UNIVERSITY OF WESTERN ONTARIO

LONDON - CANADA

FACULTY of ARTS



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

Announcement 1934-1935

UNIVERSITY OF WESTERN ONTARIO

LONDON - CANADA

FACULTY of ARTS

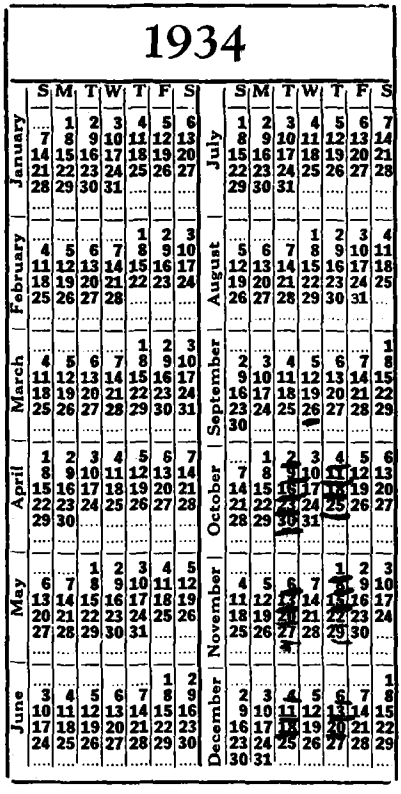


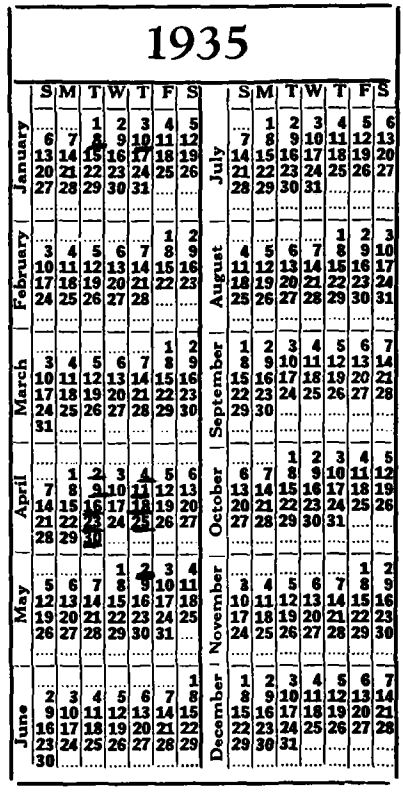
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Announcement 1934-1935

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CALENDAR OF FACULTY OF ARTS

1934

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

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

September 22, Saturday.....Registration day for second, third and fourth year students from London. 9-1 o'clock

September 24, Monday.....Registration day for all Freshmen.

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

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

October 3, Wednesday.....Last day of registration except on penalty of three dollars.
Last day of registration for M.A. candidates.

October.....Thanksgiving Day, holiday.

October 10, Wednesday.....Last day of registration for all except Special Students in the Faculty of Arts.

October 12, Friday, 1.00 p.m...Annual Field Day, half-holiday.

October 26, Friday.....Prize Day Exercises: Autumn Convocation.

December 22, Sat., 1.00 p.m ..Christmas vacation begins.

1935

January 7, Monday .....Lectures resume.
Last day for submitting outlines for M.A. theses.

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

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

January 30, Wednesday.....Second term begins; second term fees due.

February 1, Friday.....Last day for payment of second term fees, unless on penalty of one dollar.

April 18, Thursday, 5.00 p.m...Easter vacation begins.

April 23, Tuesday.....Lectures resume.

May 1, Wednesday .....M.A. and LL.B. theses due in Registrar's Office.

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

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

June 5, Wednesday .....Annual Convocation.

UNIVERSITY OFFICERS OF LEGISLATION

The Board of Governors

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

	Appointed by
DR. CLAUDE BROWN,	*Board of Governors* (1936)
MR. ARTHUR R. FORD,	*Board of Governors* (1935)
MR. FRANK FORRISTAL,	*Lieutenant Governor in Council*
MAJOR GORDON INGRAM,	*London City Council* (1934)
MR. A. T. LITTLE,	*Board of Governors* (1937)
MR. J. P. MOORE, K.C., M.L.A.,	*Lieutenant Governor in Council*
DR. H. T. REASON,	*London City Council* (1936)
MR. E. E. REID,	*London City Council* (1937)
MR. A. E. SILVERWOOD,	*London City Council* (1935)
MR. H. W. STRUDLEY,	*Lieutenant Governor in Council*
MR. ARTHUR W. WHITE,	*Board of Governors* (1937)

Officers of the Board

MR. A. T. LITTLE,	Chairman
MR. ARTHUR W. WHITE,	Vice-Chairman
COL. W. J. BROWN,	Secretary

The Senate

(1934-1936)

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

	Representative of
DEAN K. P. R. NEVILLE,	*Faculty of University College*
PROFESSOR R. C. DEARLE,	*Faculty of University College*
DEAN A. B. MACALLUM,	*Faculty of Medical School*
DR. F. J. H. CAMPBELL,	*Faculty of Medical School*
DEAN A. J. SLACK,	*Faculty of Public Health*
DR. T. J. MCNALLY,	*Faculty of Public Health*
RIGHT REV. C. A. SEAGER, D.D., LL.D.,	*Council of Huron College*
PRINCIPAL C. C. WALLER, D.D.,	*Council of Huron College*
PRESIDENT F. B. CLAUSEN, D.D.,	*Faculty of Waterloo College*
DEAN W. C. FROATS,	*Faculty of Waterloo College*
PRINCIPAL P. S. DOBSON, D.D.,	*Faculty of Alma College*
PRINCIPAL T. A. MACDONALD,	*Faculty of Assumption College*

REV. V. J. GUINAN,	*Faculty of Assumption College*
REV. F. J. BRENNAN,	*Faculty of Ursuline College*
REV. J. H. POCOCK,	*Faculty of Ursuline College*
MR. F. G. WAIDE,	*Graduates of University College*
DR. S. M. FISHER,	*Graduates of Medical School*
VEN. ARCHDEACON W. J. DOHERTY,	*Graduates of Huron College*
MR. CARL DETTMAN,	*Graduates of Assumption College*
MRS. R. WILLIAMS,	*Graduates of Ursuline College*
MR. H. KALBFLEISCH,	*Graduates of Waterloo College*
DR. R. J. GORDON,	*Graduates in Public Health*
DR. CLAUDE BROWN,	*Board of Governors*
MR. E. E. REID,	*Board of Governors*
MR. J. S. LOVELL,	*London Board of Education*
REV. J. A. COOK,	*London Separate School Board*
DR. L. S. HOLMES,	*City Council of London*
DR. W. J. STEVENSON,	*City Council of London*
MR. A. M. TOWE,	*City Council of London*
DR. C. J. A. MCKILLOP,	*City Council of St. Thomas*
MR. H. CONN,	*City Council of Sarnia*
MR. C. R. WIDDIFIELD,	*City Council of Galt*
DR. W. V. HARCOURT,	*City Council of Guelph*
REV. C. H. P. OWEN,	*City Council of Brantford*
MR. W. N. SEXSMITH,	*City Council of Chatham*
DR. R. S. MURRAY,	*City Council of Stratford*
REV. CANON P. N. HARDING,	*City Council of Windsor*
MR. E. P. HODGINS,	*City Council of Woodstock*
MR. C. MACFIE,	*County Council of Middlesex*
MR. E. S. LIVERMORE,	*County Council of Elgin*
MR. G. W. HOLMAN,	*County Council of Huron*
MR. G. A. PEARSON,	*County Council of Kent*
MR. RICHARD WILLIAMSON,	*County Council of Lambton*
MR. T. E. LANGFORD,	*County Council of Norfolk*
MR. A. E. ROTH,	*County Council of Oxford*
DR. G. H. JOSE,	*County Council of Perth*
MR. W. L. BOWDEN,	*County Council of Essex*
MR. G. L. BRACKENBURY	*Principals Secondary Schools*
MR. E. A. MILLER,	*Principals Secondary Schools*
DR. A. M. OVERHOLT,	*Principals Secondary Schools*
MR. D. A. SUTHERLAND,	*Principals Secondary Schools*

Officers of the Senate

Chairman,	**the President**
Secretary,	**the Registrar**

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

UNIVERSITY OFFICERS OF ADMINISTRATION

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

Visitor

HIS HONOUR, THE LIEUTENANT GOVERNOR OF ONTARIO.
Toronto, Ontario.

Chancellor

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

LL.D., 1926. 1929

President

WILLIAM SHERWOOD FOX, PH.D., D.LITT., LL.D., F.R.S.C.
270 Regent St.

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

Bursar

WILLIAM WAUGH, M.D., LL.D.
537 Talbot St.

M.D., McGill, 1872; LL.D., 1919. 1917

Registrar

KENNETH PERCIVAL RUTHERFORD NEVILLE, M.A., PH.D., F.A.G.S.
R. R. No. 3, London.

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

Executive Secretary

COL. WALTER JAMES BROWN, B.S.A., LL.M., F.C.I.S.
1006 Wellington St.

B.S.A., Toronto, 1894; LL.M., Chicago Law School, 1898; F.C.I.S., 1926. 1920

Librarian

FRED LANDON, M.A., F.R.S.C.
846 Hellmuth Ave.

B.A., 1906; M.A., 1919; F.R.S.C., 1929. 1917

Director of Extension Department

STAR FLOYD MAINE, M.A., B.D., PH.D.
257 Huron St.

B.A., 1917; B.D., Victoria, 1919; M.A., Chicago, 1922; Ph.D., Chicago, 1932. 1926

Acting Adviser to Women

ADA DOROTHY TURVILLE, M.A., PH.D.
Oxford St., West
B.A., 1917: M.A., Columbia, 1921; Ph.D., *ibid.*, 1925. 1924

Administrative Council

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

Other Officials

HELEN M. ALLISON, *Acting Associate Registrar*
11 Regina St.
B.A., 1924. 1924

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

GLAD BAILEY, *Switchboard Operator*
1B Westview Apts.
1933

GERTRUDE BURROWS, *Secretary to Alumni Director*
5 Partridge St.
1927

MAY CALDWELL, *Secretary to the Executive Secretary*
R. R. No. 1, Wilton Grove
1923

CATHERINE CAMPBELL, *Assistant in Library*
424 St. George St.
B.A. 1922. 1923

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

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

WINIFRED DAWSON, *Bookkeeper*
Pipe Line Road
1924

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

JOHN MACKENZIE DOBSON, *Alumni Director*
316 Wharncliffe Rd., N.
B.A., 1926; L.Th. (Huron), 1926. 1929

JEAN DOHERTY, *Secretary to the President*
876 Hellmuth Ave.
B.A., 1933. 1933

PAULINE FAUST, *Secretary to Science Staff*
25 Marley Place
B.A., 1932. 1932

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

RUTHE HAYES, *Assistant to the Registrar*
318 Hyman St.
B.A., 1932. 1932

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

MARY HUTCHISON, *Secretary to Science Staff*
300 Queen's Ave.
B.A., 1932. 1932

ANNIE LAURIE, *Assistant in Supply Store*
373 Huron St.
1929

MARY LINDSAY, *Assistant in Supply Store*
208 Bernard Ave.
1925

WILLIAM MARSDEN, *Supt. of Grounds*
University Campus
1925

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

OLGA ALICE MILLER, *Acting Assistant Registrar*
6 Victoria Apts., Queen's Ave.
B.A., 1928. 1933

F. W. PYE, *Instrument Maker*
R. R. No. 3, London
1924

GERTRUDE SMITH, *Bookkeeper*
30 Evergreen Ave.
1931

ELSIE SUMNER, *Assistant in Library*
Ingersoll, Ont.
B.A., Toronto, 1931; B. Lib. Sc. *ibid*, 1932. 1932

ETHEL K. WALKER, *Accountant*
1080A Richmond St.
1924

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

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

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

ELAINE WOODROW, *Secretary to the Registrar*
181 Cromwell St.
B.A., 1932. 1932

GENERAL INFORMATION

ORGANIZATION

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

HISTORY

Western University, through the efforts of the Bishop of the Diocese of Huron of the Church of England in Canada, received its charter from the Legislature of the Province of Ontario in 1878. The first classes graduated in Arts and in Medicine in 1883.

The Faculty of Medicine has maintained an unbroken existence since it was first opened. Its history has been featured by two outstanding events: in 1912 it changed from a joint stock company to an integral Faculty of the University, under the direct control of the same Board of Governors as the rest of the institution; in 1921 it occupied its present buildings.

The Faculty of Arts, for financial reasons, was forced to close from 1885 to 1895. Revived in the latter year, the Faculty for some time, under most depressing circumstances, was compelled to struggle for its very existence, but in 1908 its charter was amended so that it became absolutely undenominational and was empowered to receive financial assistance from the City Council of London. Later the Province assumed part of the load of current expense when the student body had increased to such an extent that local finances could not possibly meet the demands. The Kingsmill property, north of the City of London, was bought in 1917; buildings were erected, and the center of activity for Arts was moved from downtown to the present location in 1924. The campus is an all-year beauty-spot of about 260 acres.

The Institute of Public Health was opened in 1912 in a building erected and equipped by the Government of the Province of Ontario and turned over to the University to "aid Medical Education and promote instructional and practical work in Public Health." It became the Faculty of Public Health of the University, the first independent Faculty of Public Health in the British Empire, in 1917.

The name of the University was changed from "Western" to "Western Ontario" by Act of the Provincial Legislature in 1923.

OBJECTIVES

The field of endeavor of the Arts Faculty of the University is primarily undergraduate instruction leading to a first degree. The purpose of this instruction is to produce personalities of positive value in their life environments. The ideas that should inform this process have been so strikingly stated recently by one of the leaders of educational thought on this continent that they may well be quoted if one would picture adequately the motives that inspire the whole policy of this University.

"The chief needs of public service are five very simple ones: honesty, courage, common sense, knowledge and vision. The character-building forces of the nation—the home, the school, the church, the college—must be depended upon to provide the honesty and the courage. Nature, and nature alone, can furnish the common sense. To honesty, courage and common sense, the University can and should add knowledge and vision."

"The task of the college is, or should be, reasonably definite and well understood. It is to take the youth at about the age when in ancient Rome he put on the *toga virilis* and offer him for three or four years opportunity for carefully directed and supervised study in some part or in many parts of the field of liberal arts and sciences. The purpose of this carefully supervised and directed training is to give him the benefit of his rich human inheritance, so far as that may be practicable, and thereby better to prepare him for such specific task as may await him in the years of mature life. The old days when the substance of this inheritance could be transmitted through a few carefully chosen and prescribed subjects of study have gone forever. They have gone, not because those studies were not excellent in their time, but rather because times have changed and the human inheritance has taken on a more many-sided and richer form than it once was known to have. Nature and its study have offered new and splendid vistas to both knowledge and imagination. The creative arts have unfolded themselves in striking fashion for a century past as educational instrumentalities of highest value. The structure and underlying principles of the social and political order, first examined and interpreted in classic fashion by Aristotle, have now taken on many new forms and guises, each with its own appeal and its own capacity for usefulness.

It is for reasons such as these that the task of the college faculty has become more difficult than ever before, since it must, within a very limited time and for youths from all sorts and conditions of home, family and school background and environment, offer that opportunity to understand and to grasp the rich human inheritance which it is the first business of the college to transmit."

PHYSICAL EXAMINATIONS

A physical examination by practising physicians, under the supervision of the Department of Physical Education, is required for students, men and women, of all years. Physical examinations will be made by appointment during registration week. Students who have registered and who have not been examined during the prescribed period will be required to pay $1.00 for late examination.

No medical fees will be paid from the funds of the Department of Physical Education unless the obligation has been sanctioned in advance by the Director of Physical Education or the department physicians.

STUDENT HEALTH INSURANCE

The purpose of this insurance scheme is to protect as far as possible the student who may be so unfortunate as to meet with a serious accident or a prolonged illness which may spoil his year or even jeopardize his college course. It is also a part of the plan to maintain the health and efficiency of the student body. It was designed and is operated solely for the benefit of the students. As the student body is not a corporation and cannot make a legal contract, the University has acted in this respect and at the same time has assumed overhead costs so far as the students are concerned. In providing this insurance scheme which allows for the payment of claims to a maximum of $75.00 for one student, and in assisting in its administration, the University does not assume any responsibility directly or indirectly for claims that may arise. This responsibility is borne entirely by the Assurance Company which takes upon itself the risk involved.

For the protection, however, of students engaged in competitive athletics the Athletic Association pays the Assurance Company an additional premium and then prepares a list of students for whom special protection is provided to a maximum of $150.00 each.

Students resident in London and St. Thomas, if registered in the affiliated colleges, may have the same privilege.

THE LIBRARIES

The general library of the University occupies the new Lawson Memorial Library building, erected in 1934, connected by a tunnel with the main administration building and facing west upon the Mall. The library has reading rooms with seating capacity of upwards of 300, besides which there are fifty carrels in the book-stacks for the use of graduate students and others doing advanced work. The capacity of the stacks is in the neighborhood of 200,000 volumes, these stacks being separated by fire-proof walls from other portions of the library building.

