admission.—Complete Pass Junior Matriculation with Honor Matriculation in Physics and Mathematics, and in any other two subjects of Honor Matriculation.

This course leads to the Mathematics and Physics Specialist's Certificate of the Department of Education of Ontario. For conditions see page 34.

First Year

	Hours Per Week	*Credits*
Library 10a	1	½
English 10	2	2
English 12	1	1
Physical Training 10 or 11 or 12	2	1
Latin 10	3	3
Any one of:		
French 10	3	3
German 10	3	3
Spanish 100	3	3
Physics 101	3	1
Physics 102	5	3
Mathematics 100	1	1
Mathematics 101	1½	1½
Mathematics 102	1½	1½
Mathematics 103	1	1
Mathematics 104	1	1

Second Year

English 20	2	2
English 22	1	1
Biology 10a, 10b or Chemistry 10	5	3
Physical Training 20 or 21 or 22	2	1
Physics 200	2	2
Physics 201, 202	5	3
Mathematics 200	2	2
Mathematics 201	1	1
Mathematics 202	1	1
Mathematics 203	1	1
Mathematics 204	2	2

Third Year

Candidates will take either Group I or Group II. If they wish to specialize in Mathematics they will take Group I, if in Physics, Group II.

GROUP I.

History 30a, b	3	3
English 30	3	3

	Hours Per Week	*Credits*
Physics 300	5	3
Physics 303	6	3
Physics 304	1	1
Mathematics 300	1	1
Mathematics 301	1	1
Mathematics 302	2	2
Mathematics 303	1	1
Mathematics 304	1	1

GROUP II.

History 30a, b	3	3
English 30	3	3
Mathematics 303	1	1
Mathematics 304	1	1
Physics 300	5	3
Physics 301	2	2
Physics 302	1	1
Physics 303	6	3
Physics 304	1	1

Fourth Year

Candidates will take either Group I or Group II. If they wish to specialize in Mathematics they will take Group I, if in Physics, Group II.

GROUP I.

History 40a, b	3	3
English 40, 41, 42	3	3
Physics 400	2	2
Physics 402	2	2
Mathematics 402	1	1
Mathematics 400a	1	½
Mathematics 400b	2	2
Mathematics 401	2	2
Mathematics 403a	1	½

GROUP II.

History 40a, b	3	3
English 40, 41, 42	3	3
Mathematics 400b	2	2
Physics 400	2	2
Physics 401	8	5
Physics 402	2	2

Department of Philosophy.

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

First Year

See section 36, page 28.

Second Year

	Hours Per Week	*Credits*
English 20	2	2
English 22	1	1
Latin 20	3	3
Religious Knowledge	1	1
Physical Training 20 or 21 or 22	2	1
Philosophy 200	3	3
Philosophy 220	2	2
Philosophy 230	2	2
Six credits from:		
History 20	3	3
Mathematics 20, 21, 22	3	3
French 20	3	3
German 20	3	3
Greek 20	3	3
1 Science 20	5	3

Third Year

English 30	3	3
Philosophy 300	3	3
Philosophy 320	3	3
Philosophy 330	2	2
Six credits from:		
French 30	3	3
Greek 30	3	3
German 30	3	3
History 30	3	3
Latin 30	3	3
Religious Knowledge	3	3
1 Science 30	5	3
Political Economy 20	2	2

Fourth Year

English 40, 41, 42	3	3
Philosophy 400	3	3
Philosophy 410	2	2
Philosophy 420	3	3
Philosophy 430	3	3
Six credits from:		
French 40	3	3
Latin 40	3	3
Greek 40	3	3
German 40	3	3

	Hours Per Week	Credits
History 40	3	3
Religious Knowledge	3	3
Political Economy 30 or 40	2	2
1 Science 40	5	3

Department of Physics.

See Department of Mathematics and Physics, pages 53–54.

Department of Political Science.

First Year

See section 36, page 28.

Second Year

English 20	2	2
English 22	1	1
Philosophy 21	1	1
Physical Training 20 or 21 or 22	2	1
Political Economy 200, 201, 202	4	4
History 200	3	3
Any two of:		
French 20	3	3
German 20	3	3
Latin 20	3	3
Greek 20	3	3
Hebrew 20	3	3
Chemistry 20	5	3

Third Year

English 30	3	3
History 42, 43	2	2
Political Economy 300, 301	4	4
History 300a, b, 301	4	4
Government and Law 305, 306, 307	3	3
Any one of:		
French 30	3	3
German 30	3	3
Latin 30	3	3
Greek 30 or 40	3	3
Hebrew 30	3	3

Fourth Year

English 40, 41, 42	3	3
Political Economy 400, 401, 402	4½	4½

	Hours Per Week	Credits
Political Economy 403, 404	2	2
History 400, 401, 404	6	6
Government and Law 405, 406, 407, 408	4	4

Department of Romance Languages.

Requirements for Admission.—Complete Pass Junior Matriculation with Honor Matriculation in any four subjects other than the Sciences.

Under the conditions specified on page 34 this course satisfies the academic requirements for the French and Spanish Specialist's Certificate of the Department of Education.

First Year

Latin 10	3	3
Mathematics 10, 11	3	3
English 10, 12	3	3
Library Science 10a	1	½
Biology 10a, b, or Chemistry 10, or Physics 10	5	3
Physical Training 10 or 11 or 12	2	1
French 100	3	3
Italian 100	3	3
Spanish 100	3	3

Second Year

Latin 20	3	3
English 20	2	2
English 22	1	1
Physical Training 20 or 21 or 22	2	1
History 30a, 30b	3	3
French 200	3	3
Spanish 200	3	3
Italian 200	3	3

Third Year

Latin 30	3	3
History 40a, 40b	3	3
Philosophy 31	1	1
Philosophy 30	2	2
French 300	3	3
Spanish 300	3	3
Italian 300	3	3

Fourth Year

Latin 40	3	3
History 42, 43	2	2
Philosophy 40	2	2

	Hours Per Week	Credits
French 400	3	3
French 301	1	1
Italian 400	3	3
Spanish 400	3	3

Department of General Science.

Requirements for Admission.—Complete Pass Junior Matriculation and Honor Matriculation in Mathematics, Latin; one of French, German; one of Physics, Biology, Chemistry.

This course qualifies for the Science Specialist's Certificate of the Ontario Department of Education. For conditions see page 34.

First Year

Latin 10	3	3
English 10	2	2
English 12	1	1
French 10 or German 10	3	3
Library Science 10a	1	½
Mathematics 10, 21, 22	4	4
Physical Training 10 or 11 or 12	2	1
Biology 100a, 100b	6	4
Chemistry 100	5	3
Physics 100	5	3

Second Year

English 20	2	2
English 22	1	1
French 20 or German 20 (Authors only)	2	2
Mathematics 102, 104	3	3
Geology100	4	3
Physical Training 20 or 21 or 22	2	1
Biology 200a, 200b	9	6
Chemistry 200	5	3
Physics 102; 200	5	3

Third Year

History 30a, 30b	3	3
Geology 300	5	3
Biology 300a, 300b	9	6
Chemistry 300	5	3
Physics 200, 305	4	4

Fourth Year

	Hours Per Week	*Credits*
History 40a, 40b	3	3
Mineralogy 400	5	3
Biology 400, 400a and b, or 401a and b, or 402a and b	8	5½
Chemistry 400	6	3
Physics 401, 403	13	8

THE B.A., M.D. COURSE

Admission Requirements.—Complete Pass Junior Matriculation.

In order to obtain the degree of B.A. at the end of the fourth year of this course, each student must obtain 50% on each Honor Science subject, and an average of at least 60% on the sciences combined of each year.

First Year

English 10, 11, 12	4	4
Physical Training 10, 11 or 12	2	1
Mathematics 10, 11	3	3
Library Science 10a	1	½
Physics 100	5	3
Biology 100a, b	5	3
Geology 100	5	3
French 10 or German 10	3	3

Second Year

English 20, 22	3	3
Economics 20	2	2
Biology 200a, b	6	6
Chemistry 200	5	3
Physics 102	5	3
Physical Training 20, 21 or 22	2	1
French 20 or German 20	3	3

Third Year

English 30, 40, 41, 42	6	6
History 30	3	3
Economics 30 or Philosophy 30	2	2
Biology 300a, b	10	6
Chemistry 200	5	3

Fourth Year

Second Year of the Six-Year Medical Course.

DESCRIPTION OF COURSES

Department of Biology.

PROFESSOR ROBERTSON and ASSOCIATE PROFESSOR HART, assisted by Professors McKibben and Miller of the Faculty of the Medical School.

Students taking courses in this department will be required to make a deposit of five 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 year.

10a **Introductory Zoology** for General Course students; a course dealing with the general principles of Zoology.

2 lectures and 3 laboratory hours per week; 1½ credits.

Prerequisite: Junior Matriculation.

PROFESSOR ROBERTSON.

Text-books: Shull, *Principles of Animal Biology.*
Linville and Kelly, *Text-book in General Zoology.*

References: Hegner, *College Zoology.*
Holmes, *Biology of the Frog.*
Huxley, *The Study of Zoology.*
Needham, *General Biology.*

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

2 lectures and 3 laboratory hours per week; 1½ credits.

Prerequisite: Junior Matriculation.

PROFESSOR HART.

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

References: Kerner and Oliver, *Natural History of Plants.*
Gager, *Fundamentals of Botany.*
Cavers, *Plant Biology.*

11a **General Biology** for Medical students, a course of lectures and laboratory work dealing with the fundamental principles of Botany and Zoology.

3 lectures and 6 laboratory hours per week.

Text-books: Shull, *Principles of Animal Biology.*
Parker and Parker, *Elementary Pratical Zoology.*
Bergen and Caldwell, *Introduction to Botany.*

References: Parker and Haswell, *Text-book of Zoology.*
Hegner, *College Zoology.*
Holmes, *Biology of the Frog.*
Huxley, *The Study of Zoology.*
McFarland, *Biology, General and Medical.*
Kerner and Oliver, *Natural History of Plants.*
Gager, *Fundamentals of Botany.*
Cavers, *Plant Biology.*

Students entering this course will be required to provide themselves with suitable microscopes.

11b **Comparative Anatomy** for Medical students, a course of lectures and laboratory work dealing with the morphology and phylogeny of the Chordates.

3 lectures and 6 laboratory hours per week.

Text-books: Bensley, *Anatomy of the Rabbit.*
Kingsley, *Comparative Anatomy of the Vertebrates.*
References: Wilder, *History of the Human Body.*
Wiedersheim, *Comparative Anatomy of Vertebrates.*
Newman, *Vertebrate Zoology.*
Walter, *The Human Skeleton.*

20a **Phanerogamic Botany** for General Course students; a course dealing with selected types of the Phanerogams.

2 lectures and 3 laboratory hours per week; 1½ credits.
Prerequisite: Biology 10b.

PROFESSOR HART.

Text-book: Coulter, Barnes and Cowles, *Text-book of Botany.*
References: Coulter, *Morphology of Gymnosperms.*
Morphology of Angiosperms.
Jeffrey, *Anatomy Woody Plants.*
Strasburger, *Text-book of Botany.*

20b **Vertebrate Zoology** for General Course students; a course dealing with selected types of the Vertebrates.

2 lectures and 3 laboratory hours per week; 1½ credits.
Prerequisite: Biology 10a.

PROFESSOR ROBERTSON.

Text-books: Kingsley, *Comparative Anatomy.*
Pratt, *Vertebrate Zoology.*
References: Wilder, *History of the Human Body.*
Newman, *Vertebrate Zoology.*
Wiedersheim, *Comparative Anatomy.*

30a **Invertebrate Zoology** for General Course students; a course dealing with selected types of the Invertebrates.

2 lectures and 3 laboratory hours per week; 1½ credits.
Prerequisite: Biology 20b.

PROFESSOR ROBERTSON.

Text-books: Parker and Haswell, *Text-book of Zoology,* Vol. I.
Pratt, *Invertebrate Zoology.*
References: Hegner, *Text-book of Zoology.*
Shipley and McBride, *Zoology.*
Kellogg and Doane, *Economic Zoology.*

30b **Cryptogamic Botany** for General Course students; a course dealing with selected types of the Cryptogams.