The general library contains more than 100,000 volumes. The nucleus of the collection was the private library of the late John Davis Barnett which was presented to the University in 1918. This collection was exceedingly rich in rare and uncommon works and judicious purchases which have been made in the years since 1918 have resulted in the building up of an excellent working collection of books. All students entering the University receive a term of instruction in the use of the library.

Apart from their general utility to faculty and students the book collections are rich and varied in a number of fields. The collection of books relating to Shakespeare is one of the most extensive in Canada. The Canadian and American history and the travel sections are well equipped for purposes of advanced study. In art, music, the history of religion, and classics there are also well-developed portions of the library.

The library of the Medical Faculty, housed in the Medical School, contains about 20,000 volumes, its collection of bound scientific journals being one of the best in Canada. In the Institute of Public Health there is also maintained a working collection of books for the use of students and faculty.

In addition to the several University libraries students have access to the resources of the London Public Library and, under certain conditions, to other libraries of a semi-public character in the city.

DEGREES

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

The degrees at present conferred by the University are:

1. Honorary Degrees: *Doctor of Divinity; Doctor of Science; Doctor of Laws.

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

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

FACULTY OF ARTS

Faculty Council

Chairman,	THE PRESIDENT
Vice-Chairman,	To be appointed.
Secretary,	THE ASSOCIATE REGISTRAR

DEAN K. P. R. NEVILLE,	*Faculty of University College*
PROFESSOR F. LANDON,	*Faculty of University College*
PRINCIPAL T. A. MACDONALD,	*Faculty of Assumption College*
REV. V. J. GUINAN,	*Faculty of Assumption College*
M. M. St. ANNE,	*Faculty of Ursuline College*
RT. REV. A. P. MAHONEY,	*Faculty of Ursuline College*
DEAN W. C. FROATS,	*Faculty of Waterloo College*
PROFESSOR O. F. BALE,	*Faculty of Waterloo College*
PRINCIPAL C. C. WALLER,	*Faculty of Huron College*
PRINCIPAL P. S. DOBSON,	*Faculty of Alma College*

Officers of Administration

University College

(London, Ontario)

Dean

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

Secretary

LLOYD W. SIPHERD, M.B.A.

Director of Summer School and Extramural Department

H. R. KINGSTON, PH.D., F.R.A.S.

Representative on the University Library Board

W. F. TAMBLYN, PH.D.

Representative on the Athletic Board

N. C. HART, M.A.

Representatives on the University Senate

DEAN K. P. R. NEVILLE, *ex officio*

R. C. DEARLE, PH.D.

For Officers of Instruction, see pp. 22-34.

Alma College

(St. Thomas, Ontario)

Principal

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

Dean of Residence

MRS. GEORGE J. BLEWETT, B.A.

For Officers of Instruction, see pp. 22-34.

Assumption College

(Sandwich, Ontario)

Principal

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

Registrar

REV. V. J. GUINAN, M.A.

Bursar

REV. M. J. RYAN.

For Officers of Instruction, see pp. 22-34.

Huron College

(London, Ontario)

Principal

REV. CHARLES CAMERON WALLER, M.A., D.D.

Dean of Residence

REV. JAMES H. CRAIG, M.A.

Treasurer

J. K. H. POPE.

Secretary to the Principal

DORIS AUDEN.

For Officers of Instruction, see pp. 22-34.

Ursuline College

(London, Ontario)

Dean and Registrar

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

For Officers of Instruction, see pp. 22-34.

Waterloo College

(Waterloo, Ontario)

President

REV. FREDERICK B. CLAUSEN, D.D.

Dean

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

Registrar

ROY J. E. HIRTLE, M.SC.

Bursar

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

Librarian

REV. H. HENKEL.

Dean of Women

HANNAH MARIE HAUG, M.A.

For Officers of Instruction, see pp. 22-34.

FACULTY OF ARTS

Officers of Instruction

Session 1933-1934

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

ELNORA EVELYN KELLY ALBRIGHT (C), *Assistant Professor of English*
924 Colborne St.

B.A., Toronto, 1912; Barrister-at-Law, Alberta, 1919; M.A., Chicago, 1926. 1920

RAY LEROI ALLEN (C), *Associate Professor of Physics*
203 Sherwood Ave.

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

RONALD ALEXANDER ALLEN (C), *Associate Professor of German*
510 St. George St.

B.A., Toronto, 1921; M.A., *ibid.*, 1922; Ph.D., Chicago, 1928. 1923

*REV. FRANK ANDERSON (H), *Professor of Biblical Greek*
26 Grosvenor St.

B.A., Oxon., 1894; M.A., *ibid.*, 1899; B.D., 1922; D.D., Oxon., 1924. 1920

HENRY WILLIAM AUDEN (C), *Professor of Classics*
236 St. George St.

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

OSCAR FERDINAND BALE (W), *Assistant Professor of Classics*

B.A., Concordia, 1922; C.T., *ibid.*, 1926; M.A., Michigan, 1929. 1932

MELVIN EUGENE BASSETT (C), *Professor of Romance Languages*
42 Marley Place

B.A., Michigan, 1903; M.A., Princeton, 1922; Diplome d'Etudes Universitaires, Bordeaux, 1923. 1927

HELEN IRENE BATTLE (C), *Assistant Professor of Zoology*
132 Mamelon St.

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

HELEN BERENICE BERDAN (C), *Assistant Professor of Botany*
542 Waterloo St.

B.A., 1924; M.A., 1926. 1924

LORNA BIRTLES (C), *Instructor in Secretarial Science*
772 Colborne St.

Kensington College, 1923. 1928

*On leave of absence, 1933-34.

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

REV. MAXIME AMBROSE BRISSON (U),
Professor of Religious Knowledge
St. Peter's Seminary
1923

JAMES WENDEL BURNS (C), *Associate Professor of Chemistry*
904 William St.
B.Sc., New Brunswick, 1916; M.Sc., Queen's, 1921; F.C.I.C., 1924. 1922

CATHERINE CAMPBELL (C), *Instructor in Library Science*
424 St. George St.
B.A., 1922. 1923

REV. FREDERICK B. CLAUSEN (W),
Professor of Religious Knowledge
D.D., 1932 1930

WILLIAM EDWIN COLLIN (C),
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314 Wharncliffe Rd., N.
L. ès L., Toulouse, 1922; M.A., 1925. 1923

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

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

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

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

REV. PERRY S. DOBSON (Alma), *Professor of Latin*
B.A., Oxon., 1901; M.A., *ibid.*, 1904; D.D., Wesleyan, 1920.
Principal of Alma College. 1925

REV. CHARLES PATRICK DONOVAN (A), *Professor of Classics*
B.A., Toronto, 1914. 1932

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914 Colborne St.
B.A., Queen's, 1910; M.A., Yale, 1911; Ph.D., Toronto, 1927. 1920

ANDREW MONTAGUE ISAACSON ALEXANDER WILLIAM DURNFORD (C), *Instructor in Physics*
283 Steele St.
B.A., 1925; M.A., 1926; Ph.D., Toronto, 1931. 1930

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

MOTHER M. FELICITAS (U), *Instructor in German*
Brescia Hall
1932

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

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

REV. BENJAMIN NICHOLAS FORNER (A), *Professor of History*
B.A., Toronto, 1924. 1926

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

ALICE WILLENA FOSTER (C), *Assistant Professor of Physics*
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Brescia Hall
B.A., Queen's, 1913; M.A., Toronto, 1931. 1931

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

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

JOHN ABERDEEN GUNTON (C), *Professor of Chemistry*
301 Huron St.
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HELEN HARDY (Alma), *Instructor in English*
B.A., 1925. 1927

NELSON COLLINS HART (C), *Professor of Botany*
959 Maitland St.
B.A., Toronto, 1915; M.A., *ibid.*, 1916; F.A.G.S., 1931, F.A.A.A.S., 1933. 1919

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

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

PHILIP HOWARD HENSEL (C),
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200 St. James St.
B.S., Northeastern, 1921; B.B.A., Boston, 1926; M.B.A., Harvard, 1928. 1928

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

REV. SEWARD WILLIAM HIRTLE (W),
Associate Professor of Classics
B.A., Roanoke, 1915. 1925

GILBERT RICHARD HORNE (A),
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B.A., 1931. 1931

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B.A., Acadia, 1925; M.A., Harvard, 1928. 1929

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

HERBERT EDWARD JENKIN (C),
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245 Wharncliffe Rd., N.
B.A., London, Kings, 1913. 1929

HERBERT KARL KALBFLEISCH (C), *Instructor in German*
569 Cheapside St.
B.A., 1928; M.A.. New York University, 1930. 1931

*On leave of absence, 1933-34.

MARGARET GWENDOLINE KEYES (C),
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First Class Secretarial Diploma, Kensington College, 1921. 1930

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

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

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

FRED LANDON (C), *Associate Professor of History*
846 Hellmuth Ave.
B.A., 1906; M.A., 1919; F.R.S.C., 1929; University Librarian, 1923. 1917

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

ROY BALMER LIDDY (C),
Professor of Philosophy and Psychology
340 St. James St.
B.A., Toronto, 1911; M.A., *ibid.*, 1912; B.D., Victoria, 1914; Ph.D., Toronto, 1915; LL.D., Mount Allison, 1931. 1931

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

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

GORDON RICHARD MAGEE (C),
Assistant Professor of Mathematics
427 William St.
B.A., 1925; M.S., Chicago, 1926; Ph.D. *ibid.*, 1933. 1927

RIGHT REV. ANDREW PARNELL MAHONEY (U),
Professor of Sacred Scripture
St. Peter's Seminary
1920

STAR FLOYD MAINE (C), *Associate Professor of History*
257 Huron St.
B.A., 1917; B.D., Victoria, 1919; M.A., Chicago, 1922; Ph.D., *ibid.*, 1932. 1926

MOTHER M. MARIE (U), *Instructor in French*
Brescia Hall
B.A., 1925; M.A., 1928. 1925

REV. THOMAS JOSEPH MCCARTHY (U), *Instructor in English*
St. Peter's Seminary
B.A., 1925; M.A., 1933; S.T.B. and S.T.L., Angelicum, Rome, 1930. S.T.D., *ibid*, 1931. 1933

VERY REV. THOMAS ALOYSIUS MACDONALD (A), *Professor of Science*
B.A., Toronto, 1924; M.A., Columbia, 1929; Principal, Assumption College, 1932. 1924

BARBARA MACDOUGAL (Alma), *Instructor in Physical Education*
Dip. Phys. Ed., McGill, 1929. 1932

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

ISABEL MCLEAN (Alma), *Instructor in Public Speaking*
B.L.I., Emerson, 1932. 1932

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

MOTHER M. MOIRA (U), *Instructor in Mathematics*
Brescia Hall
B.A., 1931. 1933

FRANCES KATHLEEN MONTGOMERY (C), *Instructor in Romance Languages*
817 Maitland St.
B.A., 1927; M.A., 1928; Dr. Univ. Paris, 1930. 1930

NORMAN JOSEPH MURPHY (A), *Instructor in English*
B.A., 1926. 1931

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R. R. No. 3, London
B.A., Queen's, 1896; M.A., *ibid.*, 1897; B.A., Harvard, 1898; M.A., *ibid.*, 1899; Ph.D., Cornell, 1901; F.A.G.S., 1921; Dean of University College, 1927. 1908

WILLIAM BERNARD O'TOOLE (A), *Professor of Classics*
B.A., Toronto, 1924. 1925

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856 Hellmuth Ave.
B.A., Queen's, 1888; M.A., *ibid.*, 1895. 1906

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M.A., Oxon., 1922. 1926

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REV. JOHN HERMAN POCOCK (U), *Professor of Philosophy*
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239 Hale St.
B.A., 1925; M.A., 1928. 1928

HELEN REESE REESE (W), *Professor of French*
B.A., Wilson College, 1924; M.A., Johns Hopkins, 1926;
Certificat d'études françaises, Grenoble, 1927; Ph.D., Johns Hopkins, 1931. 1932

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1240 Richmond St.
B.S.A., Toronto, 1916; M.S., Wisconsin, 1924. 1926

ALBERT DUNCAN ROBERTSON (C), *Professor of Zoology*
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B.A., Toronto, 1910; M.A., *ibid.*, 1927; F.A.A.A.S., 1920. 1915

DONALD OAKLEY ROBSON (C), *Instructor in Classics*
4 Ardagh Apts.
B.A., Toronto, 1928; M.A., *ibid.*, 1929; Ph.D., *ibid.*, 1932. 1930

ELIZABETH ROSS (Alma), *Instructor in Religious Education*
B.A., Mount Allison, 1928. 1930

JOHN WILLIAM RUSSELL (C), *Professor of Geology*
230 Sherwood Ave.
B.A., McMaster, 1895; M.A., *ibid.*, 1899. 1920

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

MOTHER M. ST. JAMES (U), *Instructor in English and History*
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VEN. ARCHDEACON GEORGE BLOOMFIELD SAGE (H, C),
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225 Wharncliffe Rd., N.
B.A., Trinity, 1880; B.D., *ibid.*, 1887; M.A., *ibid.*, 1910; D.D., 1909; LL.D., 1929. 1895

REV. GEORGE SANDROCK (W),
Professor of Hebrew, Biblical Greek and Latin
1931

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

LLOYD WOODS SIPHERD (C),
Assistant Professor of Business Administration
5 Lord Dufferin Apts.
B.A., Simpson, 1925; M.B.A., Harvard, 1929. 1929

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

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

JAMES ALBERT SPENCELEY (C), *Professor of English*
16 Alma St.
B.A., Toronto, 1905; M.A., *ibid.*, 1909; M.A., Harvard, 1920. 1921

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

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

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

HARTLEY MUNRO THOMAS (C), *Instructor in History*
926 Colborne St.
B.A., Queen's, 1920; M.A., Harvard, 1923; Ph.D., *ibid.*, 1933. 1931

WALTER ALBERT THOMPSON (C),
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565 Grosvenor St.
B.A., Drury, 1928; M.B.A., Harvard, 1930. 1930

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

ADA DOROTHY TURVILLE (C),
Assistant Professor of Romance Languages
Oxford St. West
B.A., 1917; M.A., Columbia, 1921; Ph.D., *ibid.*, 1925; certificato della R. Università di Firenze, 1927; Acting Adviser to Women, 1933. 1924

LOUISE KATHLEEN TWIETMEYER (W),
Instructor in French and German
B.A., 1931. 1931

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

JEAN ISABEL WALKER (C), *Instructor in Public Speaking*
26 Hayman Court
L.C.M. 1920

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

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

BEATRICE WINIFRED WELLING (C),
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1004 Waterloo St.
B.A., New Brunswick, 1909; M.A., Radcliffe, 1912; B.Sc., Simmons, 1916. 1925

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

DOUGLAS JAMES WILSON (C), *Instructor in Psychology*
1043 Patricia St.
B.A., Toronto, 1927; M.A., *ibid.*, 1928; Ph.D., *ibid.*, 1933. 1932

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181 Cromwell St.
B.A., 1930. 1931

ARTHUR WOODS (C), *Associate Professor of Mathematics*
10 Lord Dufferin Apts.
B.A., Queen's, 1914; M.A., *ibid.*, 1915. 1920

Sessional Appointments

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

REV. REGINALD THOMAS APPLEYARD (H),
Lecturer in Religious Knowledge
B.A., 1926; B.D., 1932. 1933

REV. JAMES VINCENT BURKE (A),
Lecturer in English and History
B.A., Toronto, 1924. 1926

DANIEL VINCENT BURNS (A), *Lecturer in Mathematics*
B.A., Toronto, 1933. 1933

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

LOUISE LEGGOTT COLLIN (C), *Assistant in English*
314 Wharncliffe Rd., N.
B.A., 1928. 1929

REV. JAMES H. CRAIG (H),
Lecturer in Latin and Christian Ethics
B.A., British Columbia, 1925; M.A., Toronto, 1930; B.D., Trinity, 1932. 1932

HUGH J. CREECH (C), *Demonstrator in Chemistry*
291 Cheapside St.
B.A., 1933. 1933

HORACE DELUCA (C), *Demonstrator in Chemistry*
446 King St.
B.A., 1933. 1933

ELEANOR CROYSDALE DOHERTY (C), *Lecturer in English*
801 Talbot St.
B.A., 1926; M.A., Toronto, 1929; M.A., Radcliffe, 1930. 1930

MABEL DUNHAM (W), *Lecturer in Library Science*
B.A., Toronto, 1910. 1930

MALCOLM FERGUSON (C), *Demonstrator in Zoology*
R. R. No. 6, St. Thomas
B.A., 1932. 1932

VERNON FRANKS (C), *Demonstrator in Applied Biology*
195 Duchess Ave.
B.A., 1932. 1932

REV. MERWIN ANSLEY GARLAND (C), *Assistant in History*
Ilderton, Ont.
B.A., 1925; M.A., 1927. 1931

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220 St. George St.
B.A., Acadia, 1932. 1932

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

REV. HAROLD BURTON HENDERSHOT (C),
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B.A., Toronto, 1927; M.A., *ibid.*, 1928; Ph.D., Edinburgh, 1933. 1933

*HELEN REBECCA HOBBS (U), *Assistant in Physical Training*
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Dip. Phys. Ed., McGill, 1931. 1931

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

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181 St. James St.
B.A., 1915; M.A., 1916. 1925

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B.A., Toronto, 1929. 1931

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205 Cheapside St.
1924

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

VICTOR IGNATIUS MCINTYRE (A), *Lecturer in Philosophy*
B.A., 1926; M.A., Toronto, 1931. 1931

MARGARET MACKENZIE (C), *Demonstrator in Zoology*
33 St. Andrew St.
B.A., 1933. 1933

*First term, 1933-34.

JAMES A. MCLEOD (C), *Demonstrator in Zoology*
195 Huron St.
B.A., Manitoba, 1931; M.Sc. *ibid.*, 1933. 1933

DONALD MACVICAR (C), *Demonstrator in Physics*
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B.A., 1932. 1932

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B.A., Toronto, 1923; M.A., *ibid.*, 1924. 1933

REV. JOSEPH STANLEY MURPHY (A), *Lecturer in English*
B.A., 1928. 1932

LEOLA NEAL (C), *Assistant in Philosophy and Psychology*
321 Emery St.
B.A., 1933. 1933

JEAN THOMPSON NEVILLE (C), *Lecturer in English*
R. R. No. 3, London
B.A., 1910; M.A., 1923. 1921

NORMAN POST (C), *Demonstrator in Zoology*
42 Terrace St.
B.A., 1931. 1931

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4 Ardagh Apts.
B.A., Toronto, 1923; M.A., Bryn Mawr, 1925. 1931

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

JOHN PETER RUTH (A), *Lecturer in Mathematics*
B.A., Toronto, 1930. 1933

RUTH ELZABETH SHARPE (C), *Demonstrator in Botany*
1092 Talbot St.
B.A., Queens, 1933. 1933

ENID MARY SMEDLEY (C), *Demonstrator in Zoology*
614 Wellington St.
B.Sc., Manitoba, 1931; M.Sc., *ibid.*, 1932. 1932

HELEN ELIZABETH SMYTH (C), *Lecturer in English and Sociology*
157 Ridout St., S.
B.A., Michigan, 1928. 1932

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

JAMES SPEIGHT (C), *Demonstrator in Physics*
200 Victoria St.
B.A., 1932. 1932

JEAN ISABEL STEWART (C), *Demonstrator in Chemistry*
871 Wellington St.
B.A., 1932. 1932

REV. KENNETH TAYLOR (H), *Lecturer in Religious Education*
1357 Dundas St.
B.A., Queen's 1920; B.A., Oxon., 1923; M.A., *ibid.*, 1926. 1932

WILSON TOTTEN (C), *Demonstrator in Physics*
14 Brighton St.
B.A., 1933. 1933

GARNET ALEXANDER WOONTON (C), *Demonstrator in Physics*
714 Maitland St.
B.A., 1925; M.A., 1931. 1931

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

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

REGULATIONS

MATRICULATION

Subjects: Pass Junior.

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

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

Any two of:

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

or

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

or

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

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

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

Subjects: Honour.

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

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

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

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

Percentages: Pass Junior.

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

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

Percentages: Honour.

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

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

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

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

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

Such credit in a subject will also be accepted by the University as entitling the candidate to exemption from the Pass work of the First Year in that subject, wherever the subject is included in a Junior group, except in the case of the Sciences and History.

Second Class Honours in Botany, Chemistry, Physics or Zoology will secure the student credit for Botany 10, Chemistry 10, Physics 10, Zoology 10 respectively in Junior Group 1.

Third Class Honours in Botany and Zoology will exempt a student from Biological Science in Junior Groups 2 and 3, Third Class Honours in Physics and in Chemistry from Physical Science in Junior Groups 2 and 3.

A candidate who obtains at least forty per cent. in a paper of the Honour Matriculation examination (with the exception of Modern History, Physics, Zoology and Botany) will, if he so desires, receive credit for that paper at the Pass Matriculation examination; a candidate who obtains at least forty per cent. in Modern History of Honour Matriculation, will, if he so desires, receive credit for Canadian History of Pass Matriculation, provided he submits a certificate of standing in Lower School Canadian History.

EQUIVALENT EXAMINATIONS

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

Province of Ontario: The examinations of Middle and Upper School.

Province of Quebec: The High School Leaving examination; Intermediate School Diploma.

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

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

Province of Manitoba: Grade XI and Grade XII examinations.

Province of British Columbia: Junior and Senior Matriculation examinations.

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

Province of Alberta: Grade XI and Grade XII examinations.

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

Newfoundland: Junior Matriculation examinations.

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

A candidate applying for admission on any of the above certificates must submit an official statement of the marks on which the certificates were awarded.

ADMISSION

Candidates seeking admission on Middle and Upper School Certificates of the Province of Ontario, must present the official evidence of their academic standing to the Registrar, at least two weeks before the opening of the session they wish to attend.

General Course.

Candidates will be admitted to the General Course in Arts if they present certificates of complete Pass Junior Matriculation or the equivalent as outlined above, page 35.

Candidates presenting Upper School Certificates or the equivalent in at least four non-Science subjects (not papers), together with complete Pass Junior Matriculation, will receive sufficient credit to enable them to reduce the normal length of their courses by one year.

Honour Courses.

Students who have completed the Junior Group in which they first register may proceed to a degree in the Senior Group of the General Course, see page 66, or may enter the second year of an Honour course for admission to which they have the qualifications detailed in connection with the several courses on pages 70-86.

ADVANCED STANDING

From Collegiates.

Candidates presenting Upper School Certificates in Ancient or Modern Languages or Mathematics or Sciences, or the recognized equivalents of such certificates, may be credited with the corresponding subjects in the Junior Groups.

From Universities.

All applications for advanced standing, except on certificates indicated above, must be accompanied by official certificates from the institution where previous work has been done, and be presented to the Registrar not later than September 11. These official documents must include certificate of honourable dismissal from the institution last attended. No student may register in the University of Western Ontario if he may not re-register in the institution from which he wishes to transfer.

ADULT SPECIAL STUDENTS

Students who are over twenty-one years of age, though they may not be able to present qualifications for admission to candidacy for degrees, may be admitted to classes in the Faculty of Arts of the University, if, in the opinion of the professors in charge, they are qualified to pursue satisfactorily the courses chosen. Such special students must satisfy the

professors in regard to regular attendance and attention to the work of their classes. They will not be allowed to advance from year to year in a department without taking the regular examinations.

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

LENGTH OF COURSES

The General Courses are four-year courses from Pass Junior Matriculation, but they can be completed in three years of satisfactory work by a student who presents a First Class Certificate obtained at the examinations of the Department of Education of the Province of Ontario. The Honour Courses, except as mentioned below, are five-year courses from complete Pass Junior Matriculation or four-year courses from complete Pass Junior Matriculation and Honour Matriculation in four subjects. The Honour Courses in Philosophy, except in University College, require four years from complete Pass Junior Matriculation (see page 83).

EXAMINATIONS

General Courses.

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

Students in the General Courses will be ranked in order of merit in each course in six grades, A, B, C, D, E, F. The minimum for Grade A is 75 per cent. of the marks obtainable; for Grade B, 66 per cent.; for Grade C, 60 per cent.; for Grade D, the minimum passing grade, 50 per cent. A mark that falls in Class E, 40 to 49 per cent., entitles the student to a supplemental, subject to the regulations governing supplementals (see page 41). Grade F, less than 40 per cent., indicates a total failure; this means that the course has to be repeated in class.

No student will be admitted to the degree of Bachelor of Arts in the General Course who has not obtained grade D on all the prescribed and elective work of his course and who has not obtained grade C on one-half the credits required for the Senior Group, and grade C on one-half the credits of his senior year.

Honour Courses.

The regular examinations for the Honour Courses will be held in May; but where an Honour Course or a definite portion of an Honour Course has been completed by the end of the first term the instructor may set a final examination on that portion of the work. This examination is to be held during the regular January examination period. Third and fourth year Honour Classes may continue without interruption during the mid-year examination period if examinations are not set.

Candidates in the Honour Courses in any department will be ranked in order of merit in that department in four classes; those obtaining 75 per cent. or over of the total number of marks will be placed in Class I; those obtaining 66 per cent. and less than 75 per cent. will be placed in Class II; those who obtain 60 per cent. and less than 66 per cent. will be placed in Class III; those who obtain 50 per cent., the minimum for pass, but less than 60 per cent., will be placed in Class IV; but an average of Class IV over all the honour subjects of the fourth year will entitle the candidate to a General Course and not an Honour Degree. (See page 42).

Comprehensive Examinations.

Various departments of the University College of Arts have introduced comprehensive examinations for Honour students. These examinations, partly oral and partly written, are given at the end of the senior year and cover the broader aspects of the student's entire field. They are additional to the course examinations.

Students entering henceforth upon Honour Courses are admonished that the end and aim of their college work is not simply the creditable passing of courses term after term, but the gradual acquisition of a broader and deeper acquaintance with their particular chosen fields of knowledge and an intelligent appreciation of their inter-relations and bearings upon allied fields and upon higher culture in general.

Term Work.

In all subjects of the General Course, except the sciences, the ratio of term-work marks to examination marks is as 50 to 100. To pass, a student must obtain 50 per cent. on the whole of a subject, with 50 per cent. in term work and 50 per cent. in examinations. In the sciences the ratio of term-work marks to examination marks is determined by the teaching staff in each subject.

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

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

SUPPLEMENTALS

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

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

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

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

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

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

SPECIAL EXAMINATIONS

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

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

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

A student who fails to appear for a paper at the time set in the examination timetable will not be allowed to write on the examination paper thus missed, but will be required to pay a special fee and to write a special examination at such time as may be determined by the Dean in consultation with the department involved.

FAILURES

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

General Course.

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

A student may repeat no single course oftener than once.

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

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

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

A student who has not been granted complete standing in a Junior Group may not take any work in the Senior Group (Page 66).

Honour Course.

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

A candidate who competes for Honours at the examination for the degree of Bachelor of Arts and fails to obtain the requisite per cent. (60) to entitle him to be classed in Honours may, on the recommendation of the Committee on Academic Stand-

ing, be awarded a degree in the General Course, it being the option of the candidate to compete again at a subsequent examination for the degree in Honours.

A student in the third or fourth year, whether in the General or an Honour Course, who shows an unsatisfactory knowledge of spoken or written English, will have to repeat English 21 or similar course and remove his condition.

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

ATTENDANCE AT LECTURES

First and second year students who have attended less than 80 per cent. of the lectures in a course **for any term** shall be debarred from taking the regular examinations on that course.

A student to be eligible for a degree, must have attended classes in this University for two academic years or one academic year and two summer schools or six summer schools.

APPEALS

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

CONDUCT

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

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

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

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

GENERAL

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

Preparatory Greek is offered as an option in Junior Groups 2 and 3 for students who present for entrance complete Pass Junior Matriculation without Greek. Credit towards a degree for this preparatory Greek will not be given unless it is supplemented by at least two other years of Greek, either New Testament or Classical.

A course that is an optional course need not be given unless it is elected by at least five students.

A student will not be allowed to take more than three credits in excess of the credits required for the year of his course for which he is registered, except on permission of the Academic Standing Committee. For any extra credits in excess of three permitted by action of the Academic Standing Committee the student will be charged an extra tuition fee of $8.00 per credit, together with such laboratory and caution fees as pertain to the extra course.

THE EXTRAMURAL DEPARTMENT

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

An extramural course is one which a student may pursue without attendance upon classes (except as provided below), but in which he must write the examinations at the periods prescribed for resident students. The conditions for admission to such courses are the same as those required for admission to the intramural general courses (see page 38).

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

No student may take intramural and extramural work concurrently.

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

(a) Complementary Extramural Courses

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

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

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

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

(b) Pure Extramural Courses

Pure extramural courses are independent of attendance on classes. Courses in the Sciences (including Psychology), in the elements of any foreign language, and all honour courses not also given as pass courses, may not be included among these courses. Students pursuing pure extramural courses are subject to the same regulations in regard to exercises, essays, examinations, etc., as those pursuing complementary extramural courses.

SUMMER SCHOOL

University College offers a summer session which opens in the first or second week in July and continues thereafter for six weeks.

The Summer School is organized especially in the interest of:

I. Teachers who wish to improve their scholarship;

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

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

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

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

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

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

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

A student who attends six summer sessions and obtains twenty-four credits for work taken therein will be considered to have satisfied the residence requirement demanded for graduation from this University and, if possessed of proper entrance qualifications, may proceed to the degree of B.A. in an extramural course without further attendance. Attendance on classes conducted by the Extension Department (see below) may be counted to make up this number of credits.

The subjects offered in the Summer School are taken from the courses offered in the winter session to the General Course students and from the second year of the Honour Courses leading to Specialist Certificates of the Department of Education of Ontario. No work of the third and fourth years of any

Honour Course will be offered in Summer School unless it is also part of the General Course.

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

EXTENSION DEPARTMENT

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

THE M.A. DEGREE

Academic Qualifications.

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

Graduates in Arts of this University, who in the work of the last two years of the General Course (the Senior Group) obtained 66 per cent. of the aggregate possible marks, who did not fall below 60 per cent. in more than six credits, may become candidates for the degree of Master of Arts, but they cannot hope to obtain the degree in less than two years of graduate study.

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

Each candidate must register not later than October 3rd; the candidate shall then be placed, by the Council of the Faculty of Arts, under the guidance of two of the professors in

whose departments the work to be taken lies, who shall be responsible for conducting the examination and for reporting to the Faculty upon the result of the examination. The examination shall be given during the annual May examinations.

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

Standards. All candidates must take a prescribed course, pass an examination therein and obtain at least Second Class Honours (66 per cent.) in it.

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

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

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

Each candidate must submit, through the Registrar, to the committee appointed to supervise his work, an outline of his proposed thesis, not later than January 7th.

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

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

THE LL.B. DEGREE

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

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

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

(c) Examinations taken on a course of reading in each of the following: Domestic Relations, Medical Jurisprudence, Theory of Obligations, Corporations, (see p. 137).

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

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

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

MEDALS, SCHOLARSHIPS AND PRIZES

I. Undergraduate

UNIVERSITY

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

Applied Biology;
Botany;
Business Administration;
Chemistry;
Economic and Political Science;
English;
French;
Geology;
German;
Greek;
History;
Latin;
Mathematics;
Philosophy and Psychology;
Physics;
Spanish;
Zoology.

Governor - General's Medal: Fourth Year, General Course I.

Typographical Union Medal: Second Year English Composition (English 21).

UNIVERSITY COLLEGE

Scholarships: Fifty Dollars each, for General Proficiency in the following:

(a) Junior Group 1.

(b) Junior Group 2 (the Jewell Scholarship, given in memory of the late Francis G. Jewell, C.A., Auditor of the University).

(c) Junior Group 3 (W. J. Roche Scholarship—the gift of the Hon. W. J. Roche, M.D., LL.D., former Chancellor of the University).

Scholarships: Seventy-five Dollars each for the following:

SECOND YEAR HONOUR COURSES in the Departments of:

Biology (including B.A., M.D.);
Business Administration;
Business and Secretarial Science;
Chemistry;
Classics;
English and French;
English and German or Spanish;
French and German or Spanish;
French and Latin;
Geology;
Romance Languages.

THIRD YEAR HONOUR COURSES in the Departments of:

Biology (including B.A., M.D.);
Business Administration;
Chemistry;
Classics;
English and French;
English and German or Spanish;
French and German or Spanish;
Geology;
Mathematics;
Romance Languages.

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

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

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

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

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

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

I.O.D.E. Municipal Chapter Scholarship, Seventy-five dollars; awarded in the autumn to the student registered in the Applied Biology Option who stood highest in Third Year Honour Biology the preceding session.

Khaki University Scholarship: Seventy-five Dollars; for the highest average obtained by an ex-service man, or the son or daughter of an ex-service man, in any year of any course in University College of Arts.

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

James MacKay Scholarship: Twenty-five Dollars; General Proficiency, open only to theological students of the Presbyterian Church.

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

W. W. Tamblyn Prize, Ten dollars; First Year Public Speaking (English 19).

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

Prizes, ten dollars each, in:

English 40, 42 or 48;
History 45, 46;
English 30;
French 30;
Philosophy 30;
English 20;
Latin 20;
French 20;
English 10;
Latin 10;
Mathematics 10, 12;
Botany 10;
Chemistry 10;
Physics 10;
Zoology 10.

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

Alpha Kappa Psi Medallion: A Medallion, the gift of the Alpha Kappa Psi Fraternity, will be awarded annually to the student pursuing a degree in Business Administration, who, upon completion of his Junior Year, has attained the highest two-year average in scholarship. Only male students who have had all their training in this University are eligible for this award.