2 lectures and 3 laboratory hours per week; 1½ credits.
Prerequisite: Biology 20a.

PROFESSOR HART.

Text-book: Coulter, Barnes and Cowles, *Text-book of Botany.*
References: Strasburger, *Text-book of Botany.*
Duggar, *Fungous Diseases of Plants.*
Conn, *Bacteria, Yeasts and Molds in the Home.*

40a **Canadian Botany** for General Course students; a course dealing with the classification, ecology and economic importance of Canadian plants.

2 lectures and 3 laboratory hours per week; 1½ credits.
Prerequisite: Biology 30b.

PROFESSOR HART

Text-books: Robinson and Fernald, *Gray's New Manual of Botany.*

References: Sargent, *Plants and Their Uses.*
Kraemer, *Applied and Economic Botany.*
Brown, *Forest Products, Their Manufacture and Use.*
Marshall, *The Mushroom Book.*
Duggar, *Fungous Diseases of Plants.*

40b **Canadian Zoology** for General Course students; a course dealing with the classification, ecology and economic importance of Canadian animals.

2 lectures and 3 laboratory hours per week: 1½ credits.

Prerequisite: Biology 30b.

PROFESSOR ROBERTSON.

Text-book: Jordan, *Manual of the Vertebrates.*
Kellogg and Doane, *Economic Zoology.*

References: Seton, *Life-Histories of Northern Animals.*
Shelford, *Animal Communities in Temperate America.*

41a **Botanical Collection** for General Course students; before entering on course 40a students shall make a collection twenty-five Phanerogams and twenty-five Cryptogams. A maximum of 1 credit will be allowed for a superior collection.

41b **Zoological Collection** for General Course students; before entering on course 40b students shall make a collection of at least twenty-five Vertebrates and twenty-five Invertebrates. A maximum of 1 credit will be allowed for a superior collection.

For further particulars concerning courses 41a and 41b consult the Head of the Department.

Honor Courses

100a **Elementary Zoology** for Honor Biology, Honor Science and B.A., M.D., students; a course dealing with the general principles of Zoology, illustrated by selections from the whole animal kingdom.

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

Prerequisites: Full entrance requirements for the Honor Biology, the Honor Science or the B.A., M.D., course.

PROFESSOR ROBERTSON.

Text-books: Shull, *Principles of Animal Biology.*
Parker and Parker, *Elementary Practical Zoology.*

References: Parker and Haswell, *Text-book of Zoology.*
Holmes, *Biology of the Frog.*
Ecker, *Anatomy of the Frog.*
Huxley, *The Study of Zoology.*
Needham, *General Zoology.*
McFarland, *Biology General and Medical.*

100b **Elementary Botany** for Honor Biology, Honor 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 Honor Biology, the Honor Science or the B.A., M.D. course.

PROFESSOR HART.

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.*
Goebel, *Outlines of Classification and Morphology, Organography of Plants.*
Strasburger, *Text-book of Botany.*

200a **Phanerogamic Botany** for students in the Honor Biology and Honor Science courses; a course dealing with the evolution, external morphology and anatomy of the Spermatophyta.

3 lectures and 6 laboratory hours per week; 3 credits.
Prerequisite: Biology 100b.

PROFESSOR HART.

Text-book: Coulter, Barnes and Cowles, *Text-book of Botany.*
References: Coulter, *Morphology of Angiosperms.*
Morphology of Gymnosperms.
Jeffrey, *Anatomy of Woody Plants.*
Chamberlain, *Living Cycads.*
Strasburger, *Text-book of Botany.*
Goebel, *Organography of Plants.*

200b **Vertebrate Zoology** for students in the Honor Biology, Honor Science and the B.A., M.D. courses; a course dealing with the structure and evolution of the Vertebrates.

3 lectures and 6 laboratory hours per week; 3 credits.
Prerequisite: Biology 100a.

PROFESSOR ROBERTSON.

Text-books: Kingsley, *Comparative Anatomy of the Vertebrates.*
Bensley, *Anatomy of the Rabbit.*
Parker, *Zootomy.*
References: Wilder, *History of the Human Body.*
Wiley, *Amphioxus.*
Newman, *Vertebrate Zoology.*
Wiedersheim, *Comparative Anatomy.*
Reynolds, *The Veriebrate Skeleton.*
Walter, *The Human Skeleton.*

300a **Invertebrate Zoology** for Honor Biology, Honor Science and B.A., M.D. students; a course dealing with the structure and evolution of the Invertebrates.

3 lectures and 6 laboratory hours per week; 3 credits.
Prerequisites: Biology 200b.

PROFESSOR ROBERTSON.

Text-books: Parker and Haswell, *Text-book of Zoology,* Vol I.
Petrunkevitch, *Morphology of Invertebrate Types.*
References: Shipley and McBride, *Zoology.*
Riley and Johannsen, *Medical Entomology.*
Doane, *Insects and Disease.*
Packard, *Text-book of Entomology.*
Minchin, *Protozoa.*
Theobald, *Animal Parasites of Man.*
Lancaster, *Treatise of Zoology.*

300b **Cryptogamic Botany** for students in Honor Biology, and Honor Science; a course dealing the structure and evolution of the Cryptogams.

3 lectures and 6 laboratory hours per week; 3 credits.

Prerequisite: Biology 200a.

PROFESSOR HART.

Text-books: Coulter, Barnes and Cowles, *Text-book of Botany.*
Strasburger, *Text-book of Botany.*

References: Campbell, *Mosses and Ferns.*
Bower, *Origin of a Land Flora.*
Duggar, *Fungous Diseases of Plants.*
Jordan, *General Bacteriology.*

301a **Canadian Phanerogamic Botany** for Honor Biology and Honor Science students; a course dealing with the classification, ecology and economic importance of Canadian Phanerogams.

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

Prerequisite: Biology 200a.

PROFESSOR HART.

Text-book: Gray, *New Manual of Botany.*

References: Britton and Brown, *Illustrated Flora.*
Bailey, *Cyclopedia of Horticulture.*
Brown, *Forest Products, Their Manufacture and Use.*
Kraemer, *Applied and Economic Botany.*
Winton, *Microscopy of Vegetable Foods.*
Hanausek, *Microscopy of Technical Products.*
Sargent, *Plants and Their Uses.*
Bulletins of the Departments of Agriculture and Forestry.

301b **Canadian Vertebrate Zoology** for Honor Biology students; a course dealing with the classification, ecology and economic importance of Canadian Vertebrates.

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

Prerequisite: Biology 200b.

PROFESSOR ROBERTSON.

Text-book: Jordan, *Manual of the Vertebrates.*

References: Ward and Whipple, *Fresh-water Biology.*
Nash, *Manual Vertebrates of Ontario.*
Shelford, *Animal Communities of Temperate America.*
Seton, *Life-Histories of Northern Animals.*
Ditmar, *The Reptile Book.*
Jordan and Evermann, *Fishes of North and Central America.*
Ridgeway, *Birds of North and Central America.*
Dickerson, *Frog Book.*
Chapman, *Birds of Eastern North America.*

302a **Phanerogamic Collection** for students in Honor Biology and Honor Science; before entering on course 301a 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.

Text-book: Gray, *New Manual of Botany.*

302b **Vertebrate Collection** for students in Honor Biology and Honor Science; before entering on course 301b students shall make a collection of at least fifty vertebrates. Particulars on application to Head of Department. A maximum of 2 credits.

Text-book: Jordan, ***Manual of the Vertebrates.***

305a **Cytology, Histology, Organology:** lectures, quizzes and laboratory work given during the first term.

9 hours per week.

Prerequisites: completion of second year science of the B.A., M.D. or of the Honor Biology course.

305b **Vertebrate Embryology;** study of chick and pig material, gross and in serial sections.

9 hours per week for 8 weeks, second term.

Prerequisite: Biology 305a.

400 **History and Theory of Biology** for students in the Honor or General Courses; dealing with the history, theory and problems of Biology.

2 lectures per week; 2 credits.

Prerequisites: Biology 30a and 30b or 300a and 300b.

PROFESSOR ROBERTSON.

Textbooks: Locy, *Biology and Its Makers.*
Conklin, *Heredity and Environment.*
Kellogg, *Darwinism To-day.*

References: Davenport, *Experimental Morphology.*
Child, *Senescence and Rejuvenescence.*
Morgan, *Regeneration.*
Jennings, *Behavior of Lower Organisms.*
Holmes, *Evolution Animal Intelligence.*
Weissmann, *The Evolution Theory.*
Darwin, *Origin of Species.*
Lamarck, *Philosophie Zoologique.*
Thomson, *Heredity.*
deVries *The Mutation Theory.*
Osborn, *From Greeks to Darwin.*

401a **Plant Physiology** for students in the Honor Biology and Honor Science Courses; a course dealing with the physiology of plants.

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

Prerequisite: Biology 300b, or Biology 301b.

PROFESSOR HART.

References: Jost, *Plant Physiology.*
Pfeffer, *Physiology of Plants.*
Schimper, *Plant Geology.*
Palladin, *Plant Physiology.*
Reports of special investigations.

401b **Experimental Zoology** for students in the Honor Biology and Honor Science Courses; a course dealing with tropisms, growth, physiology, regeneration, animal mind, etc.

2 lectures and 4 laboratory hours per week.

Prerequisites: Biology 300a.

References: Davenport, *Experimental Morphology.*
Morgan, *Regeneration.*
Jennings, *Behavior of Lower Organisms.*
Holmes, *Evolution of Animal Intelligence.*
Studies in Animal Behavior.
Loeb, *Tropisms and Forced Movements in Animals.*

402a **Canadian Invertebrate Zoology** for Honor Biology students; a course dealing with the classification, ecology and economic importance of Canadian invertebrates.

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

Prerequisites: Biology 300a.

Text-book: Ward and Whipple, *Fresh-water Biology.*

References: Holland, *The Butterfly Book.*
The Moth Book.
Howard, *The Insect Book.*
Shelford, *Animal Communities in Temperate America.*
Doane, *Insects and Disease.*
Kellogg and Doane, *Economic Zoology.*

402b **Canadian Cryptogamic Botany** for Honor Biology students; a course dealing with the classification, ecology and economic importance of Canadian cryptogams.

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

Prerequisites: Biology 300b.

References: Duggar, *Fungous Diseases of Plants.*
Marshall, *The Mushroom Book.*
Conn, *Bacteria, Yeasts and Molds.*
Bulletins Departments of Agriculture.
See also lists under 403b.

403a **Invertebrate Collection** for students in Honor Biology; before entering on Biology 402a students shall make a collection of at least fifty invertebrates from selected groups. Consult the Head of the Department for further particulars.

Text-book: Ward and Whipple, *Fresh-water Biology.*

References: Apply for references and texts for the special groups.

403b **Cryptogamic Collection** for students in Honor Biology; before entering on Biology 402b students shall make collections of at least fifty cryptogams from selected groups. Consult the head of the Department for further particulars.

References: Gray, *New Manual of Botany.*
Grout, *Mosses.*
Marshall, *Mushrooms and Lichens.*
Atkinson, *Mushrooms and Toadstools.*
Tilden, *Minnesota Algae.*
Collins, *Fresh-water Algae North America.*
Lister, *Mycetozoa.*

404 **Histology** for Honor Biology students; a course dealing with the Histology of Animals.

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

Prerequisites: Biology 300a.

Text-book: Schafer, *Essentials of Histology.*

References: Schafer, *Text-book Microscopic Anatomy.*
Bohm, Davidoff, *Text-book Histology.*
Piersol, *Normal Histology.*

Dahlgren and Kepner, *Principles of Animal Histology.*
Schneider, *Histologie der Thiere.*
Gurwitsch, *Morphologie und Biologie der Zelle.*
Prenant, Bouin et Maillard, *Traite d'Histologie.*

405 **Embryology** for Honor Biology students; a course dealing with Animal Embryology.

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

Prerequisite: Biology 300a.