Alpha Kappa Psi Diplomas: Two Diplomas, the gift of the Alpha Kappa Psi Fraternity, will be awarded annually to the Freshmen who stand highest in the Business Administration of Junior Group 2 and the Economics of Junior Group 2, respectively. Only male students will be eligible for these awards.

URSULINE COLLEGE

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

The Philip Pocock Inter-Year Scholarship for Day Students, $50.00.

WATERLOO COLLEGE

Potter Scholarship, Fifty dollars; General Proficiency, Second Year.

II. Graduate

The Rhodes Scholarships.

A Rhodes Scholarship is tenable at the University of Oxford and may be held for three years. Since, however, the majority of Rhodes Scholars obtain standing which enables them to take a degree in two years, appointments are made for two years in the first instance, and a Rhodes Scholar who may wish to remain for a third year will be expected to present a definite plan of study for that period satisfactory to his College and to the Rhodes Trustees.

Rhodes Scholars may be allowed, if the conditions are approved by their own College and by the Oxford Secretary to the Rhodes Trustees, either to postpone their third year, returning to Oxford for it after a period of work in their own countries, or to spend their third year in post-graduate work at any University of Great Britain, and in special cases at any University on the continent of Europe, the overseas Dominions, or in the United States, but not in the country of their origin.

The stipend of a Rhodes Scholarship is fixed at £400 per year. At most colleges, and for most men, this sum is not sufficient to meet a Rhodes Scholar's necessary expenses for term-time and vacations, and Scholars who can afford to supplement it by, say, £50 per year from their own resources, will find it advantageous to do so.

CONDITIONS OF ELIGIBILITY: A candidate to be eligible must:

1. Be a British subject, with at least five years' domicile in Canada and unmarried. He must have passed his nineteenth, but not his twenty-fifth birthday on October 1st of the year *for* which he is elected.

2. Have reached such a stage in his course at one of the Universities of Canada that he will have completed at least two years at the University in question by October 1st of the year *for* which he is elected.

   Candidates may apply either for the province in which they have their ordinary private domicile, home, or residence, or for any province in which they have received at least two years of their college education before applying.

In that section of the will in which he defined the general type of scholar he desired, Mr. Rhodes wrote as follows:

"My desire being that the students who shall be elected to the Scholarships shall not be merely bookworms, I direct that in the election of a student to a Scholarship regard shall be had to:

1. His literary and scholastic attainments;

2. His fondness for and success in manly outdoor sports such as cricket, football and the like;

3. His qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindliness, unselfishness and fellowship;

4. His exhibition during school days of moral force of character and of instincts to lead and to take an interest in his schoolmates, for those latter attributes will be likely in after life to guide him to esteem the performance of public duty his highest aim."

Full particulars can be obtained from Henry Borden, Esq., 320 Bay Street, Toronto, Ontario, Secretary of the Selection Committee for the Province of Ontario.

Each candidate for a Scholarship is required to make application to the Secretary of the Committee of Selection of the province in which he wishes to compete not later than November 10th. Application forms may be obtained from the Registrar's Office.

Daughters of the Empire Overseas Scholarship.

As part of their War Memorial the Imperial Order Daughters of the Empire offer annually in each province in Canada a scholarship for one year's post-graduate study in Britain. The value of the scholarship is $1,600.

These scholarships are subject to the following conditions:

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

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

3. Applications for this scholarship should be sent, before October 6th, 1934, to the Provincial Educational Secretary, I.O.D.E., Y.W.C.A. Building, Hamilton, Ontario, who will provide additional information about the scholarship.

University Women Federation Scholarship.

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

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

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

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

3. Theses, papers or reports of investigations, published or unpublished. These papers, letters, etc., submitted by the applicant, will be returned if postage is sent for that purpose. Confidential letters sent are kept.

The Committee cannot assume any responsibility for collecting testimonials for an applicant.

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

III. Matriculation

UNIVERSITY

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

Value: Three Hundred Dollars a year for four years.

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

Awarded to the candidate in either the Junior or Honour Matriculation examinations who, in the judgment of the Committee, best meets the purpose in view in the foundation of the Bursary. The candidate must be the son or daughter of a killed or totally disabled soldier, sailor, or member of the Air Force. The Bursary is tenable at any university in Ontario. If the holder of the Bursary chooses to attend University College of the University of Western Ontario, he or she will be granted exemption from tuition fees up to fifty dollars a year for four years.

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

This Bursary will next be awarded to a candidate from Ontario in 1935. Application must be made by March 1, 1935.

Leonard Scholarship.

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

Ontario Hockey Association Scholarship.

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

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

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

3. The marks on the candidate's six best papers only will be considered; minimum average for qualifying contestant, 66 per cent;

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

In making the award the following points will be considered:

1. Academic qualification;
2. Financial need (to be supported by affidavits);
3. Ontario Hockey Association rating as a clean, effective hockey player.

The award shall be made by a committee of three members who shall be the Registrar of the University, the chairman of the Scholarship Committee of the University and a nominee of the Ontario Hockey Association executive, who may or may not belong to the University. The winner of the scholarship will receive $100 in cash, one-half in October, the other half in February following: he will receive also $100 tuition for four years; total value of the scholarship $500. Special application forms for this scholarship should be obtained from the Registrar of the University on or before May 1, each year.

The Ontario Knights of Columbus Scholarships.

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

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

UNIVERSITY COLLEGE

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

Pass Junior Matriculation Scholarship

A scholarship of $100.00 will be awarded for highest standing on six papers of the Pass Junior Matriculation or Middle School examinations. These papers must be written in the June examination in which the candidates complete the standing necessary for entrance to the University. The successful candidate must obtain an average of 75 per cent. or over on the six papers on which the award is made. The winner will receive free tuition for two years; total value of scholarship, $300.00.

Honour Matriculation Scholarships

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

(a) English, Latin, Mathematics (Algebra and Geometry only), History and one foreign language;

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

(c) English, Mathematics (Algebra, Geometry, Trigonometry), History, a science and a language.

The winners will receive free tuition for four years in University College of Arts; total value of each scholarship, $500.00.

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

(a) English, Latin and Mathematics (Algebra and Geometry);

(b) French, German or Spanish, and Mathematics (Algebra and Geometry);

(c) English, French and German or Spanish;

(d) Mathematics (Algebra, Geometry and Trigonometry), Physics and two other papers;

(e) Biology, Physics, Chemistry and two other papers;

(f) Biology, English or Mathematics (Algebra, Geometry) and two other papers;

(g) Chemistry or Physics, English or Mathematics (Algebra, Geometry) and three other papers;

(h) Latin, French and German or Spanish or Greek;

(i) Classics and two other papers.

The winners of these scholarships will receive free tuition for two years in University College of Arts; total value of each scholarship, $250.00.

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

(a) Latin;

(b) Greek;

(c) English;

(d) Mathematics (Algebra, Geometry, Trigonometry);
(e) French;
(f) German;
(g) Biology;
(h) Two of History, Physics, Chemistry.

The winners of these scholarships will receive one year's tuition in University College of Arts. Total value of each scholarship, $125.00.

The scholarships in I, II and III above will be awarded on the examinations of 1934. No scholarship will be awarded on a standing less than an average of First Class Honours (75 per cent.) on all papers involved in the award of the scholarship. The successful candidates must pursue courses in University College or Medical School, University of Western Ontario, beginning the academic session following the award.

IV. Scholarships of free tuition for two years, for competition in each Collegiate Institute and High School in the counties named in the University of Western Ontario Act, 1923, viz., Essex, Kent, Elgin, Norfolk, Brant, Oxford, Middlesex, Lambton, Huron, Bruce, Grey, Perth, Wellington and Waterloo; and all the cities situated therein. The successful candidates must have an average of at least Second Class Honours (66 per cent.) in nine papers of the Upper School examination written in June of the year of the award. The successful candidate in each case must register for a full year's work in University College or Medical School, University of Western Ontario, beginning the fall following the award.

Candidates must notify the University of Western Ontario by May 1st (on forms provided on request) of their intention to compete for scholarships the following June.

URSULINE COLLEGE

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

His Excellency, the Bishop of London's Partial Residence Scholarship, No. 1.....$150.00

His Excellency, the Bishop of London's Partial Residence Scholarship, No. 2..... 150.00

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

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

Those wishing to enter this competition must make application before May 1st, and must state the centre at which they will write the Matriculation examinations.

Address all communications about Ursuline College scholarships to

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

WATERLOO COLLEGE

Waterloo College offers the following entrance scholarships:

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

Scholarships awarded on Honour Matriculation standing:

One, total value..... $325.00
One, total value..... $300.00
Five, total value, each..... $200.00
One, total value..... $160.00
Three, total value, each..... $150.00
One, total value..... $125.00

Candidates must notify Waterloo College of their intention to compete for scholarships if they intend to register in Waterloo College the following September.

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

PUBLIC SCHOOL INSPECTORS' CERTIFICATES

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

(1) An Honour Degree in Arts in accordance with the present agreement as prescribed for Specialist qualification (see page 63); or

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

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

A candidate must also meet the following requirements:

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

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

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

HIGH SCHOOL ASSISTANTS' CERTIFICATES

I. ORDINARY CERTIFICATES

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

II. SPECIALIST CERTIFICATES

Subject to the conditions specified below, the academic standing for admission to the courses leading to High School Specialist Certificates in Classics, Commerce, English and French, English and German or Spanish, French and German or Spanish, English and History, Latin and French, Latin with Greek, Mathematics and Physics, Science and Household Science is an Honour degree in Arts (60%) from any one of: the University of Toronto, Queen's University, McMaster University and the University of Western Ontario.

1. The courses in the departments specified above shall be the Honour Courses as defined in the Announcement of the Faculty of Arts for 1934-35, for the University of Western Ontario. After due notice from any one of the four Universities, the Minister may accept modifications of its courses for Specialist standing.

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

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

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

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

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

FEES

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

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

The following fees are payable to the Executive Secretary:

First Registration (for all students on entering)	$ 5 00
***Tuition,** including examinations, one payment per year	100 00
Two payments per year, first $50.00, second $55.00	105 00
Tuition, special student, each credit, including examination	8 00
Tuition, Intensive Course in Business	200 00
Tuition, Extension department, each credit, including examination	8 00
Tuition, Summer School, each credit, including examination	8 00
Maximum	35 00
Tuition, Extramural, each credit, including examination	8 00
Maximum	35 00
Examinations, Supplemental, each paper, September or May	5 00
Maximum	15 00
Examinations, LL.B. Course, each paper	15 00
Examinations, at dates other than January, May or September	15 00
Examinations, Establishing outside centre	5 00
Presiding Examiner's fee, etc. (at outside centre), per half day	3 00
Library Deposit (extramural students outside London)	5 00
Change of Faculty	5 00
Change of Registration, after one week from Regist. Day, $1.00 to	5 00
Late Registration, first week (see also page 7)	2 00
Admission *ad eundem statum*	5 00
Undergraduate Certificate of Standing	3 00
Graduate detailed certificate (after the first two), each	2 00
Athletic Association, each year	11 00
Students' Administrative Assembly Fee, each year	5 00
Students' Health Insurance, each year	6 00
Caution Money (1), each year	5 00
Microscope Rental, each instrument, each year	5 00
Laboratory Fee, each Science, full course	4 00
Half course	2 00
Laboratory Fee, Business Administration, last three years	4 00
Laboratory Fee, Secretarial Science, last three years	4 00
Caution Fee (1), Physics, Chemistry, each course	5 00
Caution Fee (1), Applied Biology, Botany, Geology, Psychology, Zoology, each course	2 00
Degree of B.A. (2), payable May 1st	10 00
Degree of M.A. (3), payable May 1st	20 00
Degree of B.Sc., payable May 1st	10 00
Degree of M.Sc., payable May 1st	20 00
Degree of LL.B., payable May 1st	20 00
Degree of B.D., payable May 1st	24 00

(1) Caution money minus deductions for breakage, etc., will be returned at end of year. (2) See page 43. (3) See page 48.

*For foreign students tuition fees are double these figures.

REQUIREMENTS FOR DEGREES

Explanation of Number System

First year general courses are numbered between 10 and 19.

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

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

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

Graduate courses are numbered between 500 and 599.

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

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

All students, on entering the University, will register in one of the following courses:

GENERAL COURSE I: Leading through one of three so-called Junior Groups to both Pass and Honour degrees. On completion of any one of these Junior Groups, a student may finish his course for a Pass degree in two years (Senior Group) or, if eligible, may enter an Honour course to finish in three years (see pages 70-86).

GENERAL COURSE II: For those who wish to specialize in Secretarial Science (see page 67).

GENERAL COURSE III: For students who wish to avail themselves of Theological Options (see page 68).

GENERAL COURSE IV: Leading to the degree of Bachelor of Science in Nursing (see page 69).

For Honour Philosophy in Assumption and Ursuline Colleges, see page 83.

GENERAL COURSE I

Requirements for Admission: Complete Pass Junior Matriculation.

In each Junior Group credit will be allowed for Certificates in Upper School English (English 10, 11), Mathematics (Mathematics 10, 12, 28), Latin (10), Greek (10), French (10), German (10), Spanish (10); also for the Sciences if the certificates show at least second class.

These Junior Groups are complete in themselves and no work outside of them can be taken before the elected Group is completed.

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

JUNIOR GROUP I

Subject	*Credits*
English 10, 11, 19	4
English 20, 21	3
French 10 or German 10	3
Library Science 10a	½
Mathematics 10, 12, 20, 22, 24, 28	9
Botany 10	3½
Chemistry 10	3½
Physics 10	3½
Zoology 10	3½
Physical Education 10 or 11	1

JUNIOR GROUP 2

Subject	*Credits*
English 10, 11, 19, 20, 21	7
Library Science 10a	½
Mathematics 10, 12	3
Physical Education 10 or 11	1
Business 20	2
Economics 20	3
Psychology 20	3
Biological or Physical Science 11	3
Two of *German 1, *Greek 1, French 10, German 10, Greek 10, Latin 10, Hebrew 10, Spanish 10	6 or 7
One of *German 10, *Greek 10, French 20, German 20, Latin 20, Greek 20, Hebrew 20, Spanish 20, 21	3 or 4

JUNIOR GROUP 3

Subject	*Credits*
English 10, 11, 19, 20, 21	7
History 25	2
Library Science 10a	½
Mathematics 10, 12	3
Physical Education 10 or 11	1
Biological or Physical Science 11	3
Three of *Greek 1, *German 1, French 10, German 10, Greek 10, Latin 10, Hebrew 10, Spanish 10	9 or 10
Two of *Greek 10, *German 10, French 20, German 20, Greek 20, Latin 20 or 24, Hebrew 20, Spanish 20, 21	6 to 8

SENIOR GROUP

This Group is open to any student who has completed one of Junior Groups 1, 2, 3. To graduate, a student must secure at least Grade C in one-half the credits of this Senior Group and a passing mark (Grade D) in the rest. Courses previously taken cannot be repeated for credit in the Senior Group. The total work offered in the two years must amount to at least 32 credits. See also page 39.

*For those who have no Junior Matriculation standing in these languages at entrance.

Subject	*Credits*
Psychology 20	3
Economics 30	3
Biological or Physical Science 11 (if not previously taken)	3
Physical Education 20 or 21	1
At least six credits from English 30, 40, 42 or 48	6
At least six credits from History 30, 31, 40 (or 45, 46), 43	6
	22

At least six credits from:

Economics 20, 32a, 32b, 33, 46, 48;
Philosophy 30, 31, 32, 33, 37, 43b, 47;
Psychology 35, 36, 38, 43a, 46, 48;
Religious Knowledge 30.

At least six credits from one of the following combinations:

(a) Latin 20, 30, 40; Greek 10, 20, 30, 40;
French 20, 30, 40; German 20, 30, 40;
Spanish 20, 21; 30, 31; 40, 41;
Italian 20, 30.

(b) Applied Biology 20, 31, 41;
Botany 22b, 25a, 31a, 36b, 43; Chemistry 22, 33, 44;
Geology 20, 31, 47; Physics 20, 30;
Zoology 21, 32, 33, 44, 46.

(c) Mathematics 20, 22, 23, 24, 28, 29.

(d) Courses not already counted in English, History, Economics, Philosophy, Psychology, Religious Knowledge.

B.A. GENERAL COURSE II

Secretarial Science

Requirements for Admission: Complete Pass Junior Matriculation.

First Year

Subject	*Credits*
English 10, 11, 19	4
Latin 10	3
Library Science 10a	½
Mathematics 10a, 12b	3
Physical Training 10	1
Biological Science 11	3
One of:	
French 10	3
German 10	3
Spanish 10	4

Second Year

Not more than fifteen registrations are permitted in this year; they will be made up from those who have passed the above first year without any conditions whatever, or who present certificates of standing in Upper School English, Latin, Mathematics (Algebra and Geometry) and French. Honour Matriculants must make up all deficiencies of the first year before beginning any work of the third year.

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

Third Year

Business Administration 30	2
English 30	3
English 31	1
Library Science 31b	2
Secretarial Science 37	3
Secretarial Science 38, 39	6
One of:	
French 30	3
German 30	3
Spanish 30, 31	3

Fourth Year

English 40, 42 or 48	3 or 4
History 31	2
Secretarial Science 47	7
Secretarial Science 48, 49	5
One of:	
French 40	3
German 40	3
Spanish 40, 41	3

B.A. GENERAL COURSE III.

Theological Options

Requirements for Admission: Complete Pass Junior Matriculation.

The following is the prescribed course accepted by the University for students registered with recognized Theological bodies who wish to take advantage of the options offered by Huron College. With certain adjustments this course will be available for women who are interested in training for religious work as a profession or as an avocation.

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

Students in this course may elect, instead of English 19, Junior Homiletics at Huron College.

First Year

Subject	*Credits*
English 10, 11	3
English 19 *or* English 19x (Homiletics, Junior)	1
Greek 1	4
Apologetics 30x	2
Biblical Literature 10x	½
Church History 30x	2
Latin 10	3
Library Science 10a	½
Physical Training 10 or 11	1

Second Year

Hebrew 10	3
Biblical Literature 21x	½
English 20, 21	3
History 25	2
Homiletics, Senior	1
Greek 25	3
Psychology 20	3
Physical Training 20 or 21	1

Third Year

Biblical Literature 30x, 31x	1
Economics 20	3
English 30	3
Greek 35	3
History 31	2
Hebrew 20	3
Psychology 36	2

Fourth Year

Biblical Literature 40x, 41x	1
Church History 40x or 41x or 42x	2
Economic and Political Science 46	2
Economic and Political Science 48	1½
English 40	2
History 45a, 46b	3
Philosophy 31, 32	2
Psychology 48a, 48b	2
Philosophy 33	1

GENERAL COURSE IV

Bachelor of Science in Nursing

Requirements for Admission: Complete Pass Junior Matriculation.

The length of this course will be five calendar years, and it is made up of three parts as follows:

(a) One and one-half academic years in the Faculty of Arts in which the following shall be taken:

First Year

Subject	*Credits*
Chemistry 10	3½
English 10, 11, 19	4
French 10 or German 25	2 or 3
Library Science 10a	½
Physical Training 10	1
Zoology 10	3½

Second Year, First Term Only (September to January)

Chemistry 22a	1½
English 20a, 21a	1½
Language of First Year continued	2
Psychology 20a	1½
Physical Training 20a	½
Zoology 21a	2

(b) Thirty-two continuous months in a Training School for Nurses where there shall be a course that is in all its details approved by the Committee, of which the Dean of the Faculty of Public Health is Convener. The hospital training course starts in the latter part of January and finishes in September thirty-two months later.

(c) One academic year in the Faculty of Public Health.

The final academic year of eight months will be spent in the Faculty of Public Health of the University of Western Ontario with the option of Public Health Nursing, Instructor in Nursing or Hospital Administration courses.

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

HONOUR COURSES

I—Department of Biological Sciences

Requirements for Admission: Group 1, page 66, with an average of at least 60% in the Sciences and not less than 60% in Botany and 60% in Zoology.

This course satisfies the academic requirements for the Science Specialist Certificate of the Department of Education of Ontario. For conditions, see page 63.

Second Year

Subject	*Credits*
French 1 or German 1	3
Physical Training 20 or 21	1
Botany 250	2½
Chemistry 200	4
Geology 257	5
Physics 204, 205	3
Zoology 260	2½

Third Year

Economics 20 or Psychology 20	3
French 10 or German 25 (language chosen in the First Year)	2 or 3
Botany 352, 360	5
Chemistry 303	4
Zoology 350, 357	7

Fourth Year

Any one of the four following options may be taken:

(a) General Biology

French 35	½
German 35	½
Botany 453	2½
Botany 454	2½
Botany 461	2½
Zoology 452	4
Zoology 453	2½
Zoology 454a	2
Zoology 454b	2

(b) Botany

French 35	½
German 35	½
History 45, 46	3
Botany 453	2½
Botany 454	2½
Botany 461	2½
Botany 466	2½
Botany 474	2½

(c) Zoology

French 35	½
German 35	½
History 45, 46	3
Zoology 451	2
Zoology 452	4
Zoology 453	2½
Zoology 454a	2
Zoology 454b	2

(d) Applied Biology

French 35	½
German 35	½
History 45, 46	3
Botany 461	2½
Botany 466	2½
Applied Biology 451a	2½
Applied Biology 451b	2
Applied Biology 460a	2
Applied Biology 460b	2

II—Department of Business Administration

Requirements for Admission: Group 2, page 66, with at least 60% in Economics and 60% in Business. This course is open to men only.

Second Year

Subject	*Credits*
English 31	1
Physical Training 21	1
French 20 or 30 or German 20 or 30	4 or 3
Business 250	3
Business 251	3
Business 255	3
Economics 233	2
Economics 251b	1
Economics 257a, 257b	2
Mathematics 23a	1½

Third Year

History 31 or 44	2
Business 350	3
Business 353	3
Business 354	3
Business 356	1½
Economics 346	2
Economics 353a	1
One of:	
English 30 or 34	3
French 30	3
German 30	3
Philosophy 30, 32	3
Spanish 20, 21 or 30, 31	3

Fourth Year

Business 450	1½
Business 451	1½
Business 454 (optional)	2
Business 458	3
Business 459	3
Business 460	1½
Business 461	1½
Business 471	2

INTENSIVE COURSE

Requirements for Admission: Graduation from a recognized college or engineering school or from Royal Military College.

This is a one-year course leading to a diploma in Business Administration.

First Term

Subject	*Credits*
Business 5x0a	1½
Business 5x1a	1½
Business 5x3a	1½
Business 5x4a	1½
Business 5x5a	1½

Second Term

Subject	*Credits*
Business 5x1b	1½
Business 5x4b	1½
Business 5x8b	1½
Business 5x9	1½
English 5x31	1
Psychology 5x9	1

III—Department of Business Administration and Secretarial Science

Requirements for Admission: Group 2, page 66, with an average of at least 60% in Economics and in Business.

This course may be elected by both men and women.

This course, with the addition of Penmanship, satisfies the academic requirements for the Commercial Specialist certificate of the Department of Education of Ontario. For conditions, see p. 63.

Second Year

Subject	*Credits*
English 31	1
Mathematics 23a	1½
Physical Training 20 or 21	1
Business 30	2
Business 36	2
Business 250	3
Business 251	3
Economics 257a, 257b	2
Secretarial Science 28, 29	6

Third Year

History 25	2
Business 25b	½
Business 350	3
Economics 233	2
Economics 259	1½
Economics 353a	1
English 30	3
Secretarial Science 37 (theory only)	1
Secretarial Science 38, 39	6

Fourth Year

Business 306, 356	3
Business 450, 460	3
Economics 46 or English 40	2
History 31	2
Library Science 31b	2
Secretarial Science 47 (theory and practice)	7

IV—Department of Chemistry

Requirements for Admission: Group 1, page 66, with an average of at least 60% in the Sciences of the Group and an average of 60% in Physics and Mathematics and 60% in Chemistry.

This course satisfies the academic requirements for the Science Specialist Certificate of the Department of Education of Ontario. For conditions, see page 63.

Second Year

Subject	*Credits*
French 1 or German 1 (if not previously taken)	3
Physical Training 20 or 21	1
Botany 250	2½
Chemistry 250	6
Chemistry 252b	2½
Chemistry 257a	½
Geology 257	5
Zoology 260	2½

Third Year

French 10 or German 25 (language of the first year)	2 or 3
Chemistry 303	4
Chemistry 354	5
Physics 254, 255	5

Fourth Year

French 35	½
German 35	½
Chemistry 451a	2
Chemistry 453	3½
Chemistry 454	4
Chemistry 455b	2
Chemistry 458	1
Chemistry 459	5

V—Department of Chemistry and Physics

Requirements for Admission: Group 1, page 66, with an average of at least 60% in all the Sciences and 60% in Mathematics, Chemistry and Physics.

Second Year

Subject	*Credits*
French 1 or German 1 (if not previously taken)	3
Physical Training 20 or 21	1
Chemistry 200, 252b, 257a	7
Mathematics 254, 264	3
Physics 251, 254, 255	6

Third Year

Subject	*Credits*
French 10 or German 25 (language of the second year)	2 or 3
Mathematics 354a, 364b	2
Chemistry 303	4
Chemistry 354	5
Physics 352	3
Physics 364	4

Fourth Year

French 35	½
German 35	½
History 45, 46	3
*Chemistry 453 or 454	4
Chemistry 458	1
Physics 455	2
Physics 453 or 456	2
Physics 458	1
Either Chemistry 459 or Physics 459	3

VI—Department of Classics

Requirements for Admission: Group 3, page 66, with an average of 60% in Latin 10 and 20 and 60% in Greek 10, 20.

This course satisfies the academic requirements for the Classics Specialist Certificate of the Department of Education of Ontario. For conditions, see page 63.

Second Year

Subject	*Credits*
English 250	2
French 20 or German 20 or Hebrew 20	4
Physical Training 20 or 21	1
Greek 207, 230, 251	5
Latin 207, 230, 250, 251	6

Third Year

English 330	3
Greek 340, 350, 351, 352, 353	7
Latin 340, 350, 351, 352	6

Fourth Year

English 440	2
Greek 450, 451, 452, 453	7½
Latin 450, 451, 452, 453	6½

*Chemistry 454 and Physics 453 may not be elected by the same student.

VII—Department of Economic and Political Science

Requirements for Admission: Group 2, page 66, with an average of at least 60% in Economics, Business and Psychology and 60% in Economics.

Second Year

Subject	*Credits*
Biological or Physical Science 11 (one not previously taken)	3
Business 200	2
English 31	1
Mathematics 23a	1½
Physical Training 20 or 21	1
Economics 232a, 232b, 233, 251, 257a, 257b, 259	9

Third Year

History 31, 44	4
Economics 346, 348, 355	5

See note below.

Fourth Year

History 45, 46	3
Economics 450a, 452b, 460, 462b	6

See note below.

NOTE: For each of the third and fourth years a minimum of 16 credits is the prescribed work, 10 credits of which must be taken from courses given by the Department of Economics. Of the options for these years, the numbers indicate the natural sequence but the requirement is not rigid.

Subject	*Credits*
Economics 351b	1
Economics 352	1½
Economics 353a	1
Economics 354a	1
Economics 363b	1
Economics 453	1
Economics 458	1
Economics 463	1
Economics 468	1
Economics 478	1½
Economics 488	1
English 30 or 34	3
History 25	2
Philosophy 30	2
Psychology 48a, 48b	2
Government and Law 305, 306, 307, 308	2
Government and Law 405, 406, 407, 408	2
One of :	
French 30, 40, German 30, 40	3

OLD COURSE FOR THOSE REGISTERED BEFORE 1932

Fourth Year

Subject	*Credits*
History 44, 45, 46	5
Economics 346, 348, 450a, 452b	6½
Two of:	
Economics 453	1
Economics 468	1½
Economics (option not already taken)	1½
Three credits from:	
English 40, 42 (or 34 if not previously taken)	3
French 40	3
German 40	3
History 43, 452	3½

VIII—Department of English and French (or German or Spanish)

Requirements for Admission: Group 3, page 66, with an average of at least 60% in English and in French (or German or Spanish).

This course is accepted by the Department of Education of Ontario as academic qualification for the Specialist Certificate in English and French (or German or Spanish). For conditions, see page 63.

Second Year

Subject	*Credits*
Latin 24 (if not previously taken)	3
History 30	3
Physical Training 20 or 21	1
English 210, 250, 251	5
French 270, 271	4
German 280a, 280b, 281	4
or	
Spanish 220, 221, 260	4

Third Year

History 40	3
English 330, 342, 352, 353, 362	7
One of:	
French 380, 381	6
German 380b, 381, 383, 390a	6
Spanish 330, 331, 360	5

Fourth Year

History 31	2
English 440, 450, 453, 454, 456	8
One of:	
French 460, 467, 490, 491	7
German 490a, 490b, 491, 494a, 494b	7
Spanish 440, 441, 450, 453	6

IX—Department of English and History

Requirements for Admission: Group 3, page 66, with an average of at least 60% in English and in History.

This course satisfies the academic requirements in English and History for the Specialist Certificate of the Department of Education of Ontario, except that for this purpose Hebrew may not be chosen as one of the minor honour subjects. For conditions, see page 63.

Second Year

Subject	*Credits*
Physical Training 20 or 21	1
English 210, 250, 251	5
History 230	3
Two of:	
French 270, 271	4
German 280a, 280b, 281	4
Greek 207a, 230, 251	5
Hebrew 200	4
Latin 207b, 230, 251	5
Spanish 220, 221, 260	4

Third Year

Economics 20	3
English 330, 342, 352, 353, 362	7
History 330, 331	5
Philosophy 30	2

Fourth Year

English 440, 450, 453, 454, 456	8
History 443, 444, 452, 455	8½

X—Department of French and German (or Spanish)

Requirements for Admission: Group 3, page 66, with an average of at least 60% in French and in German or Spanish.

This course satisfies the academic requirements for the French and German or Spanish Specialist Certificate of the Department of Education of Ontario. For conditions, see page 63.

Second Year

Subject	*Credits*
English 30	3
History 30	3
Latin 24 (if not previously taken)	3
Physical Training 20 or 21	1
French 270, 271	4
German 280a, 280b, 281	4
or	
Spanish 220, 221, 260	4

Third Year

Subject	*Credits*
English 40, 42	3
History 40	3
French 380, 381	6
German 380b, 381, 383, 390a	6
or	
Spanish 330, 331, 360	5

Fourth Year

History 31	2
French 460, 467, 490, 491	7
German 490a, 490b, 491, 494a, 494b	7
or	
Spanish 440, 441, 450, 453	6

XI—Department of French and Latin

Requirements for Admission: Group 3, page 66, with an average of at least 60% in French and 60% in Latin.

This course is accepted by the Department of Education of Ontario as academic qualification for the Specialist Certificate in French and Latin. For conditions, see page 63. Three years or the equivalent of Greek or German must be taken in this course.

Second Year

Subject	*Credits*
German 1 or 10 or 20	3 or 4
or	
Greek 1 or 10 or 20	3 or 4
History 30	3
Physical Training 20 or 21	1
French 270, 271	4
Latin 207b, 230, 250, 251	6

Third Year

German 10 or 20 or 30	3 or 4
or	
Greek 10 or 20 or 30	3 or 4
History 40	3
French 380, 381	6
Latin 340, 350, 351, 352	6

Fourth Year

German 20 or 30	3 or 4
or	
Greek 20 or 30	3 or 4
French 460, 467, 490, 491	7
Latin 450, 451, 452, 453	6½

XII—Department of Geology

Requirements for Admission: Group 1, page 66, with an average of at least 60% in the Sciences.

This course satisfies the academic requirements for the Science Specialist Certificate of the Department of Education of Ontario. For conditions, see page 63.

Second Year

Subject	*Credits*
French 1 or German 1	3
Physical Training 20 or 21	1
Botany 250	2½
Geology 251, 257	8
Physics 204, 205	3
Zoology 260	2½

Third Year

French 10 or German 25	2 or 3
Geology 351, 354	6
Chemistry 200	4
Zoology 350 or Geology 356 and Chemistry 252b (Second Term)	5

Fourth Year

French 35	½
German 35	½
Economics 20	3
Geology 452, 453, 455, 457, 458	10½
Zoology 357	2

XIII—Department of Mathematics and Business

Requirements for Admission: Group 1, page 66, with an average of at least 60% in Mathematics and 60% in Business.

This course is designed for students who plan to become actuaries. It will prepare them for five of the eight examinations required for Associateship in the Actuarial Society of America and in the American Institute of Actuaries. The first three of these may be taken any year but preferably not before the second; the fourth and the fifth may be taken during the fourth year. These examinations are held on the first Monday, Tuesday and Wednesday after the thirteenth of April and may be written in London. **Application to write these examinations must be made by January 31st.**

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

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

Second Year

Subject	*Credits*
French 1 or German 1	3
Business 27	2
Mathematics 250, 252, 254, 260, 262, 264	7
Physics 250, 254, 255	7

Third Year

Business 250	3
French 10 or German 25 (if not previously taken)	2 or 3
Physics 451	1
And either Group I or Group II below	7 or 8

Fourth Year

Economics 20	3
Business 450, 460	3
Mathematics 457	1
And either Group I or Group II below	7 or 8

The following two groups are given in alternate years, Group II in 1934-35.

Group I

Mathematics 329	2
Mathematics 354a	1
Mathematics 355b	1
Mathematics 362	2
Mathematics 364b	1

Group II

Mathematics 452a	1
Mathematics 453a	1
Mathematics 454b	1
Mathematics 456	2
Mathematics 462b	1
Mathematics 463a	1
Mathematics 473b	1

XIV—Department of Mathematics and Physics

Requirements for Admission: Group 1, page 66, with an average of at least 60% in Mathematics and in Physics.

This course satisfies the academic requirements for the Mathematics and Physics Specialist Certificate of the Department of Education of Ontario. For conditions, see page 63.