Text-book: Prentiss and Arey, *Text-book Embryology.*
References: Bailey and Miller, *Text-book Embryology.*
Kellicott, *Chordate Development.*
Text-book General Embryology.
Jenkinson, *Experimental Embryology.*
Nelson, *Embryology Honey Bee.*

406 **Animal Physiology** for B.A., M.D., students; lectures, demonstrations and quizzes on the physiology of the blood, muscle and nerve, the circulation, respiration, lymph and digestion; a laboratory course on the physiology of the blood, muscle and nerve, the circulation and respiration.

3 lectures and 6 laboratory hours, first term; 6 credits.

3 lectures and 3 laboratory hours, second term; 4½ credits.

Prerequisites: Biology 300a.

Department of Chemistry

A. J. SLACK,	Professor
E. G. STURDEVANT,	Associate Professor
S. N. BEST,	Associate Professor
H. D. JACKSON,	Lecturer and Instructor
MISS M. MCLEAN,	Assistant
MISS G. ROWNTREE,	Assistant

10 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.

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

Text-book: Alexander Smith, *General Chemistry for Colleges.*

20 **Qualitative and Quantitative Analysis;** optional for second year students in the General Course. This is 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. Lectures bearing upon laboratory technique and new methods of analysis are given as required.

5 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.*

21 **Qualitative and Quantitative Analysis:** for second year students in the Honor course in Biology. The content of the course is practically the same as that of Chemistry 20.

6 laboratory hours per week; 3 credits.

Prerequisite: Chemistry 10.

Text-books: See Chemistry 20.

22 **Organic Chemistry;** prescribed for second year students in the Honor course in Biology. A course of lectures and demonstrations on the fatty and aromatic hydrocarbons and their derivatives; the carbohydrates; proteins and alkaloids. Laboratory work consists of the preparation, identification and estimation of the simpler organic compounds, organic acids, alkaloids, etc.

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

Prerequisites: Chemistry 10 and 20.

Text-book: Perkin and Kipping, *Organic Chemistry.*

30 **Organic Chemistry;** optional for third year students in the General Course. For a description of the contents of the course see Chemistry 22.

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

Prerequisites: Chemistry 10 and 20.

Text-book: Perkin and Kipping, *Organic Chemistry.*

40 A course of lectures upon **Physical Chemistry** with advanced laboratory work in Quantitative Analysis and Physico-Chemical Measurements. Optional for fourth year students in the General Course.

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

Prerequisites: Chemistry 10, 20, 30.

Text-books: Treadwell and Hall, *Quantitative Analysis.*
Lincoln, *Physical Chemistry.*
Findlay, *Practical Physical Chemistry.*

Honor Courses

100 **Inorganic Chemistry;** an advanced course of experimental lectures in General Chemistry with a laboratory course on General Chemistry and Qualitative Analysis.

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

Prerequisites: Chemistry 10 or Honor Matriculation or Faculty Entrance Chemistry.

101 Lecture course only in Advanced Inorganic Chemistry with Chemistry 100.

2 lectures per week; 2 credits.

102 **Laboratory Course**—Advanced Inorganic Chemistry and Qualitative Analysis.

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

200 **Organic Chemistry;** 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.

201 **Organic Chemistry**—lectures only with Chemistry 200.

2 lectures per week; 2 credits.

202a **Elementary Quantitative Analysis.**

1 lecture and 8 laboratory hours per week during first term; 3 credits.

202b **Advanced Quantitative Analysis.**

1 lecture and 8 laboratory hours per week during second term; 3 credits.

300 **Elementary Physical Chemistry;** laboratory course in Quantitative Analysis during first term; Physico-chemical and Electro-chemical measurements during second term.

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

Prerequisite: Chemistry 200.

301 **Advanced Organic Chemistry.**

2 lectures per week; 2 credits.

302 **Organic Chemistry Laboratory.**

6 hours laboratory per week; 3 credits.

401 Thucydides *III* and *The Sicilian Expedition;* Lysias; Demosthenes, *De Corona;* Aeschines; the literary history of Athens in special reference to prose; special study of the history of the Hellenistic Period. For minor honors in the department of English and History.

3 hours per week; 3 credits.

Prerequisite: Greek 301.

PROFESSOR NEVILLE.

Texts: E. C. Marchant, *Thucydides III* (Macmillan).
P. Frost, *Thucydides VI, VII* (Macmillan).
E. S. Shuckburgh, *Lysiæ Orationes XVI* (Macmillan).
M. V. Humphreys, *Demosthenes, On the Crown* (American).
Gwatkin and Shuckburgh, *Aeschines, In Ctesiphontem* (Macmillan).

Department of Commerce.

10. Elementary Accounting. This course is designed to serve as an introduction to the entire field of accounting, but more especially to the part, that accounting may play as an aid to business administration. For this reason the primary emphasis of the course is placed on the use of the accounting reports, and the methods by which the information needed for the preparation of such reports may be made available. The first half of the course is intended to give the student an understanding of the steps that compose what may be called the accounting process and of that process as a whole. In this part of the course the conventional financial reports, the balance sheet, and the statement of profit and loss are first considered, and from them is developed the need for the ledger account as a means of classifying the information needed for these reports. Some attention is given to the construction and interpretation of particular accounts and the steps necessary in preparing the reports at the end of a period, in adjusting the accounts to show an agreement with the reports, and in "closing" the ledger are taken up. The use of books original entry for recording and classifying data before they are entered in the accounts and their use in transferring such data into the accounts is then discussed and illustrated, and finally, the various types of business paper, or vouchers, arising out of individual transactions are considered in their relation to the records and to the routine of the business. The second half of the course takes up in greater detail the various forms of records which facilitate the recording and analysis of business transactions. This includes discussion and illustration of various types of columnar journals used in recording cash receipts and disbursements, purchases, sales, returns and allowances, and notes, also methods of handling petty cash, and the use of

vouchers register. Further consideration is then given to the construction and interpretation of particular accounts, laying special emphasis on problems of depreciation and maintenance of fixed assets. This is followed by a more detailed treatment of the construction and interpretation of accounting reports, dealing not only with the conventional types referred to above, but with other forms of reports useful to the business manager, and including graphic presentation of business data. Throughout the course the principles considered are developed by means of class discussion and illustrative laboratory exercises. In these exercises the aim is to keep the amount of bookkeeping routine at the lowest point which is consistent with a thorough understanding of the principles involved.

3 hours per week; 3 credits.

MR. WESTERVELT.

20 **Advanced Accounting,** auditing, accounting problems. For all students in second year of Honor course in Commercial Economics.

3 hours per week; 3 credits.

MR. WESTERVELT.

30 **Commercial Law.**
1 hour per week; 1 credit.

31 **Business Organization.**
1 hour per week; 1 credit.

32 **Efficiency.**
1 hour per week; 1 credit.

40a **Principles of Advertising.**
2 hours per week, first term; 1 credit.

41b **Buying and Marketing.**
2 hours per week, second term; 1 credit.

42a **Credits and Collections.**
2 hours per week, first term; 1 credit.

43b **Theory and Practice of Banking.**
2 hours per week, second term; 1 credit.

Department of English

University College of Arts

W. F. TAMBLYN, PH.D.,	Professor
MRS. E. K. ALBRIGHT, B.A.	Instructor
G. M. BROCK, B.A.	Instructor
JEAN I. WALKER	Lecturer

Assumption College

REV. D. L. FORESTELL, B.A., Professor
REV. CHAS. COUGHLIN, B.A., Lecturer

Ursuline College

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

10. Literature.

Ben Jonson, *To the Memory of Shakespeare.*
Milton, *L'Allegro, Il Penseroso, Epitaph on Shakespeare, Sonnets.*
Dryden, *Absalom and Achitophel.*
Pope, *The Rape of the Lock.*
Gray, *Ode on a Distant Prospect of Eton College, Elegy written in a Country Churchyard.*
Blake, *To the Muses, To the Evening Star, Introduction, To the Divine Image.*
Burns, *The Cotter's Saturday Night, Tam O'Shanter.*
Wordsworth, *The Solitary Reaper, She was a Phantom of Delight, Tintern Abbey, Sonnets.*
Coleridge, *The Rime of the Ancient Mariner, Youth and Age.*
Scott, *Harold's Song to Rosabelle, Edmund's Song, Jock of Hazeldean, Rob Roy.*
Shelley, *Skylark, The Cloud.*
Byron, *Don Juan.*
Keats, *The Eve of St. Agnes, To Autumn.*
Thackeray, *Henry Esmond*, Selections.
Tennyson, *Locksley Hall, In Memoriam, Crossing the Bar.*
Browning, *My Last Duchess, Andrea del Sarto.*
Arnold, *Geist's Grave, Self-Dependence.*
Cowper, Selections.
Carlyle, Selections.
Stevenson, Selections.

This course is prescribed for students of the first year in the General Course.

2 hours per week; 2 credits.

PROFESSOR ST. MICHAEL, PROFESSOR FORESTELL, MR. BROCK.

Texts: *Standard English Poems*, Pancoast (Holt).
Selected English Essays (Oxford).

11. Public Speaking: In this course the aim is to show the speaker how to affect a given audience, in a given way, in a given time. The ends of speech such as clearness, belief, impressiveness, action and entertainment are shown as determining the selection and arrangement of material. The

speech is considered objectively in the light of its effect on an audience rather than subjectively. Exercises will be given to test the speaker's ability to gather, select, arrange and present material effectively.

1 hour per week; 1 credit.

MISS WALKER.

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

12. Composition and Rhetoric: fortnightly themes in class and at least four longer essays; lectures, discussions, and assigned readings. Prescribed for all in the first year.

1 hour per week; 1 credit.

PROFESSOR TAMBLYN, MR. BROCK.

20. Shakespeare:—*Romeo and Juliet; Henry IV, parts I and II: King Lear: Twelfth Night.* Selections from Bacon, Swift, Addison, Johnson; selections from Boswell's *Life of Johnson*. Prescribed for all students in the second year of the General Course.

2 hours per week; 2 credits.

PROFESSORS TAMBLYN, ST. MICHAEL AND FORESTELL.

Text-books: *Selected English Essays* (Oxford).
New Hudson Shakespeare (Ginn).
E. A. J. Marsh, *Selections from Boswell's Life of Johnson* (Bell).

21. Literary Interpretation and Practical Reading. A class for the study of the technique of expression; reading of vital literature by the class and instructor. The aim is to develop skill in the vocal interpretation of emotional and imaginative literature, lyric, drama, monologue, etc. Attention will be given to Exactitude of Delivery, Visualization of meaning of Words, Elemental Expressions, Development of Sympathetic Feeling in words and phrases, Human Emotion in words, Word Groups, Pauses and Unity.

1 hour per week; 1 credit.

MISS WALKER.

22. Rhetoric and Composition: fortnightly themes in class and at least four longer essays. Prescribed for all in the second year.

1 hour per week; 1 credit.

MRS. ALBRIGHT.

30. An Outline of Nineteenth Century Literature with a special study of the following:

(a) Poets:

Blake, *Piping down the valleys wild, On Another's Sorrow, The Clod and the Pebble, The Tiger, A Poison Tree,*

Auguries of Innocence, Proverbs, Two Kinds of Riches, The Two Songs, Love's Secret.

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, *The Ancient Mariner, 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.*

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, The Eve of St. Agnes, "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.*

Browning, *The Lost Leader, The Bishop Orders his Tomb, Time's Revenges, Two in the Campagna, Saul, Memorabilia, Popularity, Childe Roland, A Grammarian's Funeral, Rabbi Ben Ezra, Abt Vogler, Confessions, Prospice, Development.*

Arnold, *The Strayed Reveller, The Scholar Gipsy, Morality, Thyrsis, Dover Beach.*

(b) Prose Writers:
Lamb, *Essays.*
Hazlitt, *On Familiar Style.*
Bagehot, *Essays on Shelley; Shakespeare; Wordsworth, Tennyson and Browning.*
Arnold, *The French Play in London.*
Dickens, *Pickwick Papers.*

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.

MRS. ALBRIGHT AND PROFESSOR FORESTELL.

Text-books: *British Poets of the Nineteenth Century* (Sanborn). *Selected English Essays* (Oxford).

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

The Oxford Book of Victorian Verse: Nos. 170, 175, 198, 205, 206, 213, 214, 230, 241, 244, 245, 270, 274-5, 277, 290, 294, 304, 322, 324-7, 329, 399-401, 405, 426, 433-4, 455, 481, 493-4, 499, 508, 526, 544-9, 583-4, 595, 598, 601-2, 616, 623-6, 643-5, 662-3, 666, 670, 674-9, 706-7, 709, 723, 726-7, 730, 738-9, 745-7, 751, 753-65, 770, 771, 776-9.

(These include selections from Browning, Rossetti, Meredith, Arnold, Morris, Stevenson, F. Thompson, Watson, etc.)

Georgian Poetry, 1911-12, pp. 3-72, 87-89, 106-110, 119-127, 193.
Georgian Poetry, 1913-15, 1916-17; a few selections.
Poems of To-day, An Anthology (McClelland and Stewart), selections.
G. K. Chesterton, *The Victorian Age in Literature.*
W. D. Lighthall, *Canadian Poems and Lays* (Scott Publishing Co.), selections.

An Essay will be required from each student during the session on some subject connected with the above course. Prescribed with 41 for all students in the fourth year of the General Course, and of the Honor Courses in English and History and Modern Languages.

1 hour per week; 1 credit.

PROFESSORS TAMBLYN AND FORESTELL.

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

R. L. Stevenson, *Talk and Talkers, Aes Triplex, Lantern-bearers, Pulvis et Umbra, The English Admirals.*
J. Burroughs, *In the Catskills* (ed. C. Johnson).
A. C. Bradley, *Poetry for Poetry's Sake.*
G. L. Dickinson, *Greek Tragedy.*
G. B. Shaw, *Fanny's First Play.*
A. Birrell, *Obiter Dicta* (first series).
H. G. Wells, *Tono-Bungay.*
Prescribed in the General Course and in English Honors.
1 hour per week; 1 credit.

PROFESSORS TAMBLYN AND FORESTELL.

42. A short study of the period culminating in Chaucer; a special study of:
Geoffrey of Monmouth (I-III, IX-X), in translation.
Gottfried von Strassburg, *Tristan and Iseult*, in translation.
Dante, Selections (Temple edition).
Piers Plowman (*Passus I-IV*).
Gummere, *Ballads.*
Perle, Gawain and the Green Knight.
Chaucer, *Balades, Former Age, Parlement of Foules, Troilus and Criseyde V.*
Canterbury Tales (*Prologue, framework, tales of the knight, prioress, Sir Thopas, the nonne preest, pardoner*).

Good modernizations of some of the Middle English writers will be used where available. References will be made also to such writers as Wycliff, Gower, Petrarch, etc. Prescribed for fourth year students in the General Course, for Honor students in the third year.
1 hour per week; 1 credit.

PROFESSORS TAMBLYN AND FORESTELL.

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

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, *Christabel, Kubla Khan.*
Byron, *Vision of Judgment.*
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 Honor English and History course.

2 hours per week; 2 credits.

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

MRS. ALBRIGHT.

200 A study of the following texts:
Spenser, *Faerie Queene V.*
Wordsworth, *Prelude.*
Tennyson, *In Memoriam.*
Browning, *Bishop Blougram's Apology.*
Austen, *Pride and Prejudice.*
Scott, *Old Mortality.*
Thackeray, *Henry Esmond.*
Prescribed with 201 and 202 for second year students in the Honor English and History course.

2 hours a week; 2 credits.

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

MR. BROCK.

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

1 hour per week; 1 credit.
Prerequisite: English 100.

PROFESSOR TAMBLYN.

Textbooks: Bright, *Anglo-Saxon Reader* (Selections II, III, VI, XII, XV, XVI, XX XXI, XXIII).
Emerson, *History of the English Language.*
J. Pearsall Smith, *The English Language.*

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 Honor students throughout the year. Prescribed with 301 for third year students in the Honor English and History and Honor Modern Languages courses.

5 hours per week; 5 credits.

Prerequisites: English 200, 201, 202.

301 **Anglo-Saxon and Historical English Grammar;** a critical study of *Beowulf*, ll. 2603–3058; a general knowledge of the remainder of the poem will be expected, which may be gained from the translation of Hall, Earl, Garnett or Child.

PROFESSOR TAMBLYN.

Text-books: *Beowulf* (Wyatt's Edition).
Sweet, *Historical English Grammar.*

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

2 hours per week; 2 credits.

Prerequisites: English 300, 301.

401 **The Elizabethan Drama;** a critical study of:

Shakespeare, *Midsummer Night's Dream, King John, King Lear, Coriolanus.*

A careful reading of:

Noah's Flood, Sacrifice of Isaac, Secunda Pastorum, Thersytes.

Lyly, *Endymion.*

Greene, *Friar Bacon.*

Kyd, *Spanish Tragedy.*

Marlowe, *Tamburlaine, Part I; Edward II.*

Dekker, *A Shoemaker's Holiday.*

Jonson, *Every Man in his Humour.*

Beaumont and Fletcher, *The Knight of the Burning Pestle.*

Shakespeare, *Richard II, Othello, Antony and Cleopatra.*

2 hours per week; 2 credits.

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, Bks. 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 Holland and North.

2 hours per week; 2 credits.

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,* p. 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.*

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. Authors read in alternate years with authors of Hebrew 30.
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. Authors will be read in alternate years with the authors of Hebrew 20.
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, 110, 121-127; *Ecclesiastes* 12, *Proverbs* 1-4, 8; *Job* 28.
3 hours per week; 3 credits.
Prerequisite: Hebrew 30.

Minor Honor 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; 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, 110, 121-127; *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; 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 of Arts.

A. G. DORLAND, M.A.	Associate Professor
K. P. R. NEVILLE, PH.D.	Professor
F. LANDON, M. A.	Lecturer

Assumption College.

REV. J. J. SHERIDAN, M. A. — Lecturer

Ursuline College.

M. ST. MICHAEL, M. A. — Professor

20 **Ancient Civilizations;** Early Egyptian, Babylonian, Hebrew History; Greece; Rome to 476 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 A.D. 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 A.D. Lectures, prescribed reading and essays.

3 hours per week, second term; 1½ credits.

PROFESSOR DORLAND.

Text-books: Thorndike, *History of Mediaeval Europe.*
Robinson, *Readings in European History, Vol. II.*

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 reading 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, *Reading 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 Charta; the growth of Parliament; the Lancastrian Experiment in Constitutional Government; the development of Constitutional Monarchy.

3 hours per week, first term; 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.*
Hunt-Poole, *Political History of England.*

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: *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.*
Henderson, *Life of Sir George Grey.*
Select Speeches of Sir William Molesworth, edited by Egerton.

44 **History of the United States.** The period down to the Civil War will be covered in the first, and the later period in the second term. Lectures and prescribed readings. Optional for students of the fourth year in the general course.

2 hours per week; 2 credits. MR. LANDON.
Prerequisite: History 30a and 30b.

Text-books: Smith, *The United States.*
Farrand, *Development of the United States.*
Bassett, *Short History of the United States.*

Honor Courses

100 **Ancient History.** A survey of the civilizations of Egypt, Babylonia, and the Nearer Orient, with special emphasis on the contributions they have made to world progress; political and constitutional history of Greece; political and constitutional history of Rome to the fall of the Western Empire.

Lectures, prescribed reading and essays.
4 hours per week; 4 credits.

PROFESSOR NEVILLE.

References: Breasted, *History of the Egyptians.*
Jastrow, *History of the Babylonians and Assyrians.*
Kent, *The History of the Hebrew People.*
Hall, *The Ancient History of the Near East.*

Botsford, *History of Greece.*
Bury, *History of Greece.*
How and Leigh, *History of Rome.*
Botsford, *History of Rome.*
Breasted, *History of Ancient Times.*

200a **Mediaeval History;** 476–1122 A.D. 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.*
Orton, *Outlines of Mediaeval History.*
Gibbon, *Decline and Fall of Roman Empire.*
Milman, *History of Latin Christianity.*
Oman, *The Dark Ages.*
Cambridge Mediaeval History.
Bryce, *Holy Roman Empire.*

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.*

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 18th Century.*
Kitchin, *History of France.*
Young, *Travels in France.*
Lowel, *Eve of the Revolution.*
Fisher, *Napoleon.*
Henderson, *Short History of Germany.*

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.*
King, *Life of Mazzini.*
Von Bulow, *Imperial Germany.*
Marriott, *England since Waterloo.*
Muir, *Expansion of Europe.*
Rose, *Development of Modern European Nations.*

301 **History of Canada** from 1820 to 1867 (omitted in 1921-22).

1 hour per week; 1 credit.

Prerequisite: History 200a and 200b.

MR. LANDON.

References: *Canada and its Provinces, Vol. V.*
Chronicles of Canada, selected parts.
Morrison, *British Supremacy and Canadian Self-Government.*
Dent, *The Last Forty Years.*

400 **British Political Parties.** A reading and lecture course conducted in connected with a weekly seminar. Fourth year honor 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 Conservatism; 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.*

401 **History of Canada Since Confederation.**

1 hour per week; 1 credit.

Prerequisite: History 300a and 300b.

MR. LANDON.

References: *Canada and its Provinces* (selections).
Willison, *Sir Wilfrid Laurier and the Liberal Party.*
Skelton, *Life and Letters of Laurier.*
Bryce, *Short History of the Canadian People.*

404 **History of the United States.** (For details see History 44). Prescribed for students of the fourth year in the Honor course in English and History.

2 hours per week; 2 credits.

MR. LANDON

Department of Law

MR. PERRIN.

500 **Domestic Relations,** Eversley, substituting the Canadian Statutes for the English sections in the Text-book. The parts to be read are: Part I: ch. 1 to 11, (in 10 leave out Statutes and read our Married Womans' 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 II: 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,* 2nd 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

University College of Arts

W. J. PATTERSON, M.A., Professor
ARTHUR WOODS, M.A. Instructor

Assumption College

J. L. QUINLAN, B.A.Sc., Lecturer

10 **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.

1½ hours per week; 1½ credits.

Prerequisites: Pass Junior Matriculation in Mathematics.

MR. WOODS.

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

11 **Geometry:**—A more thorough treatment of the subject as found in the *Ontario High School Geometry, Part I*, together with an elementary treatment of the following: inscribed, escribed and circumscribed circles to a triangle; incentre, mean-centre and orthocentre of a triangle; mean triangle, median triangle, pedal triangle and ex-central triangle; circles determined by points, lines and circles; axes of symmetry, axes of homology; centres of symmetry and centres of homology; radical axis, radical centre; inversion, poles and polars; collinear points concurrent lines; harmonic properties of quads; loci.

1½ hours per week; 1½ credits.

Prerequisites: Pass Matriculation in Mathematics.

PROFESSOR PATTERSON.

Text-book: Hall and Stevens, *A School Geometry, Parts I-VI* (Macmillan).

15 **Business Arithmetic;** decimals, interest, discount, annuities, bond values, mensuration, etc.

1 hour per week; 1 credit.

MR. WESTERVELT.

Text-book: McIntosh and Norman, *New Method Arthimetic.*

20 **Algebra:**—Sums of squares and of cubes of natural numbers, applications; scales of notation; simultaneous quadratic and cubic equations in two and three unknowns; imaginaries; maximum and minimum values of functions; elimination; permutations and combinations; binomial theorem with applications.

1 hour per week; 1 credit.

Prerequisites: Mathematics 10 and 11.

MR. WOODS.

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

21 **Geometry:**—Analytical Geometry of the point, the line and the circle.

1 hour per week; 1 credit.

Prerequisites: Mathematics 10 and 11.

PROFESSOR PATTERSON

Text-book: W. M. Baker, *Algebraic Geometry, Part I* (Geo. Bell).

22 **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 formulæ; logarithms; solution of triangles with derivation of the necessary formulae; radii of inscribed, escribed and circumscribed circles to a triangle; perimeters and areas of inscribed and circumscribed regular polygons to a circle.