Second Year

Subject	*Credits*
French 1 or German 1 (if not previously taken)	3
Mathematics 250, 252, 254, 260, 261, 262, 264	8
Physics 250, 251, 254, 255	8

MATHEMATICS OPTION

Third Year

Subject	*Credits*
French 10 or German 25	2 or 3
Physics 360	3½
One of Group I or II below	9

Fourth Year

French 35, German 35	1
Economics 20 or History 45, 46	3
Mathematics 457	1
Physics 451, 456	3
One of Group I or II below	9

The following two groups are given in alternate years, Group II in 1934-35.

Group I

Mathematics 329	2
Mathematics 354a	1
Mathematics 355b	1
Mathematics 358a	1
Mathematics 359b	1
Mathematics 362	2
Mathematics 364b	1

Group II

Mathematics 451b	1
Mathematics 452a	1
Mathematics 453a	1
Mathematics 454b	1
Mathematics 456	2
Mathematics 462b	1
Mathematics 463a	1
Mathematics 473b	1

PHYSICS OPTION

Third Year

French 10 or German 25	2 or 3
Mathematics 354a, 364b or 456	2
Physics 350	3
Physics 352	3
Physics 354	5
Physics 355	1

Fourth Year

Subject	*Credits*
French 35, German 35	1
English 30 or 34	3
Mathematics 354a, 364b, or 456	2
Physics 451	1
Physics 453	2
Physics 455	2
Physics 456	2
Physics 458	1
Physics 459	3

XV(a)—Department of Philosophy and Psychology

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

First Year

Subject	*Credits*
English, 10, 11, 19	4
Latin 10	3
Library Science 10a	½
Mathematics 10, 12	3
Physical Training 11	1
Religious Knowledge 10x or/and 11x	1 or 2
At least three credits from the following:	
French 10	3
German 1 or 10	3
Greek 1 or 10	3
Spanish 10	4
Italian 20	3
Botany 10	3½
Chemistry 10	3½
Physics 10	3½
Zoology 10	3½

Second Year

English 20, 21	3
Latin 20	3
Physical Training 21	1
Religious Knowledge 20x, 21x	2
Philosophy 250x	3
Philosophy 251x	2
Philosophy 257x	2
One of:	
French 10 or 20	3 or 4
German 10 or 20	3 or 4
Greek 10 or 20	3 or 4
History 27	3
Italian 20 or 30	3
Spanish 20, 21	3
Options of First Year not previously taken.	

Third Year

Subject	*Credits*
English 30	3
Philosophy 351x	5
Philosophy 352x	3
Philosophy 357x	3
One of:	
French 20 or 30	4 or 3
German 20 or 30	4 or 3
Greek 20 or 30	4 or 3
Latin 30 or 35x	3
Religious Knowledge 30x, 31x	3
Options of Second Year not previously taken.	

Fourth Year

English 40, 42 or 48	3 or 4
Philosophy 450x	5
Philosophy 452x	3
Philosophy 457x	3
One of:	
French 30 or 40	3
German 30 or 40	3
Greek 30 or 40	3
Latin 40 or 45x	3
Religious Knowledge 40x, 41x	3
Options of Third Year not previously taken.	

XV(b)—Department of Philosophy and Psychology

This Course is offered in University College only.

Requirements for Admission: Group 2, page 66, with an average of at least 60% in Economics, Business and Psychology, and 60% in Psychology.

Second Year

Subject	*Credits*
Biological or Physical Science 11 (one not previously taken)	3
English 30 or 34	3
Physical Training 20 or 21	1
Philosophy 230, 231	3
Psychology 235	3
At least three credits from:	
French 10, 20, 30	3 or 4
German 1, 10, 20, 25, 30	2 or 3 or 4
Greek 1, 10 or 25	3
Greek 20 or 35	3 or 4
Greek 30 or 45	3
Hebrew 20	4
Latin 20	4

Students may complete this course by taking either the Philosophy Option or the Psychology Option as outlined below.

PHILOSOPHY OPTION

Subject	Third Year	*Credits*
History 45a, 46b		3
Philosophy 332, 333, 337, 350		5
Psychology 336		2
At least three credits from:		
	English 30 or 34	3
	French 20 or 30	3 or 4
	French 35 and German 35	1
	German 10 or 25 or 20 or 30	2 or 3 or 4
	Greek 20 (or 35) or 30 (or 45)	3 or 4
At least four credits from:		
	Economic and Political Science 32a, 32b	2½
	Economic and Political Science 46	2
	Religious Knowledge 30	2
	Zoology 10a	2
	Fourth Year	
Economic and Political Science 48b		1½
Philosophy 443b, 447, 458		4
Psychology 443a, 446, 448a, 448b		5
At least three credits from:		
	English 30 or 34 or 40	2 or 3
	French 35 or 45 and German 35 or 45	1
	Religious Knowledge 30 (if not previously taken)	2

PSYCHOLOGY OPTION

	Third Year	
Zoology 10		3½
Philosophy 332, 337		3
Psychology 336, 338, 339		7
At least three credits from:		
	English 30 or 34	3
	French 20 or 30	3 or 4
	French 35 and German 35	1
	German 10 or 25 or 20 or 30	2 or 3 or 4
	Fourth Year	
Economic and Political Science 48b		1½
Philosophy 447		2
Psychology 443a, 446, 448a, 448b, 455, 459		10
At least three credits from:		
	English 30 or 34 or 40	2 or 3
	French 35 or 45 and German 35 or 45	1
	Zoology 21	4

Department of Physics

See Department of Mathematics and Physics, page 81.

Department of Physics and Chemistry

See Department of Chemistry and Physics, page 74.

XVI—Department of Romance Languages

Requirements for Admission: Group 3, page 66, with an average of at least 60% in Spanish, in French and in Latin.

This course satisfies the academic requirements for the French and Spanish Specialist Certificate of the Department of Education of Ontario. For conditions, see page 63.

Second Year

Subject	*Credits*
History 30	3
Latin 24 (if not previously taken)	3
Physical Training 20 or 21	1
French 270, 271	4
Italian 220	3
Spanish 220, 221, 260	4

Third Year

History 40	3
French 380, 381	6
Italian 330	3
Spanish 330, 331, 360	5

Fourth Year

English 30	3
French 460, 467, 490, 491	7
Spanish 440, 441, 450, 453	6

XVII—The B.A., M.D. Course

Requirements for Admission: Group 1, page 66, with an average of at least 60% in the Sciences.

Second Year

Subject	*Credits*
French 1 or German 1	3
Physical Training 20 or 21	1
Botany 250	2½
Chemistry 200	4
Geology 257	5
Physics 204, 205	3
Zoology 260	2½

Third Year

French 10 or German 25	2 or 3
Botany 466	2½
Chemistry 303	4
Chemistry 444	3½
Zoology 350	5
Zoology 357	2

Fourth Year

Identical with the second year of the Medical Course less English and German; to be taken at the Medical School.

DESCRIPTION OF COURSES

DEPARTMENTS OF BIOLOGICAL SCIENCES

EXECUTIVE COMMITTEE: Professors Hart (Chairman), Detwiler, Robertson.

11. **Biological Science:** a course on the fundamental principles of biology with particular stress on the cell as a unit, the origin and preservation of the individual and the race, the mode of inheritance, and the applications of biology to social and economic problems.

Open to General Course students in Groups 2 and 3, p. 66.

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

Text-book: Haupt, *Fundamentals of Biology.*
References: Scott, *The Science of Biology*
Plunkett, *Outlines of Modern Biology.*
Shumway, *General Biology.*
White, *General Biology.*

Students obtaining 60 per cent. in this course may select options for further study in the pass Biological Sciences, Applied Biology, Botany and Zoology.

APPLIED BIOLOGY

JOHN D. DETWILER, PH.D., F.A.A.A.S., Professor
VERNON FRANKS, B.A., Demonstrator

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

20. **General Interpretative Biology:** a biological study of local animals on the basis of their habitats. This will include the recognition of the type forms.

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

Prerequisites: Botany 10, Zoology 10.

31. **Arthropoda:** a general study of the comparative morphology, postembryonic development, and economic importance of typical representatives of the main arthropod groups.

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

Prerequisites: Applied Biology 20, or Zoology 21.

41. **Hexapoda:** the morphology, organ systems, elementary classification, life histories and economic importance of representative insects.

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

Prerequisite: Applied Biology 31.

Honour Courses

451a. **General Arthropodology:** the phylogenetic relationships of the arthropods as deduced from a study of their morphology and organ systems. Life histories and economic features will also be reviewed.

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

Prerequisite: Zoology 260.

451b. **General Entomology:** morphology, development, elementary physiology and taxonomy of insects. The student will profit greatly by making an insect collection before taking the course.

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

Prerequisite: Applied Biology 451a.

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

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

Prerequisites: Applied Biology 451, Botany 360.

Text-book: Needham and Lloyd, *The Life in Inland Waters.*

460a. **Soil Science:** the composition and properties of soil and their relation to crop growth, fertilizers and soil fertility. The course is designed to make the student think in terms of soil management and plant production.

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

Prerequisites: Junior Group 1 and Geology 257.

460b. **Plant Culture:** a fundamental course in the care and development of plants. The course is intended to prepare students for the investigation of plant-cultural problems related to vegetable gardening, flori-culture, fruit growing and field crops. This course must either be accompanied or preceded by Applied Biology 460a.

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

Prerequisites: Botany 10 and Botany 250.

Courses Leading to the Degree of M.A.

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

551. **Insect Morphology and Taxonomy.**

553. **Principles of Animal Biology.**

561a. **Medical Arthropodology.**

561b. **Economic Entomology.**

BOTANY

University College

N. C. HART, M.A., F.A.A.A.S.,	Professor
ANSON R. WALKER, M.A.,	Associate Professor
HELEN B. BERDAN, M.A.,	Assistant Professor
LORNA A. GRANT, B.A.,	Demonstrator
MAY E. LIVINGSTONE, B.A.,	Demonstrator
RUTH ELIZABETH SHARPE, B.A.,	Demonstrator

Assumption College

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

Waterloo College

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

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

10. **Introductory Botany:** for students of the General Course, Group I; a course dealing with the general principles of Botany. **To qualify for the honour courses in Biology a student must obtain 60 per cent. in Botany 10.**

2 lectures and 3 laboratory hours per week: 3½ credits.

Prerequisites: complete college entrance requirements.

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

22b. **Plant Physiology:** for General Course students; a course dealing with the relationship between plants and their surroundings, and with some of the functions of the organs of plants.

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

Prerequisite: Botany 25a.

Text-book: Coulter, Barnes and Cowles, *Text-book of Botany, Vol. II.*

25a. **Plant Biology:** for General Course students; a course dealing with the general principles underlying the study of plant culture and plant breeding.

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

Prerequisite: Botany 10 or Biological Science 11.

Text-book: Sinnot and Dunn, *Principles of Plant Genetics.*

31a. **Plant Diseases and Fungi:** for General Course students; a course dealing with the recognition of poisonous and edible fungi and the identification, cause and control of common plant diseases.

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

Prerequisites: Botany 25a and 22b, or Botany 10 or Biological Science 11.

Text-book: Duggar, *Fungous Diseases of Plants.*

36b. **Elementary Bacteriology:** an elementary course dealing with the common economic organisms in reference to water, food supplies, public health and civic problems.

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

Prerequisite: Botany 31a.

Text-book: Buchanan and Buchanan, *Bacteriology.*

43. **Plant Ecology and Taxonomy:** for General Course students; a course dealing with the recognition and classification of the common garden and field plants with special reference to adaptations to their environment.

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

Prerequisites: Botany 25a and 22b, or Botany 31a and 36b.

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

Honour Courses

250. **Phanerogamic Botany:** for Honour Science and B.A., M.D., students; a course dealing with the evolution, external morphology and anatomy of the Spermatophyta.

2 lectures and 6 laboratory hours per week, one term: 2½ credits.

Prerequisites: Junior Group 1.

Text-books: Coulter, Barnes and Cowles, *Text-book of Botany.*
Gray, *New Manual of Botany.*

352. **Plant Physiology:** for students in Honour Biology and Honour Science; a course dealing with the physiology of plants.

2 lectures and 6 laboratory hours per week, one term: 2½ credits.

Prerequisites: Botany 250 and Zoology 260.

Text-books: Livingston, *Palladin's Plant Physiology.*
Maximov, *A Text-book of Plant Physiology.*
Miller, *Plant Physiology.*

357. **Historical Biology:** see Zoology 357.

360. **Cryptogamic Botany:** for Honour Biology and B.A., M.D. students; a course dealing with the morphology, classification and evolution of the Algae, Mosses and Ferns.

2 lectures and 6 laboratory hours per week, one term: 2½ credits.

Prerequisites: Botany 250 and Zoology 260.

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

453. **Ecology and Taxonomy:** for Honour Biology students; a course dealing with the principles of ecology, and the classification of the Spermatophyta.

2 lectures and 6 laboratory hours per week, one term: 2½ credits.

Prerequisites: Botany 360 or 352, Zoology 350.

Text-books: McDougall, *Plant Ecology.*
Coulter, Barnes and Cowles *Text-book of Botany, Vol. II.*

454. **Plant Anatomy:** for Honour Biology students; course dealing with the cytology and anatomy of the Pteridophyta and Spermatophyta.

2 lectures and 6 laboratory hours per week, one term: 2½ credits.

Prerequisites: Botany 360, Zoology 350.

Text-books: Strasburger, *Text-book of Botany.*
Jeffery, *Anatomy of Woody Plants.*

461. **Phytopathology and Mycology:** for Honour Biology students; a course dealing with plant diseases and the classification, morphology and structure of fungi.

2 lectures and 6 laboratory hours per week, one term: 2½ credits.

Prerequisites: Botany 360, Zoology 350.

Text-books: Stevens, *Plant Disease Fungi.*
Duggar, *Fungous Diseases of Plants.*

466. **Bacteria, Yeast and Molds:** a course dealing with the culture, classification and life histories of selected groups of fungi.

2 lectures and 6 laboratory hours per week, one term: 2½ credits.

Prerequisite: Botany 461.

Text-books: Buchanan and Buchanan, *Bacteriology.*
Jordan, *General Bacteriology.*

474. **Advanced Cytology and Histology:** a continuation of 454, including the technique in connection with the preparation of materials for cytological and histological studies.

2 lectures and 6 laboratory hours per week, one term: 2½ credits.

Prerequisite: Botany 454.

Text-books and References: Sharp, *Introduction to Cytology.*
Wilson, *The Cell in Development and Heredity.*
Cawdry, *General Cytology.*
Lee, *The Microtomist's Vade-Mecum.*

Courses Leading to M.A.

553. **Plant Geography:** a course of discussions and readings on the distribution of plants and related topics: 2 credits.

References: Schimper, *Plant Geography.*
Hardy, *The Geography of Plants.*
The National Geographic Magazine.
Campbell, *Plant Geography.*
Encyclopaedia Britannica.

555. **Plant Genetics:** a course of lectures, discussions, and readings on plant breeding and associated topics: 2 credits.

Text-book: Sinnot and Dunn, *Principles of Genetics.*
References: Coulter and Coulter, *Plant Genetics.*
Underwood, *New Creations in Plant Life.*
Punnett, *Mendelism.*
De Vries, *Species and Varieties—Their Origin by Mutation.*
Babcock and Clausen, *Genetics, in Relation to Agriculture.*
Articles in various Magazines: Genetics, etc.

556. **Applied and Economic Botany:** a course dealing with the recognition of plant foods, fibres, adulterants, poisonous products, weed seeds, etc.

Discussions and 6 laboratory hours per week for both terms: 3 credits.

Text-books and References: Hanauseck, *Microscopy of Technical Products.*
Winton, *Microscopy of Vegetable Foods.*
Kraemer, *Applied and Economic Botany.*
Sargent, *Plants and their Uses.*
Brown, *Forest Products, their Manufacture and Use.*
Winton and Winton, *The Structure and Composition of Foods.*

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

561. **Advanced Phytopathology:** a course dealing with the symptoms, causes and control of the diseases of economic plants.

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

Text-books and References: Stevens, *Plant Disease Fungi.*
Stevens, *Diseases of Economic Plants.*
Heald, *Manual of Plant Diseases.*
Hesler and Whetzel, *Manual of Fruit Diseases.*
Taubenhaus, *Diseases of Truck Crops.*
Chupp, *Manual of Vegetable-Garden Diseases.*
Mason, *Spraying, Dusting, and Fumigating of Plants.*
Bulletins, Periodicals, etc.

DEPARTMENT OF ZOOLOGY

A. D. ROBERTSON, M.A., F.A.A.A.S.,	Professor
HELEN BATTLE, PH.D.,	Assistant Professor
MALCOLM FERGUSON, B.A.,	Demonstrator
J. A. MCLEOD, M.Sc.,	Demonstrator
MARGARET MACKENZIE, B.A.,	Technician and Demonstrator
ENID SMEDLEY, M.Sc.,	Demonstrator
G. N. POST, B.A.,	Demonstrator
LEONARD BOYCE,	Student Demonstrator
PAUL ELSON,	Student Demonstrator
MARY MCEWEN,	Student Demonstrator

10. **Elementary Zoology:** a course dealing with the principles of Animal Biology, illustrated by typical animal forms. First term, Invertebrate; second term, Vertebrate.