1 hour per week; 1 credit.

Prerequisites: Mathematics 10 and 11.

MR. WOODS.

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

25 **Introduction to Statistics.**

This course is intended to familiarize students with the elementary principles of statistics as methods of scientific study and interpretation of economic and social phenomena. The topics considered include the general characteristics of the statistical method, the definition of statistical terms and units, the sources and collection of statistical data, accuracy and approximation, the nature and causes of error, classification, frequency distributions, the several forms of average and their appropriate uses, rates and percentages, index numbers and business barometers, and the tabular and graphic presentation of statistical results. The course concludes with a brief examination of the basis of statistical inference and the statistical criteria of association, cause and effect. The statistical methods discussed in the lectures are applied and tested in laboratory exercises.

1 hour per week; 1 credit.

Prerequisite: Mathematics 10, 11, 15.

30 Any three credits chosen from Mathematics 100–104.
3 hours per week; 3 credits.
Prerequisites: Mathematics 10, 11, 20, 21, 22 or equivalents.

Honor Courses

100 **Algebra.**
1 hour per week; 1 credit.

Prerequisites: Honor Matriculation in Mathematics, or, Mathematics 10, 11, 20, 21, 22.

MR. WOODS.

Text: Hall and Knight, *Higher Algebra*, pp. 187–340.

References: C. Smith, *Treatise on Algebra* (Macmillan).
Chrystal, *Algebra* (Macmillan).

101 Synthetic Plane and Solid Geometry.

1½ hours per week; 1½ credits.
Prerequisites: As for Mathematics 100.

MR. WOODS.

Texts: Dupuis, *Elementary Synthetic Geometry* (Macmillan).
Synthetic Solid Geometry (Macmillan).

102 Analytical Plane Geometry.

1½ hours per week; 1½ credits.
Prerequisites: As for Mathematics 100.

PROFESSOR PATTERSON.

Text-book: Grace and Rosenberg, *Co-ordinate Geometry* (Tutorial Press).

References: C. Smith, *Conic Sections* (Macmillan).
Loney, *Co-ordinate Geometry* (Macmillan).

103 Trigonometry.

1 hour per week; 1 credit.
Prerequisite: As for Mathematics 100.

PROFESSOR PATTERSON.

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

104 Elementary Differential and Integral Calculus.

1 hour per week; 1 credit.
Prerequisite: As for Mathematics 100.

MR. WOODS.

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

200. Algebra.

2 hours per week; 2 credits.
Prerequisite; Mathematics 100.

MR. WOODS.

Texts: Hall and Knight, *Higher Algebra* (Macmillan).
L. G. Weld, *Theory of Determinants* (Macmillan).
Burnside and Panton, *Theory of Equations*, Vol I (Dublin Univ. Press).

201 Analytical Plane Geometry.

1 hour per week; 1 credit.
Prerequisite: Mathematics 102.

PROFESSOR PATTERSON.

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

202 **Analytical Solid Geometry.**
1 hour per week; 1 credit.
Prerequisites: Mathematics 100-104, inclusive.

MR. WOODS.

Text-book: C. Smith, *Solid Geometry* (Macmillan).

203 **Spherical Trigonometry and Astronomy.**
1 hour per week; 1 credit.
Prerequisites: Mathematics 100-104, inclusive.

MR. WOODS.

Text-book: Dupuis and Matheson, *Spherical Trigonometry* (Uglow).
References: Todhunter and Leatham, *Spherical Trigonometry* (Macmillan).
Barlow and Bryan, *Elementary Mathematical Astronomy* (Briggs and Bryan, Tutorial Series).

204 **Differential and Integral Calculus.**
2 hours per week; 2 credits.
Prerequisites: Mathematics 104.

PROFESSOR PATTERSON.

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

Group 3.

(**Note:** Groups 3 and 4 will be given in alternate years, group 3 in 1921–22, except that 400b will be substituted for 304.)

300 **Modern Higher Geometry, Analytic and Synthetic.**
1 hour per week; 1 credit.
Prerequisites: Mathematics 200-204, inclusive.

PROFESSOR PATTERSON.

Text: Salmon, *Conic Sections* (Longmans).
References: Reye (tr. Holgate), *Geometry of Position, Part I* (Macmillan).
Cremona, *Projective Geometry* (Macmillan).
Hatton, *Principles of Projective Geometry* (Dent).
Veblin and Young, *Projective Geometry* (Ginn).

301 **Higher Plane Curves.**
1 hour per week; 1 credit.
Prerequisites: Mathematics 200-204, inclusive.

PROFESSOR PATTERSON.

Texts: Williamson, *Differential Calculus* (Appleton).
Williamson, *Integral Calculus* (Longmans).
Reference: Salmon, *Analytical Geometry* (Gauthier-Villars, Paris).

302 **Solid Geometry.**
2 hours per week; 2 credits.
Prerequisites: Mathematics 200-204, inclusive.

PROFESSOR PATTERSON.

Text: C. Smith, *Solid Geometry* (Macmillan).
Reference: Salmon, *Analytical Geometry of Three Dimensions, Vols. I and II* (Longmans).

303 **Differential Equations.**
1 hour per week; 1 credit.
Prerequisites: Mathematics 200-204, inclusive.

PROFESSOR PATTERSON.

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

304 **Vector Algebra.**
2 hours per week, one term; 1 credit.
Prerequisites: Mathematics 200-204, inclusive.

PROFESSOR PATTERSON.

Texts: Hyde, *Grassmann's Space Analysis* (Wiley).
References: Hyde, *Directional Calculus.*
J. G. Coffin, *Vector Analysis.*

Group 4.

400a **Number Concepts.**
2 hours per week, one term; 1 credit.
Prerequisites: Mathematics 200-204, inclusive.

MR. WOODS.

Text: Manning, *Irrational Numbers* (Wiley).
References: Dedekind, *Essays on Number* (Open Court).
Harkness and Morley, *Theory of Functions* (Macmillan).

400b **Theory of Functions of Real and Complex Variables.**
1 hour per week, first term.
2 hours per week, 2nd term; 1½ credits.
Prerequisites: Mathematics 200-204, inclusive.

MR. WOODS.

Texts: Pierpont, *Theory of Functions of Real Variables, Vol. I* (Ginn).
T. S. Fiske, *Functions of a Complex Variable* (Wiley).
References: Harkness and Morley, *Theory of Functions* (Macmillan).
Forsyth, *Theory of Functions.*
Harnack, *Introduction to the Calculus.*
Goursat, *Functions of a Complex Variable* (Ginn).
H. Hancock, *Lectures on the Theory of Elliptic Functions* (Wiley).

401a **Theory of Hyperbolic Functions.**
2 hours per week, one term; 1 credit.
Prerequisites: Mathematics 200-204, inclusive.

PROFESSOR PATTERSON.

Text: J. McMahon, *Hyperbolic Functions* (Wiley).

401b **Theory of Elliptic Integrals.**
2 hours per week, one term; 1 credit.
Prerequisites: Mathematics 200-204, inclusive.

PROFESSOR PATTERSON.

Text: H. Hancock, *Elliptic Integrals* (Wiley).

402 Quaternions.
1 hour per week; 1 credit.
Prerequisites: Mathematics 200-204, inclusive.

MR. WOODS.

Text: Hardy, *Elements of Quaternions* (Ginn).
References: Kelland and Tait, *Introduction to Quaternions.*
Tait, *Quaternions* (Macmillan).
Hamilton, *Quaternions.*

403 Calculus of Finite Differences, (optional).
1 hour per week, one term; ½ credit.
Prerequisites: Mathematics 200-204, inclusive.
Text: Burn and Brown, *Elements of Finite Differences* (Spectator).

PROFESSOR PATTERSON.

Group 5.

These are Graduate Courses leading to the degree of **M.A.**

500g Invariant Theory.
2 hours per week; 2 credits.
References: L. E. Dickson, *Algebriac Invariants* (Wiley).
Elliott, *The Algebra of Quantics* (Oxford).
Salmon, *Lessons on Modern Higher Algebra* (Gauthier-Villars, Paris).
Grace and Young, *Algebra of Invariants* (Cambridge).
Glenn, *Theory of Invariants* (Ginn).

501g Twisted Curves.
2 hours per week; 2 credits.
Texts: Salmon, *Analytical Geometry of Three Dimensions, Vols. I and II.*
P. C. Wood, *The Twisted Cubic* (Cambridge).

502g The Theory of Continuous Groups of One Parameter.
2 hours per week; 2 credits.
Texts: Page, *Ordinary Differential Equations* (Macmillan).
Cohen, *The Lie Theory of One Parameter Groups* (Heath).

503g The Calculus of Variations.
2 hours per week; 2 credits.
Texts: Williamson, *Integral Calculus.*
H. Hancock, *Lectures on the Calculus of Variations* (Univ. of Cincinnati).
References: Bolza, *Lectures on the Calculus of Variations* (Univ., Chicago).

Department of Philosophy

University College of Arts.

Rev. G. B. SAGE, M.A., D.D.,	Lecturer
Rev. B. H. ROBINSON, M.A.,	Lecturer

Assumption College,

REV. WM. ROACH, B.A.,	Professor
REV. J. C. PLOMER, B.A	Professor
REV. W. SHARPE, M.A.,	Professor
REV. C. COUGHLIN, B.A.,	Professor

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

MR. ROBINSON.

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: Angell, *Psychology* (Holt).
Stout, *Groundwork of Psychology* (Hinds, Noble).

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. ROBINSON.

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 and in all the Honor Courses except Classics, Geology, Physics and Biology.
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 **Modern Philosophy;** lectures, prescribed reading and essays. An option for students in the fourth year of the General Course. The course deals with the following topics:—

I. German Philosophy, with special reference to Kant and his disciples.
II. English Philosophy; Mill and Spencer.
III. Most recent philosophic theories.

2 hours per week; 2 credits.

MR. ROBINSON.

Honor Courses

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

PROFESSOR COUGHLIN.

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

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 ROACH.

320 A course in **Ethics.**
3 hours per week; 3 credits.
PROFESSOR PLOMER.

330 A course in **Logic.**
2 hours per week; 2 credits.
PROFESSOR ROACH.

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 ROACH.

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

420 A course in **Ethics.**
3 hours per week; 3 credits.
PROFESSOR PLOMER.

430 **History of Philosophy,** Modern.
3 hours per week; 3 credits.
PROFESSOR SHARPE.

Department of Physical and Military Training

Supervisor: MAJOR G. MEL. BROCK.

Students are given a physical examination at the beginning of each session. Anthropometric charts are kept for each student. Corrective exercises will be prescribed where necessary.

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 or 3 hours per week; 1 or 1½ credits.
Tuesday and Thursday, 4.30, Gymnasium.
MAJOR BROCK.

11 **Physical Training for Men.** Required of all men in the first year. Drills and exercises, outdoor and indoor games.

2 to 3 hours per week; 1 or 1½ credits.

Monday and Wednesday at 4.30, Gymnasium.

MAJOR BROCK.

12 **Military Training.** An alternative for Physical Training 11 for men of the first year. Squad, section, platoon and company drill.

2 or 3 hours per week; 1 or 1½ credits.

Tuesday, Thursday, Friday, 5–6, Armouries.

MAJOR BROCK and Assistants.

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 or 3 hours per week; 1 or 1½ credits

Tuesday and Thursday, 4.30, Gymnasium MAJOR BROCK.

21 **Physical Training for Men.** Required of all men in the second year. Drills and exercises, outdoor and indoor games.

2 or 3 hours per week; 1 or 1½ credits.

Monday and Wednesday at 4.30, Gymnasium.

MAJOR BROCK.

22 **Military Training.** Optional with 21 for all men in their second year. Practice in instruction in squad, section, platoon and company drill. Preparation for the efficiency test for certificates for lieutenants in the Canadian Militia.

2 or 3 hours per week; 1 or 1½ credits.

Prerequisite: Physical and Military Training 12.

Tuesday, Thursday, Friday, 5–6, Armouries.

MAJOR BROCK and Assistants.

30 **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; 1 credit.

MAJOR BROCK.