2 lectures and 3 laboratory hours per week: 3½ credits.

Prerequisite: Complete college entrance requirements.

Text-book: Wolcott, *Animal Biology.*

21. **Chordate Zoology**: for General Course students; a course dealing with selected Chordate types from the functional and comparative points of view. First term, Mammalian Anatomy (prescribed for second year students taking B.Sc. in nursing course); second term, General Chordate Zoology.

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

Prerequisites: Zoology 10 or Biological Science 11 with 60 per cent.

Text-books: Crabb, *Principles of the Functional Anatomy of the Rabbit.*
Adams, *An Introduction to the Vertebrates.*

32b. **Elementary Experimental Zoology:** for General Course students; an introductory course in simple physiological principles and elementary experimental studies on animals.

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

Prerequisite: Zoology 21.

Text-book: Rogers, *Comparative Physiology.*

33a. **Elementary Animal Ecology:** for General Course students; a course dealing with the environmental relationships of animals, including their geographical distribution.

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

Prerequisite: Zoology 21.

Tetx-book: Borradaile, *The Animal and Its Environment.*

44a. **Microscopic Anatomy of Animals:** for General Course students; a course dealing with the elementary principles of microscopic structure and development of animals.

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

Prerequisite: Zoology 21.

Text-book: Dahlgren and Kepner, *Principles of Animal Histology.*

46b. **Elementary Principles of Genetics:** for General Course Students; a course dealing with inheritance.

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

Prerequisite: Zoology 21.

Text-book: Sinnott and Dunn, *Principles of Genetics.*

Honour Courses

260. **Invertebrate Zoology:** for Honour Biology, Geology, Chemistry and B.A., M.D. students. The purpose of this course is to give a general idea of the important phyla leading up to the Chordates and to show from selected forms how the animal functions are carried out and what adaptations and advances are made as specialization increases.

2 lectures and 6 laboratory hours per week for one term: 2½ credits.

Prerequisite: Junior Group 1.

Text-books: Borradaile, *Manual of Zoology.*
Petrunkevitch, *Morphology of Invertebrate Types.*
Hyman, *A Laboratory Manual for Elementary Zoology.*

350. **Comparative Anatomy:** for Honour Biology, Geology and B.A., M.D. students; a course dealing with the structure and evolution of the Chordates.

2 lectures and 6 laboratory hours per week for the whole year: 5 credits.

Prerequisites: Zoology 260 and Botany 250.

Text-books: Kingsley, *Comparative Anatomy of the Vertebrates.*
Newman, *Vertebrate Zoology.*
Hyman, *A Laboratory Manual for Elementary Zoology.*
Hyman, *A Laboratory Manual for Comparative Anatomy.*
Holmes, *Biology of the Frog.*
Bruner, *Laboratory Directions in College Zoology.*
Bensley, *Anatomy of the Rabbit.*

357. **History and Theory of Biology:** for students in Honour Science Courses; a course dealing with the history, theory and problems of Biology.

2 lectures per week: 2 credits.

Prerequisites: Zoology 260 and Botany 250.

Text-books: Newman, *Readings in Evolution, Genetics and Eugenics.*
Lindsey, *Text-book of Evolution and Genetics.*
Locy, *Biology and its Makers.*
Locy, *The Growth of Biology.*
Nordenskiold, *A History of Biology.*
Sinnott and Dunn, *Principles of Genetics.*

451. **Animal Phylogeny:** for students in Honour Zoology; a course dealing with the phylogenetic relationships of animals, with particular attention to vertebrate descent.

4 laboratory hours per week: 2 credits.

Prerequisite: Zoology 350.

Text-books: Pratt, *Manual of the Common Invertebrate Animals.*
Pratt, *Manual of Vertebrate Animals.*
Newman, *Vertebrate Zoology.*

452. **Experimental Zoology:** for students in Honour Biology; a survey course dealing with the application of general physical and chemical principles to biological phenomena; elementary cellular physiology and animal metabolism in protozoans, coelenterates, worms, molluscs and vertebrates; regeneration, tropisms, growth, reproduction.

8 laboratory hours per week: 4 credits.

Prerequisite: Zoology 350.

Text-books: Rogers, *Comparative Physiology.*
Rogers, *Laboratory Outline in Comparative Physiology.*
Bayliss, *Principles of General Physiology.*
Bayliss, *Introduction to General Physiology.*

453. **Animal Ecology:** for Honour Biology students; a course in descriptive and physical animal ecology and zoogeo-

graphy. In this course special problems will be assigned to the students.

2 lectures and 6 laboratory hours per week for one term: 2½ credits.

Prerequisites: Zoology 350 and Botany 360.

References: Ward and Whipple, *Fresh Water Biology.*
Needham and Lloyd, *Life in Inland Waters.*
Shelford, *Animal Communities in Temperate America.*
Borradaile, *The Animal and Its Environment.*
Pearse, *Animal Ecology.*
Chapman, *Animal Ecology with Special References to Insects.*
Wallace, *The Geographical Distribution of Animals.*

454a. **Histology:** for Honour Biology students; a course dealing with the histology and cytology of animals.

8 laboratory hours per week for one term: 2 credits.

Prerequisites: Zoology 350 and Botany 360.

Text-books: Jordan, *Text-book of Histology.*
Bremer, *Text-book of Histology.*
Maximov-Bloom, *Text-book of Histology.*
Dahlgren and Kepner, *Principles of Animal Histology.*

454b. **Embryology:** for Honour Biology students; a course dealing with the embryology of animals.

8 laboratory hours per week for one term: 2 credits.

Prerequisites: Zoology 350 and Botany 360.

Text-books: McEwen, *Text-book of Vertebrate Embryology.*
Wieman, *An Introduction to Vertebrate Embryology.*
Balfour, *Comparative Embryology.*

456. **Laboratory Technique:** an optional course offered for undergraduate students in Zoology who desire training of this nature.

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

Courses Leading to the M.A. Degree

550. **Comparative Anatomy.**

551. **Phylogeny.**

552. **Experimental Zoology.**

553. **Ecology.**

554. **Histology.**

555. **Genetics.**

556. **Laboratory Technique.**
557. **History and Theories of Biology.**
558. **Seminar.**
559. **Research.**
564. **Embryology.**

DEPARTMENT OF BUSINESS ADMINISTRATION

P. H. HENSEL, M.B.A.,	Professor
L. W. SIPHERD, M.B.A.,	Assistant Professor
W. A. THOMPSON, M.B.A.,	Assistant Professor
C. C. CARROTHERS, B.A., LL.B.,	Lecturer
W. F. MARSHALL,	Lecturer
FRED P. JONES,	Assistant

Students taking courses in this department will be charged a laboratory fee of four dollars in each of the second, third and fourth years.

20. **Introduction to Business Organization:** the basic general principles underlying business administration. General business organization, promotion of business enterprises, business finance, industrial management, marketing.

2 hours per week: 2 credits.

Text-book: Gilbert and Gragg, *Introduction to Business.*

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

1 hour per week, one term: ½ credit.

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

2 hours per week: 2 credits.

Text-book: Jackson, Sanders and Sproul, *Bookkeeping and Business Knowledge.*

36. **Commercial Arithmetic:** interest, discount, commission, duties and customs, stocks and investments, partnership settlements, partial payments, equating or averaging accounts, compound interest, exchange, practical measurements and the metric system.

2 hours per week: 2 credits.

200. **Accounting:** actual cases reflecting accounting policies; application of policies; published financial statements and statements to creditors; significance to stockholders, creditors and competitors of different methods of reporting business conditions; determination of accounting policies.

For students in Honour Economics.

2 hours per week: 2 credits.

Text-book: Streightoff, *Elementary Accounting.*

250. **Accounting Principles:** the use of fundamental books, application of principles to problems of capital, revenue, maintenance, cost accounting, etc.

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

Text-books: Cole, *Fundamentals of Accounting.*
Walker, *Problems in Accounting.*
Goggin and Toner, *Accounting Principles and Procedure.*

251. **Marketing:** the first half of the course deals with the methods of marketing consumer goods and wholesale distribution; the second half-year with methods of marketing industrial goods. The problem method will be used; collateral readings; written reports.

3 hours per week: 3 credits.

Text-book: M. T. Copeland, *Problems in Marketing.*

255. **Business Statistics:** the importance of statistics to the business executive; the use and interpretation of business and economic statistics. Laboratory work is planned to develop the student's ability in presenting statistical data graphically.

2 hours recitation, 2 hours laboratory (every two weeks): 3 credits.

Text-books: Snider, *Business Statistics.*
Current Statistical Publications.

306a. **Business Papers:** receipts, releases, promissory notes, chattel notes, lien notes, instalment notes, drafts, bills of exchange, orders, due bills, deposit slips, cheques, bank drafts, draft requisitions, deposit receipts, bank pass books, bills, invoices, credit invoices, accounts, monthly statements, warehouse receipts, bills of lading, freight bills, proxies, powers of attorney, agreements, bonds, debentures, leases, instalment scrips, stock certificates, stock transfers.

3 hours per week: 1½ credits.

350. **Industrial Accounting:** the common methods of ascertaining prime costs and burden costs, and of distributing the latter over various products. Opportunities are given to gain personal experience through constructive work in industry.

3 hours per week: 3 credits.

Text-books: Sanders, *Industrial Accounting.*
Sanders, *Problems in Industrial Accounting.*

353. **Finance Problems:** individual investment policies, administration of investment houses, commercial banks and finance companies; the financial problems of a business and its relations with financial institutions.

3 hours per week: 3 credits.

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

354. **Industrial Management:** particularly the management of manufacturing concerns. Excursions to plants form part of the course.

3 hours per week: 3 credits.

Text-book: Robbins, *Problems in Industrial Management.*

356b. **Commercial Law:** the principles of contract law from the elements to the remedies for breach; such phases as agency, banking and bills of exchange, partnerships, corporations and foreign judgments.

3 hours per week: 1½ credits.

Text-books: Anson, *Contracts.*
Falconbridge, *Banking and Bills of Exchange.*

450. **Advanced Accounting:** proper accounting interpretation of many business situations, e.g. dissolution of partnerships, combination and consolidation of corporations, bankruptcy, settlement of estates; business conducted in two currencies simultaneously; purchase and sale of special types of securities.

3 hours per week, first term: 1½ credits.

Text-books: Hensel, *Problems in Advanced Accounting.*

451. **Sales Management:** a practical course in the study of marketing from the viewpoint of the manufacturer; actual cases, outside readings, a term report from each student on a sales problem of a Canadian manufacturer.

3 hours per week, first term: 1½ credits.

454. **Insurance Problems:** the course will be handled entirely by Insurance Company executives.

2 hours per week: 2 credits.

458. **Executive Problems:** designed to co-ordinate the courses of the department and to emphasize problems of business policy. From time to time, business executives appear before the class to discuss specific problems of their businesses.

3 hours per week: 3 credits.

Text-book: Current Case Materials.

459. **Research:** a report covering the constructive and finished investigation of a major problem, chosen in consultation with the head of the department and the instructor under whose guidance the investigation is made.

3 credits.

460. . **Auditing:** from the standpoint of the practising public accountant, or the treasurer, comptroller, or auditor in charge of the accounts of a commercial or industrial concern. The class room discussions are based upon actual cases.

3 hours per week, second term: 1½ credits.

Text-book: Hanson, *Problems in Auditing.*

461. **Foreign Trade:** a practical and theoretical study from the viewpoint of the business executive. Canada's position in world trade is given adequate attention.

3 hours per week, second term: 1½ credits.

Text-book: Roorbach, *Problems in Foreign Trade.*

471. **Advertising:** the place and function of advertising in business; the relation of advertising to the other functions in business management. The course touches only incidentally on the technique of advertising.

2 hours per week: 2 credits.

Text-book: Borden, *Problems in Advertising.*

One Year Intensive Course for Graduate Students

The purpose of this course (see pages 72-73) is to emphasize a few fundamental principles involved in accounting, finance, production and distribution. See also page 72.

5x0. **Accounting:** broad principles of accounting; analysis of financial statements.

5x1. **Distribution:** principles of selling and advertising; sales and advertising management; the physical distribution of commodities.

5x3. **Finance:** financial management of corporations; the accumulation and distribution of profits, the care and preservation of property, the financing of mercantile and manufacturing establishments, and the handling of various forms of securities.

5x4. **Industrial Management:** principles of factory management; industrial relations; problems of industrial organization, production, distribution and finance.

5x5. **Statistics and Statistical Services:** application of business theories to practical problems; methods of industrial analysis.

5x8. **Executive Problems:** a co-ordination of the work of the first semester through the analysis of outstanding current problems in production, marketing, finance and accounting; the executive point of view is stressed.

5x9. **Thesis:** the report of an original investigation.

Courses Leading to the M.A. Degree

The Department of Business Administration offers graduate work in business leading to the degree of M.A. in Business Administration. The hours and credits to be assigned for M.A. courses will be decided by the Department. Students desiring to take this work should consult the Head of the Department at as early a date as possible before the opening of the autumn term.

DEPARTMENT OF CHEMISTRY

University College

J. A. GUNTON, M.A., PH.D., F.C.I.C.,	Professor
JAMES W. BURNS, M.SC., F.C.I.C.,	Associate Professor
C. SIVERTZ, B.A., PH.D.,	Assistant Professor
K. W. HUNTEN, PH.D.,	Instructor
HUGH CREECH, B.A.,	Demonstrator
HORACE DE LUCA, B.A.,	Demonstrator
GERTRUDE ROWNTREE, B.A.,	Demonstrator
JEAN I. STEWART, B.A.,	Demonstrator
F. W. PYE,	Instrument Maker
JOHN DRAKE,	Curator

Alma College

*HARRIET JEAN STEWART, B.A., Instructor
†EVELYN JONES, M.A., Instructor

Assumption College

REV. T. A. MACDONALD, M.A., Professor
M. J. MULLIGAN, M.A., Lecturer

Waterloo College

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

Students taking work in this department will be required to make a deposit of five dollars per laboratory course at the time of registration to cover breakages. A refund of any remainder will be made through the office of the Executive Secretary at the end of the college year.

10. **General Chemistry:** a course of lectures and laboratory work. The laboratory work consists of experiments covering the principles of General Chemistry and Qualitative Analysis.

2 lectures, 3 laboratory hours per week: 3½ credits.

Text-books: Deming, *General Chemistry* (Wiley).
Engelder, *Qualitative Analysis* (Wiley).

11b. **Physical Science:** for Groups 2 and 3; a course of lectures and demonstrations dealing with the philosophy and applications of Chemistry. Each of the following topics is studied from the standpoint of experimental evidence, merits and application: Structure of Matter; Changes in Matter and Equilibria; Theories of Solution; Organic Chemistry. See Physics 11, page 158.

2 lectures and 3 hours laboratory or demonstration per week, second term: 1½ credits.

22. **Qualitative and Quantitative Analysis:** a laboratory course covering the principles of Qualitative and Quantitative Analysis. Optional in the Senior Group of the General Course; first term prescribed for B.Sc. in Nursing students.

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

Prerequisite: Chemistry 10.

Text-books: Deming, *Laboratory Manual in General Chemistry* (Wiley).
G. McP. Smith, *Quantitative Analysis.*

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*First term: 1933-34.
†Second term: 1933-34.

33. **Organic Chemistry:** a course of lectures dealing with the aliphatic and aromatic hydrocarbons and their derivatives; the carbohydrates, proteins and alkaloids. The laboratory work parallels the lectures and consists of the preparation and identification of some of the more common carbon compounds. Optional in the Senior Group (page 67).

2 lectures, 3 laboratory hours per week: 3½ credits.

Prerequisite: Chemistry 10.

Text-books: J. Read, *An Introduction to Organic Chemistry.*
Burns, *Laboratory Manual in Organic Chemistry.*

44. **Physical Chemistry:** a descriptive and non-mathematical treatment of the principles which govern reactions in chemical systems; optional in the Senior Group (page 67).

2 lectures, 3 laboratory hours per week: 3½ credits.

Prerequisites: Chemistry 10, 22, 33.

Honour Courses

The Honour student will be expected to write a comprehensive examination at the end of his fourth year. It will be valued at 3 credits.

200. **Second Course in Chemistry:** for Honour Science students. Chemical principles from a quantitative viewpoint.

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

Text-books: Chapin, *Second Year College Chemistry.*
Chapin, *Exercises in Second Year Chemistry* (Wiley).

250. **Second Course in Chemistry:** for Honour Chemistry students. Chemical principles from a quantitative viewpoint.

2 lectures, 11 laboratory hours per week, first term:

2 lectures, 5 laboratory hours per week, second term: 6 credits.

Text-books: Chapin, *Second Year College Chemistry.*
Chapin, *Exercises in Second Year Chemistry* (Wiley).