32 **Military Training.** Optional for men in their third year. Practice in instruction in squad, section, platoon and company drill, as non-commissioned officers in the University contingent.

Lectures and theory of the work laid down for certificate for lieutenants in the Canadian Militia.

3 to 5 hours per week; 3 credits.

Prerequisite: Physical and Military Training 22.

42 **Military Training;** an option for men in their fourth year; practice, lectures, theory of the work laid down for captains' certificates in Canadian Militia.

5 hours per week; 3 credits.

Prerequisite: Physical and Military Training 32.

Department of Physics

R. C. DEARLE, M.A., PH.D. — Professor
A. C. LEWIS, M.A. — Instructor

10 **Mechanics and Heat:** A presentation of the general principles without extensive mathematical applications. Optional for first year students in the General Course.

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

Text-books: Franklin and McNutt, *General Physics* (McGraw-Hill).
Reed and Guthe, *College Physics.*
Aldous, *Elementary Course of Physics.*
Merchant and Chant, *Mechanics for the Upper School.*

12 **General Physics:** An introductory course of demonstrations and lectures, supplemented by practical work in the laboratory; prescribed for first year students in the Medical Course.

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

Text-books: See Physics 10.

20 **Electricity, Sound and Light:** Supplementary to 10 and similar in scope. Optional for second year students in the General Course. Trigonometry, including logarithms, must be taken previously or simultaneously.

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

Prerequisite: Physics 10.

Text-books: Franklin and McNutt, *General Physics* (McGraw-Hill).
Watson, *General Physics* (Longmans).

30 **Physical Measurements:** Lectures on laboratory methods and practical work with emphasis on precision; optional, with 31, for third year students in the General Course.

2 laboratory hours per week; 1 credit.

Prerequisites: Physics 20.

31 **Electrical Measurements:** Lectures and practical work illustrating various methods of measurement and comparison of fundamental electrical quantities. Optional, with 30, for third year students in the General Course.

2 laboratory hours per week; 1 credit.
Prerequisites: Physics 20.

40 **Electromagnetic Theory and Practice.** Lectures and laboratory work introducing the fundamental phenomena of direct and alternating currents, with a study of commercial types of motors, generators, transformers and rectifiers, involving elementary applications of calculus. Optional for fourth year students in the General Course.
2 lectures, 2 laboratory hours per week; 3 credits.
Prerequisites: Physics 31, Mathematics 102 and 104.

Honor Courses

100 **Mechanics and Heat.** Fundamental principles without extensive mathematical applications; prescribed for first year students in the B.A., M.D., and the Honor Science, Geology, and Biology Courses.
2 lectures, 3 laboratory hours per week; 3 credits.
Text-books: See Physics 102.

101 **Physical Measurements;** similar to 30; prescribed for students in the first year of the Honor Physics and Mathematics Courses.
3 laboratory hours per week; 1 credit.
Prerequisites: Physics 10 or an equivalent.

102 **Electricity, Sound and Light.** The general principles of fundamental importance with mathematical treatment involving a knowledge only of trigonometry and logarithms: similar to 20. Prescribed for first year students in the Honor Physics and Mathematics Courses and for second year students in the Honor Science, Geology, and Biology Courses.
2 lectures, 3 laboratory hours per week; 3 credits.
Prerequisites: Physics 10 or an equivalent.
Text-books: Franklin and McNutt, *General Physics* (McGraw-Hill).
Watson, *General Physics* (Longmans).

200 **Elements of Mechanics;** a mathematical treatment introducing numerous applications of physical principles. Prescribed for the second year students in the Honor Physics and Mathematics Courses.
2 lectures per week; 2 credits.
Prerequisites: Physics 100, 101.
Text-books: Jeans, *Mechanics.*
Crew, *Principles of Mechanics.*

201 **Properties of Matter and Heat.** An introduction to the kinetic theory and phenomena of intermolecular forces, including elasticity, surface tension, capillarity, osmosis, changes

of state, laws of gases, etc., principles of thermometry for high and low temperatures, mechanical equivalent of heat, and heat engines. Prescribed for second year students in the Honor Physics and Mathematics Courses.

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

Prerequisites: Physics 100, 101.

Text-books: Boynton, *Kinetic Theory.*
Poynting and Thomson, *Properties of Matter.*
Preston, *Theory of Heat.*

202 **Electrical Measurements**; similar to 31. Prescribed for second year students in the Honor Physics and Mathematics Courses.

3 laboratory hours per week; 1 credit.

Prerequisites: Physics 100, 101.

300 **Advanced Mechanics;** a continuation of 200 making use of calculus and simple differential equations; prescribed for third or fourth year students in the Honor Physics and Mathematics Courses. Offered in alternate years.

2 lectures per week; 2 credits.

Prerequisites: Physics 200, 201.

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. Prescribed for third or fourth year students in the Honor Physics and Mathematics Courses.

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

Prerequisites: Physics 200, 201.

Text-books: Wood, *Physical Optics.*
Houston, *Light.*

302 **Electron Theory of Matter and Electromagnetic Theory of Light.** A study of the development of some recent ideas concerning matter and energy. Prescribed for third or fourth year students in the Honor Physics and Mathematics Courses. Offered in alternate years.

1 lecture per week; 1 credit.

Prerequisite: Physics 200, 201, 202.

303 **Spectroscopy and Radiation;** an introduction to modern conceptions in spectroscopy and high temperature measurements. Prescribed for third or fourth year students in the Honor Physics and Mathematics Courses. Offered in alternate years.

6 hours per week in laboratory; 2 credits.

Prerequisites: Physics 200, 201, 202.

304 **Wave Motion and Oscillatory Phenomena;** an elementary treatment of Fourier's analysis and the mathematics of wave motion. Prescribed for third or fourth year students in the Honor Physics and Mathematics Courses.

1 lecture per week; 1 credit.

Prerequisites: Physics 200, 201, 202.

305 **Theory of Heat.** An intermediate course without extensive mathematical analysis, introducing the fundamental principles of thermodynamics, radiation and temperature measurements. Prescribed for third or fourth year students in the Honor Science Course. Offered in alternate years.

2 lectures per week; 2 credits.

Prerequisites: Physics 200, 201, 202.

400 **Mathematical Theory of Potential,** with applications. Prescribed for third or fourth year students in the Honor Physics and Mathematics Courses. Offered in alternate years.

2 lectures per week; 2 credits.

Prerequisites: Physics 200-202.

401 **Electromagnetic Theory and Practice;** similar to 40. Prescribed for fourth year students in the Honor Physics Course. Offered in alternate years.

2 lectures, 9 laboratory hours per week; 6 credits.

Prerequisites: Physics 200-202.

402 **Elementary Thermodynamics and Theory of Gases.** Prescribed for third or fourth year students in the Honor Physics and Mathematics Courses. Offered in alternate years.

2 lectures per week; 2 credits.

Prerequisite: Physics 200-202.

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 Honor Science Course. Offered in alternate years.

2 lectures per week; 2 credits.

Prerequisites: Physics 100, 102.

404 **Seminar in Current Literature.** Students will be required to read a series of articles from selected scientific periodicals, and present oral reports. Prescribed for fourth year students in the Honor Physics Course.

1 hour per week; 1 credit.

Department of Political Economy

PROFESSOR WOOD, MR. PERRIN

Political Economy

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.

PROFESSOR WOOD

Text-books: C. Gide, *Principles of Political Economy.*
F. W. Taussig, *Principles of Economics.*
C. J. Bullock, *Selected Readings in Economics.*
J. G. Bartholomew, *Advanced Economic Atlas.*

References: The Works of Adam Smith, Ricardo, Mill, Marx, Boehm-Bawerk Marshall, Smart, Nicholson, Ely, etc.

30 Discussion of the following subjects: Theory of Money; Principles of Banking; Domestic and Foreign Exchange; Public Finance; Statistical Methods. Lectures, assigned reading; essays will be required from all students.

2 hours per week; 2 credits.

Prerequisite: Political Economy 20. PROFESSOR WOOD.

Text-books: D. A. Barker, *Theory of Money.*
J. F. Johnson, *Money and Currency.*
Canada and its Provinces, Vol. 10.
G. C. Plehn, *Introduction to Public Finance.*
J. Lyon, *Principles of Taxation.*
W. I. King, *Elements of Statistical Methods.*

References: H. Withers, *Meaning of Money.*
W. S. Jevons, *Money and the Mechanism of Exchange.*
G. J. Goschen, *Theory of the Foreign Exchanges.*
C. F. Bastable, *Public Finance.*
A. L. Bowley, *Elements of Statistics.*
E. R. A. Seligman, *Essays on Taxation.*
Canada and its Provinces (Selected portions).

40 **The History of Economic Theories.**

3 hours per week, first term; 1½ credits.

Prerequisite: Political Economy 30.

PROFESSOR WOOD.

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.*

41 (a) **Corporation Finance** including a study of the **Stock Markets.**

3 hours per week, second term; 1½ credits.

Prerequisite: Political Economy 20.

PROFESSOR WOOD.

Text-books: E. S. Mead, *Corporation Finance.*
F. W. Hurst, *The Stock Exchange.*

References: Hastings Lyon, *Corporation Finance.*
S. S. Pratt, *The Work of Wall Street.*
T. E. Burton, *Corporations and the State.*

(b) **The Principles of Transportation.**

Text-book: E. R. Johnson, *Elements of Transportation.*

References: Cleveland and Powell, *Railroad Finance.*
Ray Morris, *Railroad Administration.*
H. B. Vanderblue, *Railroad Valuation.*
Johnson and Huebner, *Principles of Ocean Transportation.*
B. O. Hough, *Ocean Traffic and Trade.*

200 **The Elements of Political Economy.** Lectures, assigned reading; essays will be required as term work from all students.

2 hours per week; 2 credits. PROFESSOR WOOD.

Text-books: G. Gide, *Principles of Political Economy.*
F. W. Taussig, *Principles of Economics.*
C. J. Bullock, *Selected Readings in Economics.*
J. G. Bartholomew, *Advanced Economic Atlas.*

References: The Works of Adam Smith, Ricardo, Mill, Marx, Boehm-Bawerk, Marshall, Smart, Nicholson, Ely, etc.

201 **Commercial Geography.**

2 hours per week, first term; 1 credit.

PROFESSOR WOOD.

Text-book: L. W. Lyde, *Commercial Geography.*

References: Spencer Trotter, *The Geography of Commerce.*
J. D. Whelpley, *The Trade of the World.*

202 **Industrial History of Canada since Confederation.**

2 hours per week, second term; 1 credit.

PROFESSOR WOOD.

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 Discussion of the following subjects: The Theory of Money; Principles of Banking; Domestic and Foreign Exchange; Public Finance; Statistical Methods. Lectures, assigned reading; essays will be required from all students.

2 hours per week; 2 credits.

Prerequisite: Political Economy 200, 201, 202.

PROFESSOR WOOD.

Text-books: D. A. Barker, *Theory of Money.*
J. F. Johnson, *Money and Currency.*
Canada and its Provinces, Vol. 10.
G. C. Plehn, *Introduction to Public Finance.*
J. Lyon, *Principles of Taxation.*
W. I. King, *Elements of Statistical Methods.*

References: H. Withers, *Meaning of Money.*
W. S. Jevons, *Money and the Mechanism of Exchange.*
G. J. Goschen, *Theory of the Foreign Exchanges.*
C. F. Bastable, *Public Finance.*
A. L. Bowley, *Elements of Statistics.*
E. R. A. Seligman, *Essays in Taxation.*
Canada and its Provinces (Selected portions).

301 The **Economic History** of (1) Great Britain, (2) the chief European countries and (3) the United States of America.

2 hours per week; 2 credits.
Prerequisites: Political Economy 200, 201, 202.

PROFESSOR WOOD.

Text-books: M. Briggs, *Economic History of England.*
H. A. B. Gibbons, *History of Commerce in Europe.*
K. Coman, *Industrial History of the United States.*
Bland, Bowman and Tawney, *English Economic History, Select Documents.*

References: W. Cunningham, *Outlines of English Industrial History.*
E. P. Cheyney, *Introduction to the Industrial and Social History of England.*
E. L. Bogart, *Economic History of the United States.*
Clive Day, *A History of Commerce.*
C. A. Herrick, *History of Commerce and Industry.*

400 **The History of Economic Theories.**
3 hours per week, first term; 1½ credits.
Prerequisite: Political Economy 300, 301.

PROFESSOR WOOD.

Text-book: J. K. Ingram, *History of Political Economy.*

References: L. H. Haney, *History of Economic Thought.*
C. Gide and C. Rist, *History of Economic Doctrines.*
W. Smart, *Economic Annals of the Nineteenth Century.*

401 (a) **Corporation Finance** including a study of the Stock Markets.
3 hours per week, second term; 1½ credits.

PROFESSOR WOOD.

Text-books: E. S. Mead, *Corporation Finance.*
F. W. Hurst, *The Stock Exchange.*

References: Hastings Lyon, *Corporation Finance.*
S. S. Pratt, *The Work of Wall Street.*
T. E. Burton, *Corporations and the State.*

(b) **The Principles of Transportation.**

Text-book: E. R. Johnson, *Elements of Transportation.*

References: Cleveland and Powell, *Railroad Finance.*
Ray Morris, *Railroad Administration.*
H B. Vanderblue, *Railroad Valuation.*
Johnson and Huebner, *Principles of Ocean Transportation.*
B. O. Hough, *Ocean Traffic and Trade.*

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

PROFESSOR WOOD.

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, *Labor 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, *Socialism 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 labor platforms, the manifestos of Socialism, and the policies of Syndicalism.

403 International Trade and Tariff Systems.
2 hours per week, second term; 1 credit.

PROFESSOR WOOD.

Text-books: C. F. Bastable, *Theory of International Trade.*
G. M. 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.*

404 Problems of Distribution.
2 hours per week, second term; 1 credit.

PROFESSOR WOOD.

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

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.

MR. PERRIN.

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.

MR. PERRIN.

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.

MR. PERRIN.

Text-books: Holland's *Elements of Jurisprudence.*
Sir Henry Maine's *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.

MR. PERRIN.

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.

MR. PERRIN.

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. MR. PERRIN.

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 305-07. MR. PERRIN.

Text-book: Westlake's *International Law.*

Department of Public Health and Bacteriology

DEAN HILL AND ASSOCIATE PROFESSOR LUNEY.

10 A series of lectures 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. The modern methods of handling and preventing infectious diseases, the hygiene of water, milk, food and flies; the physiological principles involved in and the significance of ventilation, foods and feeding, water supplies, sewage disposal, vital statistics, infant mortality, etc., are included. All subjects are so treated from a practical standpoint as to outline the principles and show the general methods based upon them. Technicalities are avoided, the aim being

not to train public health specialists but to give such information as any 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. The ordinary infectious diseases are described as to their appearance and symptoms so far as would be useful in the ordinary life of a private citizen.

1 hour per week; 1 credit.

Department of Romance Languages

University College of Arts

L. P. SHANKS, PH.D.,	Professor
G. LAFAYETTE CRAM, M.A.	Instructor
BATEMAN EDWARDS, B.A.	Instructor

Assumption College

Rev. L. J. Bondy, B.A.,	Professor
Rev. E. T. BURNS,	Lecturer

Ursuline College

M. M. ST. ANNE, B.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. MR. CRAM
MR. EDWARDS.

Text-books: Buffum, *French Short Stories or Contes francais.*
Skinner and Dow, *Contes des Romanciers Naturalistes.*
Fraser and Squair, *French Grammar.*
Carnahan, *French Review Grammar.*

Outside Reading: Loti, *Ramuntcho.*
Daudet, *Le Petit Chose or Lettres de mon Moulin.*
Mérimée, *Colomba.*
About, *Le Roi des Montagnes.*

20 Modern Novels and Comedies; dictation, conversation and prose composition.

Prerequisite: French 10.

3 hours per week; 3 credits.

MR. EDWARDS.

Text-books: Hugo, *Quatre-vingt-treize* or *Les Misérables.*
Balzac, *Eugénie Grandet* or *Le Père Goriot.*
France, *Le Crime de Sylvestre Bonnard* or *Le Livre de mon Ami.*
Sand, *Francois le Champi* or *La petite Fadette.*
Levi, *French Composition.*
Fraser and Squair, *French Grammar.*

Outside Reading: Beaumarchais, *Le Barbier de Séville.*
Le Sage, *Turcaret.*
Marivaux, *Le Jeu de l'Amour et du Hasard.*
Dumas, *La Question d'Argent.*
Pailleron, *Le Monde ou l'on s'ennuie.*
Rostand, *Les Romanesques.*

30 Modern French Literature.
Prerequisite: French 20.
3 hours per week; 3 credits. PROFESSOR SHANKS.

Text-books: Vreeland and Michaud, *Anthology.*
Canfield, *French Lyrics.*
Hugo, *Hernani* or *Ruy Blas; Notre-Dame.*
Michelet, *Extraits de l'Histoire de France.*
Daudet, *Tartarin sur les Alpes.*
Augier, *Le Gendre de Monsieur Poirier,* etc.
Rostand, *Cyrano de Bergerac.*

Outside Reading: Voltaire, *Zadig, etc.,* or Diderot, selections.
Chateaubriand, *Atala.*
Musset, *Comedies.*
Lamartine, *Graziella.*
Vigny, *Servitude et Grandeur Militaires.*
Joliet, *Précis Illustree de la Littérature française.*

40 French Literature of the Seventeenth Century; dictation, conversation and prose composition.
Prerequisite: French 30.
3 hours per week; 3 credits. MR. EDWARDS.

Text-books: Molière, *Les Précieuses Ridicules, Le Misanthrope.*
Corneille, *Le Cid* or *Horace.*
Racine, *Andromaque* or *Athalie.*
Schinz and King, *Seventeenth Century French Readings* (Selections)
Koren, *French Composition.*

Outside Reading: Molière, *Le Bourgeois Gentilhomme.*
L'Avare, Le Malade imaginaire.
Corneille, *Polyeucte* or *Cinna.*
Racine, *Britannicus* or *Phèdre.*
Mme de Lafayette, *La Princesse de Clèves.*
Strachey, *Landmarks of French Literature.*

Honor Courses

The Honor 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 pronounciation at the end of the first year will bar the student from continuing the honor course.

100 Modern French Literature. Conversation, dictation and prose composition. Prescribed for honor courses in Modern Languages and Romance Languages, and optional for honors in English and History.
3 hours per week; 3 credits.
PROFESSOR SHANKS.

Text-books: Maupassant, *Huit Contes Choisis.*
Hugo, *Quatre-vingt-treize* or *Les Misérables.*
Daudet, *Tartarin de Tarascon.*
France, *Le Crime de Sylvestre Bonnard* or *Le Livre de mon Ami.*
Levi, *French Composition.*
Fraser and Squair, *French Grammar.*

Outside Reading: Sand, *La Mare au Diable or La petite Fadette.*
Musset, *Comedies.*
Augier, *Le Gendre de Monsieur Poirier.*
Pailleron, *Le Monde où l'on s'ennuie.*
Rostand, *Les Romanesques.*
History of French Literature, from the manual of Abry-Audic-Crouzet, or Joliet: *Précis de l'Histoire de la Littérature française*, etc.

200 The Literature of the Seventeenth Century. Lectures, reading, conversation, dictation and prose composition. Prescribed for honors in Modern Languages, Romance Languages. Optional for Honors in English and History.

Prerequisite: Honor Matriculation French or French 100.

3 hours per week; 3 credits.

PROFESSOR SHANKS.

Text-books: Schinz and King, *Seventeenth Century French Readings*, in toto.
Corneille, *Le Cid, Horace, Cinna, Polyeucte.*
Boileau, *Art poëtique.*
Racine, *Andromaque, Britannicus, Phèdre.*
Athalie, Esther.
Molière, *Les Précieuses Ridicules, Les Femmes Savantes, Le Tartuffe, Le Misanthrope.*
Mme de Lafayette, *La Princesse de Clèves.*
Koren, *French Composition.*

References: Lanson, *Histoire de la Littérature française.*
Crane, *La Société française au 17ième Siècle.*
Strachey, Joliet or Abry-Audic-Crouzet, etc.

300 The Literature of the Eighteenth Century. Lectures, reading, conversation, dictation and essays in French. Prescribed for Honors in Modern Languages and Romance Languages; optional for Honors in English and History.

Prerequisite: French 200.

3 hours per week; 3 credits.

PROFESSOR SHANKS.

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.

400 The Literature of the Nineteenth Century. Lectures, reading, conversation and essays in French. Prescribed for honors in Modern Languages and Romance Languages; optional for honors 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.

Skinner and Dow, *Contes des Romanciers Naturalistes.*
Augier, *Le Fils de Giboyer.*
Dumas, *La Question d'Argent.*
Flaubert, *Salammbô.*
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.

OLD FRENCH

301 Vowel change, Old French declension, recognition of verb forms. Prescribed for third year students in Modern Language and Romance Language honors.

Prerequisite: Latin 10, 20 or 100, 200; French 200.

1 hour per week; 1 credit. Not given in 1921–1922.

MR. CRAM.

Text-book: *Chanson de Roland, Aucassin et Nicolette.*

ITALIAN.

100 Grammar, pronunciation, conversation, memorization. Prescribed for first year students in Honor Romance Languages.

3 hours per week; 3 credits. Not given in 1921–1922.

MR. EDWARDS

Text-books: Phelps, *Italian Grammar.*
Wilkins-Altrocchi, *Italian Short Stories.*
Dante, *Vita nuova.*
De Amicis, *Cuore.*

200 Grammar, conversation, memorization, compositions Prescribed for honors in Romance Languages.

Prerequisite: Italian 100.

3 hours per week; 3 credits. PROFESSOR SHANKS.

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 honors in Romance Languages.

Prerequisite: Italian 200. Not given in 1921–1922.

3 hours per week; 3 credits. PROFESSOR SHANKS.

400 Modern Italian Literature. Prescribed for fourth year students in Romance Languages honors. Combined for 1922–1923 with Italian 300. Not given in 1921–1922.

SPANISH.

100 Elementary Course. Grammar, pronunciation, conversation. This course is conducted in Spanish. Prescribed for first year students in Romance Honors.

Prerequisite: Junior Matriculation.

3 hours per week; 3 credits. MR. CRAM

Text-books: Hills and Ford, *First Spanish Course.*
Albes, *Viajando por Sud América.*
Pittaro, *Spanish Reader.*
Hills and Reinhart, *Spanish Short Stories.*
Outside Reading: Alarcón, *El Capitán Veneno.*
Carrión y Aza, *Zaragüeta.*

200 Grammar, reading, conversation, translation into Spanish.

Prerequisite: Spanish 100 or its equivalent.
3 hours per week; 3 credits. MR. CRAM.

Text-books: Valdés, *José* or *La Alegría del Capitán Ribot.*
Valera, *Pepita Jiménez,* or *El Comendador Mendoza.*
Galdós, *Dona Perfecta* or *Marianela.*
Echegaray, *O Locura ó Santidad.*
Umphreys, *Spanish Prose Composition.*
Outside Reading: Alarcón, *Novelas Cortas Escogidas.*
Taboada, *Cuentos Alegres.*

300 Reading, conversation, prose composition.
Prerequisite: Spanish 200 or its equivalent.
3 hours per week; 3 credits. MR. CRAM.

Text-books: Cervantes, *Don Quijote* or *Novelas Ejemplares.*
Calderón, *La Vida es Sueño* or *El Alcalde de Zalamea.*
Lope de Vega, *La Moza de Cántaro* or *Amar sin Saber á Quién.*
Ford, *A Spanish Anthology.*
Ford, *Main Currents of Spanish Literature.*
Fitzmaurice-Kelly, *History of Spanish Literature.*

400 Modern Spanish Literature, with some consideration of the works of Latin-American writers.

Prerequisite: Spanish 300.
3 hours per week; 3 credits.
Text-books to be selected.

TIMETABLE FOR GENERAL COURSE CLASSES

	8–9	9–10	10–11	11–12
Monday	Latin 10 History 30 Spanish 400 Italian 200 Greek 30, 40	English 10 English 30 History 20 German 40 Italian 400	French 10 French 30 German 20 Pol. Econ. 20 Hebrew 10	Spanish 100 Math. 20 Philos. 30 French 40 Math. 15 Lib. Sc. 10
Tuesday	English 20 English 40 Spanish 300	Math. 10 French 20 History 40 German 30 Greek 20	Latin 20 German 10 Pol. Econ. 30 Pol. Econ. 40 Greek 10 Italian 300 Commerce 10	Spanish 200 Latin 30, 40 Philosophy 40 Italian 100 Hebrew 20 Lib. Sc. 10
Wednesday	Latin 10 History 30 Spanish 400 Italian 200 Greek 30, 40 Italian 400	English 12 English 30 History 20 History 44 German 40	French 10 French 30 German 20 Phil. 21 Hist. 42, 43 Hebrew 10	Spanish 100 Math. 21 Phil. 31 Phil. 20 French 40 Lib. Sc. 10
Thursday	English 22 English 40 Spanish 300	Math. 10 French 20 History 40 German 30 Greek 20	Latin 20 German 10 Pol. Econ. 30, 40 Greek 10 Italian 300 Commerce 10	Spanish 200 Latin 30, 40 English 11 Philos. 40 Italian 100 Hebrew 20 Lib. Sc. 10
Friday	Latin 10 History 30 Spanish 400 Italian 200 Greek 30,40	English 10 English 30 History 20 History 44 German 40 Italian 400	French 10 French 30 German 20 Pol. Econ. 20 History 42 History 43 Hebrew 10	Spanish 100 Math. 22 Phil. 30 French 40 Lib. Sc. 10
Saturday	English 20 English 40 Spanish 300	Math. 11 French 20 History 40 German 30 Greek 20	Latin 20 German 10 Greek 10 Italian 300 Pol. Econ. 30 Pol. Econ. 40 Commerce 10	Spanish 20 Latin 30,40 Phil. 40 Italian 100 Hebrew 20 Lib. Sc. 10

TIMETABLE FOR GENERAL COURSE CLASSES

1–2	2–3	3–4	4–5	5–6
Hebrew 30, 40 Biology 20 Biology 40 Chemistry 10 Chemistry 30 Geology 40	Biology 20 Biology 40 Chemistry 10 Chemistry 30 Geology 40	Biology 20 Biology 40 Chemistry 10 Chemistry 30 Geology 40		
Biology 10 Biology 30 Chemistry 20 Chemistry 40 Geology 20	Biology 10 Biology 30 Chemistry 20 Chemistry 40 Geology 20	Biology 10 Biology 30 Chemistry 20 Chemistry 40 Geology 20	Physical Training	
Hebrew 30, 40 Physics 10 Physics 20 Geology 40	Geology 20 Biology 20 Biology 40 Chemistry 10 Chemistry 30 Physics 30 Physics 40	Geology 20 Biology 20 Biology 40 Chemistry 10 Chemistry 30 Physics 30 Physics 40	Public Health and Bacteriology Physics 30 Physics 40	
Physics 10 Physics 20 Geology 40	Biology 10 Biology 30 Chemistry 20 Chemistry 40 Geology 30 Physics 30 Physics 40	Biology 10 Biology 30 Chemistry 20 Chemistry 40 Geology 30 Physics 30 Physics 40	Physical Training	
Hebrew 30, 40 Physics 10 Physics 20 Geology 30	Physics 10 Physics 20 Geology 30	Physics 10 Physics 20 Geology 30		

STUDENT ORGANIZATIONS

THE ATHLETIC ASSOCIATION

The Executive of the Western University Athletic Association, the governing body in all athletic activities, is composed of one representative appointed by the Board of Governors, the President of the University ex-officio, one professor from the College of Arts and one from the Medical School, two students from the College of Arts, and two from the Medical School, and a secretary-treasurer, who is a member of the Faculty. Meetings are held every Monday during the academic year. The student representatives are elected by the votes of the students and are responsible to the students for the performance of their executive duties. This Executive grants colors, crests and letters, handles all athletic finances, and arranges and controls interfaculty contests in football, hockey, track, basketball and tennis. Games are arranged with other universities and outside clubs. The supervision of the gymnasium is also under the control of this executive.

Officers for 1919-20.

President.....PROF. N. C. HART.
Vice-President.....W. E. MACE, Med. '22
Secretary-Treasurer.....G. MEL. BROCK
Executive Committee: MAJOR J. GORDON INGRAM, Board of Governors.
MISS G. WEBSTER ,Arts, '22; T. O. SMITH, Med., '22; H. E. MACMAHON, Arts, '22; DR. J. W. CRANE.

W. U. C. O. T. C.

January 1, 1915, permission was granted for the organization of a contingent of the Canadian Officers' Training Corps in connection with Western University, under the command of Major T. J. Murphy, of the Board of Governors. Since that the work of the corps has attracted a large number of students, and many have been able to qualify for a lieutenant's commission in the militia and a few for a captain's.

Committee of Military Education.

President.....DEAN W. SHERWOOD FOX
Secretary.....LT. H. R. LAURIE
Members, MAJOR CORRIGAL, (Representing District H. Q.).
DR. F. R. MILLER.
MAJOR G. MEL. BROCK.

APPENDIX

THE MEDICAL SCHOOL

The fortieth session of the Medical School of the Western University will begin on October 3, 1921. Examinations for the removal of conditions will be given on September 30, and lectures will begin on October 4.

Work in Physiology, Pharmacology and Anatomy is conducted by full-time men in the Medical School Building, where much new equipment has been provided for work in these departments. Work in Public Health, Pathology, Bacteriology, Chemistry and Physics is carried on at the Institute of Public Health by full-time men.

Excellent opportunity is afforded at Victoria Hospital for the study of diseases common to this climate and for work in Surgery and Gynecology. Material for bedside teaching is also available at St. Joseph's Hospital, the Hospital for the Insane and the Alexandra Sanatorium. Unusual facilities for the teaching of Practical Obstetrics are afforded in the Salvation Army Maternity Hospital and in the Lying-in-Ward of Victoria Hospital.

A certificate of having passed the Junior Matriculation Examination conducted by the Education Department of Ontario is required for entrance into the Western University Medical School.

The course of study leading to the Degree of M.D. has been lengthened by one year so as to include six years of work.

Blanks to be used in application for registration, the Annual Announcement, or any other information concerning the Medical School may be obtained by addressing the Dean of the Western University Medical School, or the Registrar of Western University, London, Ontario.

THE INSTITUTE OF PUBLIC HEALTH

The Institute of Public Health has been established by the Ontario Government and is maintained by a provincial appropriation under the control of the Board of Governors of Western University. In the Institute laboratories are performed the public health analyses for the western part of the Province. These consist of certain examinations in connection with diphtheria, tuberculosis, typhoid fever and rabies, and with water, sewage, milk, etc., which the Provincial Board of Health has arranged to have done free of charge. Other work is performed for physicians at a nominal fee. Analyses for industrial and commercial purposes are also undertaken. Besides doing public health and laboratory work, the staff

of the Institute avail themselves of opportunities for the instruction of the public in all matters relating to the prevention of disease and the promotion of health, by lecturing before various clubs and societies.

The Institute is organized into divisions, the heads of which act as the heads of corresponding departments in the University. Through this connection, the students in Arts receive their instruction in Public Health, Bacteriology and Chemistry in the Institute laboratories. The course in Public Health and Bacteriology aims to furnish knowledge of very practical value to the individual and to render more comprehensible to the student the modern efforts to improve the public health.

HURON COLLEGE

Huron College was founded in 1863 for training men for the ministry of the Church of England. Through its efforts the original character of the University was secured, and through many vicissitudes preserved, until in 1908 the City of London, undertook to contribute annually to the maintenance of the College of Arts, when Huron College became an affiliated institution under entirely separate management.

For conditions of entrance and courses of study, application should be made to the Principal, Huron College, London.

Degrees in Divinity, B.D., D.D., can be conferred by the Western University only on the recommendation of an affiliated theological college.

Huron Theological College is in the federation of all the Theological Colleges of the Church of England in Canada, organized under a canon of the General Synod for the purpose of maintaining a uniform standard and conducting the examinations for these degrees. The examinations are held annually in October. Certificates of Standing obtained in the University on any of the prescribed work, e. g., Hebrew, are accepted *pro tanto*.

A schedule of the work required for either degree can be obtained from Rev. Professor C. Abbott-Smith, D.D., Secretary of the Board, Ingleholm, Bellevue Avenue, Westmount, Quebec.

DEGREES CONFERRED 1920.

MASTER OF ARTS.

William Clifford Martin, B.A.
Sr. M. St. Michael, B.A.

BACHELOR OF ARTS.

William Selborne Anderson.
Anne Florence Beckton.
Gertrude May Cole.
Richard Edwin Crouch.
Richard J. Crump.
Douglas Hudson Ewen.
Vincent Joseph Guinan.
Carew Meredyth Charles Hallowell.
Roy Clifton Kingswood.
James Fenwick McMillan.
Wallace Russell Matthews.
James Allan Morrison.
Winnifred Edna Pearson.
Edward Leonard Rush.
Alfred Shaw.
Leslie John Stones.
Vera May Swartz.
Dorothy Orea Walter.
Edward Joseph Tighe.
Emil Jerome Welty.
Marion Jeanette Wrighton.

DOCTOR OF MEDICINE.

James Gordon Boyes.
Wendell Warden Carrothers.
Edmund Albert Floyd Day.
Roy Clifton Kingswood.
Edward Ignatius Loughlin.
Wallace Russell Matthews.
Bernard William McDougall.
Melville Anderson Platt.
Roland Pitman Reynolds.
Albert Josiah Slack.
William Edwin Weekes.

INDEX

	Page
Admission	22
Advanced Standing	24
Athletic Association	122
Bachelors of Arts, 1920	125
Bachelor of Arts, General Course, Regulations	24
" " " " Requirements	35
" " Honor Courses, Regulations	27
" " " " Biology	40
Chemistry	41
" " " " Classics	42
Commercial Economics	43
" " " " English and History	46
" " " " English and French	47
" " " " English and German	48
English and Latin	49
" " " " French and German	50
French and Latin	51
" " " " Geology	52
" " " " Mathematics	53
" " " " Philosophy	54
" " " " Physics	56
" " " " Political Science	56
" " " " Romance Languages	57
" " " " General Science	58
B.A., M.D. Course	59
Biology, Description of Courses in	60
Calendar, University	5
Canadian Officers' Training Corps	122
Caps, Academic	18
Chemistry, Description of Courses in	67
Commerce, Description of courses in	77
Contents, Table of	3
Degrees	17
Doctors of Medicine, 1920	125
English, Description of Courses in	78
Extramural Course, Regulations	26
Extramural Course, Requirements	38
Extramural Students	24
Fees	32
French, Description of Courses in	115
Geology, " " "	86
German " " "	88
Government " " "	113
Gowns, Academic	17

Greek, Description of Courses in 73
Hebrew, " " " 90
History, " " " 91
Honor Courses for Specialists' Certificates, Regulations 34
Hoods, Academic 18
Huron College 124
Italian, Description of Courses in 118
Latin, " " " 70
Law, " " " 31
Library Science, Description of Courses in 96
Master of Arts, 1920 125
Master of Arts Course, Regulations 29
Mathematics, Description of Courses in 96
Medals, Scholarships, Prizes 31
Medical School 123
Military Training, Description of Courses in 104
Officers of Administration, College of Arts 19
" " University 7
Officers of Instruction, College of Arts 19
" " University 8
Officers of Legislation, University 6
Officers, Other University 15
Philosophy, Description of Courses in 102
Physical Training, Description of Courses in 104
Physics, Description of Courses in 106
Political Economy, Description of Courses in 110
Public Health, Description of Courses in 114
Public Health, Institute of 123
Spanish, Description of Courses in 118
Special Students 23
Theological Options 38
Timetable of General Course Classes 120