252b. **Quantitative Analysis.**

1 lecture and 6 laboratory hours per week, second term: 2½ credits.

Text-book: Hall, *Quantitative Analysis* (Wiley).

257a. **History and Literature of Chemistry.**

1 lecture per week, first term: ½ credit.

303. **Organic Chemistry:** a course of lectures and laboratory exercises dealing with carbon compounds. Prescribed for third year Honour Biology, B.A., M.D., and Honour Chemistry students.

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

Prerequisite: Chemistry 10, 200 or 250.

Text-book: Schmidt, *A Text-book of Organic Chemistry* (Gurney and Jackson).

354. **Elementary Physical Chemistry:** a systematic derivation of the principles which govern reactions in chemical systems; for third year Honour Chemistry students.

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

Prerequisite: Chemistry 10, 250.

Text-books: Maass and Steacie, *Physical Chemistry* (Wiley) or
Getman and Daniels, *Principles of Theoretical Chemistry* (Wiley).
Partington and Tweedie, *Calculation in Physical Chemistry* (Blackie).

444. **Physical Chemistry:** a descriptive and non-mathematical treatment of the principles which govern reactions in chemical systems, with discussion of their application in relation to the other branches of science and the industries.

2 lectures, 3 laboratory hours per week: 3½ credits.

Prerequisites: Chemistry 10, 22, 33.

451. **Electrochemistry:**

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

Prerequisite: Chemistry 354 or 444.

Text-book: Creighton and Fink, *Principles of Electrochemistry* (Wiley).

453. **Advanced Organic Chemistry:** for fourth year Honour Chemistry students.

2 lectures and 3 laboratory hours per week: 3½ credits.

Prerequisite: Chemistry 303.

Text-books: Thorpe and Whitely, *Organic Chemical Analysis* (Longmans, Green).
Schmidt, *Organic Chemistry*.
Read, *Organic Chemistry* (Bell).
Taylor, *Reactions and Symbols of Carbon Compounds* (Century).

454. **Advanced Physical Chemistry:** This course is studied in three parts in the order named: (I) 8 lectures in Mathematical Preparation, (II) 21 lectures on Introduction to Thermodynamics, (III) 21 lectures on Chemical Phenomena from the point of view of Thermodynamics and Kinetic Theory of Matter.

There will be 6 examinations during the year on the problems and theory of the work.

2 lectures and 4 laboratory hours per week: 4 credits.
Prerequisite: Chemistry 354 or 444.

Text-books: Daniels, *Mathematical Preparation for Students of Physical Chemistry* (McGraw-Hill).
Sivertz, *Outline of Thermodynamics*.
Eucken, *Fundamentals of Physical Chemistry* (McGraw-Hill).
Getman-Daniels, *Outline of Theoretical Chemistry*.

455. **Colloid Chemistry:**

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

Prerequisite: Chemistry 200 or 250.

Text-book: Kruyt, *Colloids* (Wiley).

458. **Seminar:** presentation of papers on topics selected from the current chemical journals, dealing with the more recent and fundamental developments of the science; prescribed for fourth year Honour Chemistry students and desirable for all students majoring in Chemistry. It will be valuable in preparation for the comprehensive examination, of which it forms a part.

459. **Research:** special topics and laboratory methods in the field of the student's individual interest. The second term will be devoted to a research problem upon which a report will be required as a senior thesis. For fourth year Honour Chemistry students.

9 hours per week: 2 credits, first term; 3 credits, second term.

Courses Leading to M.A.

551, 552, 553 or 554. Advanced work in Inorganic, Analytical, Organic or Physical Chemistry.

558. **Seminar and Comprehensive Examination.**

559. **Research:** arranged.

DEPARTMENT OF CLASSICS

University College

H. W. AUDEN, M.A.,	Professor
PRESIDENT W. S. FOX, PH.D., D.LITT., LL.D.,	Professor
DEAN K. P. R. NEVILLE, PH.D.,	Professor
R. E. K. PEMBERTON, M.A.,	Assistant Professor
J. D. RALPH, B. A.,	Assistant Professor
D. O. ROBSON, M.A., PH.D.,	Instructor
MRS. RHENA K. ROBSON, M.A.,	Assistant

Alma College

PRINCIPAL PERRY S. DOBSON, D.D.,	Professor

Assumption College

REV. C. P. DONOVAN, B.A.,	Professor
REV. E. J. WELTY, M.A., PH.D.,	Lecturer
REV. G. J. THOMPSON, B.A.,	Lecturer

Waterloo College

DEAN WILLIS C. FROATS, M.A., B.PAED.,	Professor
REV. C. H. LITTLE, B.A., S.T.D., D.D.,	Professor of Biblical Greek
REV. G. SANDROCK,	Professor of Biblical Greek and Latin
REV. S. W. HIRTLE, B.A.,	Associate Professor
O. F. BALE, M.A.,	Assistant Professor

Huron College

PRINCIPAL C. C. WALLER, M.A., D.D.,	Professor
*REV. F. ANDERSON, M.A., D.D.,	Professor
REV. J. H. CRAIG, M.A., B.D.,	Lecturer

LATIN

Each student in any of the Latin courses is required to have at least one of the following Latin grammars: Bennett, Allyn and Bacon, Boston; Allen and Greenough, Ginn & Co., New York; Gildersleeve and Lodge, Heath & Co., Boston; and an Elementary Latin Dictionary, American Book Co.

Pass students may find Allen's Elementary Latin Grammar (Clarendon Press) sufficient.

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*On leave, 1933-34.

10. Caesar, *De Bello Gallico V*, Chap. 23-end; Cicero, *Pro Lege Manilia*, selections; Latin Poetry, selections; composition and sight translation.

3 hours per week: 3 credits.

Prerequisite: Middle School Latin.

Text-books: Caesar's *Gallic War*, Bk. V.
Jolliffe and Tracy, *Cicero, Pro Lege Manilia* (Macmillan).
Neville et al, *Latin Poetry Book*, Part I (Macmillan).
Tracey and Law, *Latin Prose Composition* (Clarke, Irwin).

20. Pliny, *Letters;* Sallust, *Jugurtha;* Virgil, *Aeneid VI;* selected Latin poetry; composition; sight translation.

4 hours per week: 4 credits.

Prerequisite: Latin 10 or Upper School Latin.

Text-books: C. Georgin, *Pline le Jeune, Lettres Choisies* (Hatier).
Page, *Virgil, Aeneid I-VI* (Macmillan).
W. C. Summers, *C. Sallusti Crispi Jugurtha* (Cambridge).
Rieu, *A Book of Latin Verse* (Oxford).
North and Hillard, *Latin Composition* (Rivington).

24. **Mediaeval Latin:** (a) a survey of Mediaeval Latin, (b) Classical Thought with special reference to Drama, Philosophy, etc. For students in all Modern Languages and optional for selected students in other Honour Courses. Offered in University College only.

3 hours per week: 3 credits.

30. Cicero, *De Amicitia;* Catullus; Virgil, selections from the *Bucolics* and *Georgics;* Tacitus, *Agricola;* lectures on the literature and the history of the Republic; composition, sight translation.

3 hours per week: 3 credits.

Prerequisite: Latin 20.

Text-books: E. P. Simpson, *Select Poems of Catullus* (Macmillan).
E. W. Bowen, *Cicero's De Amicitia* (Heath).
Page, *Virgil, Bucolics and Georgics* (Macmillan).
Norwood and Watt, *Tacitus, Agricola* (University Tutorial Press).
Auden, *Latin Composition* (Blackwoods).

35x. Survey Course in **Patristic** and **Early Mediaeval Latin:** prose and poetry selections from St. Hilary, St. Damasus, St. Ambrose and the Ambrosiani, St. Augustine and the Augustiniani, Prudentius, Sedulius, Eusebius, St. Jerome and the Vulgate, St. Leo the Great, Boethius, Fortunatus, Eugenius, St. Gregory the Great, Venerable Bede, Alcuin, Rebanus Maurus; lectures on the origin of Ecclesiastical Latin, the form and meter of mediaeval poetry, mediaeval thought,

the formation of the Liturgical books; composition and Latin syntax. Offered in Ursuline College only.

3 hours per week: 3 credits.

40. Horace, *Satires;* Juvenal, *Satires;* Virgil, *Aeneid I-V;* composition; sight translation.

3 hours per week; 3 credits.

Prerequisite: Latin 30.

Text-books: E. P. Morris, *Horace, Satires and Epistles* (American).
Hardy, *Juvenal* (Macmillan).
Page, *Virgil, Aeneid I-VI* (Macmillan).

45x. Survey Course in **Scholastic, Late Mediaeval and Modern Ecclesiastical Latin:** prose and poetry selections from St. Peter Damien, Abelard, St. Bernard, Bernard of Cluny, Adam of St. Victor, Thomas of Celano, St. Bonaventure, St. Thomas Aquinas, Jacoponus, Cajetan, the Liturgical Books, the Acts and Letters of Modern Popes; lectures on the development of Latin education in the middle ages, changes in Latin style, the Renaissance, modern Latin; composition and Latin letter-writing. Offered in Ursuline College only.

3 hours per week: 3 credits.

Honour Courses

Comprehensive examinations will be set for all Honour students at the end of their fourth year.

Every honour student is expected to possess: Gow, *A Companion to School Classics* (Macmillan).

207b. **Roman History:** from the earliest times down to the end of the period of the Antonines. Lectures, readings and reports. Prescribed for students in Honour Classics and optional with the consent of the instructor for other qualified students.

2 hours per week: 1 credit.

Text-books: Botsford, *History of Rome* (Macmillan) or
Frank, *Economic History of Rome* (Johns Hopkins Press) or
Pelham, *History of Rome.*

230. Cicero, *De Amicitia;* Catullus; Virgil, selections from *Bucolics* and *Georgics;* Tacitus, *Agricola;* the literature and the history of the Republic.

2 hours per week: 2 credits.

Prerequisite: Group 3, page 66.

Text-books: Simpson, *Select Poems of Catullus* (Macmillan).
Bowen, *Cicero, De Amicitia* (Heath).
Page, *Virgil, Bucolics and Georgics* (Macmillan).
Norwood and Watt, *Tacitus, Agricola* (University Tutorial Press).

250. Selections from Propertius, Tibullus, Ovid; Horace, *Epistles;* Cicero, *De Senectute.*

1 hour per week: 1 credit.

Prerequisite: Group 3, page 66.

Text-books: K. P. Harrington, *The Roman Elegiac Poets* (American).
E. P. Morris, *Horace, Satires and Epistles* (American).
E. W. Bowen, *Cicero, De Senectute* (Heath).

251. **Composition and Sight Translation.**

2 hours per week: 2 credits.

Prerequisite: Group 3, page 66.

340. Horace, *Satires* and *Odes;* Juvenal, *Satires;* Virgil, *Aeneid I-V.*

2 hours per week: 2 credits.

Prerequisite: Latin 230.

Text-books: E. P. Morris, *Horace, Satires and Epistles* (American).
Hardy, *Juvenal* (Macmillan).
Page, *Horace, Odes* (Macmillan).
Page, *Virgil, Aeneid I-VI* (Macmillan).

350. **Cicero:** the history of his life and times. *De Officiis, Pro Milone, Philippic II, Letters.*

2 hours per week: 2 credits.

Text-books: Holden, *Cicero De Officiis III* (Cambridge).
How, *Cicero's Select Letters* (Oxford).

351. **Composition and sight translation.**

1 hour per week: 1 credit.

Prerequisite: Latin 251.

352. **Roman Comedy** and an introduction to the history of the Latin Language. Plautus, *Trinummus;* Terence, *Phormio.*

1 hour per week: 1 credit.

Text-books: Fairclough, *The Trinummus of Plautus* (Macmillan).
Bond and Walpole, *Terence, Phormio* (Macmillan).

450. Livy, *XXI-XXX;* Tacitus, *Annals I, II, III.*

2 hours per week: 2 credits.

Text-books: C. Georgin, *Tite-Live, Histoire: Troisième Décade* (Hatier).
Furneaux, *Tacitus, Annals* (Oxford).

451. **Composition and sight translation.**

1 hour per week: 1 credit.

Prerequisite: Latin 351.

452. Cicero, *Pro Archia; In Catilinam;* Virgil, *Aeneid, VII-XII;* Lucretius *I-III;* Quintilian, Book *X.*

2 hours per week: 2 credits.

Prerequisites: Latin 340, 350.

Text-books: J. H. W. Lee, *Lucretius, De Rerum Natura I-III* (Macmillan).
Peterson, *Quintilian, Bk. X* (School Edition) (Oxford).
Page, *Virgil, Aeneid, VII-XII* (Macmillan).

453. **Philology, Epigraphy, Palaeography, Archaeology:** lectures and readings.

3 hours per week, one term: 1½ credits.

Prerequisites: Latin 340, 350.

Reference: Laurand, *Manuel des Etudes Grecques et Latines* (Picard).

GREEK

1. **Elementary Greek:** a preparatory course leading up to the standard of Matriculation (omitting Homer) and designed for those who wish to begin the study of Greek after entering the University.

In order that this course may count for credit towards a degree Greek must be studied for three years. Arts students, on completing this course, will take Greek 10 and 20. Theological students, on completing this course, will take Greek 25 and 35.

4 hours per week: 4 credits.

Prerequisite: complete college entrance without Greek.

Text-books: White, *First Greek Book* (Ginn).
Philpotts and Jerram, *Easy Selections from Xenophon,* Chapters 4, 5 (Macmillan).
Colson, *Greek Reader, Pt. IV* (Macmillan).

10. Xenophon, *Hellenica;* Colson's *Greek Reader, Part VIII;* Homer, *Iliad I,* 1-363, 428-492, 560-600; composition; sight translation.

3 hours per week: 3 credits.

Prerequisite: Junior Matriculation Greek or Greek 1.

Text-books: J. S. Philpotts, *Selections Adapted from Xenophon,* Sections, I, II, III (Oxford).
Colson, *Greek Reader* (Macmillan).
Wainwright, *Homer, Iliad, Book I.*
North and Hillard, *Greek Prose Composition* (Copp, Clark).

20. Plato, *Apology;* Thucydides *IV;* Euripides, *Hippolytus;* Demosthenes, *In Cononem, In Calliclem;* composition; sight translation.

4 hours per week: 4 credits.

Prerequisite: Greek 10 or Honour Matriculation Greek.

Text-books: G. Stock, *Plato, Apology and Crito* (Oxford).
C. E. Graves, *Thucydides IV* (Macmillan).
Swift, *Demosthenes Against Conon and Callicles* (Methuen).
North and Hillard, *Greek Prose Composition* (Copp, Clark).

30. Euripides, *Medea;* Sophocles, *Antigone;* Aeschylus *Prometheus Vinctus;* Herodotus *VII;* lectures on the theatre and the development of the drama; composition; sight translation.

3 hours per week: 3 credits.

Prerequisite: Greek 20.

Text-books: Moore-Allen, *The Medea of Euripides* (Ginn).
R. C. Jebb, *Sophocles, Antigone* (Cambridge).
Allen-Wecklein, *Aeschylus, Prometheus* (Ginn).
A. Sidgwick, *Greek Prose Composition* (Ginn).
A. F. Butler, *Herodotus VII* (Macmillan).

40. Sophocles, *Oedipus Rex;* Euripides, *Iphigenia in Tauris;* Aristophanes, *Clouds;* Demosthenes, *Olynthiacs;* lectures on the social, religious and political life of Athens in the age of Pericles; composition; sight translation.

3 hours per week: 3 credits.

Prerequisite: Greek 30.

Text-books: Campbell and Abbott, *Sophocles, Oedipus Rex* (Oxford).
C. S. Jerram, *Euripides, Iphigenia in Tauris* (Oxford).
W. W. Merry, *Aristophanes, Clouds* (Oxford).
T. R. Glover, *Demosthenes, Olynthiacs* (Cambridge).
A. Sidgwick, *Greek Prose Composition* (Ginn).

Honour Courses

Comprehensive examinations will be demanded of each student at the end of the fourth year.

Every honour student is expected to possess: Gow, *A Companion to School Classics* (Macmillan).

207a. **Greek History:** from earliest times down to 146 B.C. Lectures, readings and reports. Prescribed for students in Honour Classics and optional with the consent of the instructor for other properly qualified students.

2 hours per week: 1 credit.

Text-book: Bury, *History of Greece.*

230. Euripides, *Medea;* Sophocles, *Antigone;* Aeschylus, *Prometheus Vinctus;* Herodotus *VII;* the theatre and the drama.

2 hours per week: 2 credits.

Prerequisite: Group 3, page 66.

Text-books: R. C. Jebb, *Sophocles, Antigone* (Cambridge).
Moore-Allen, *The Medea of Euripides* (Ginn).
Allen-Wecklein, *Aeschylus, Prometheus* (Ginn).
A. F. Butler, *Herodotus VII* (Macmillan).

251. **Composition and sight translation.**

2 hours per week: 2 credits.

Prerequisite: Group 3, page 66.

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

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

2 hours per week: 2 credits.

Prerequisite: Greek 230.

Text-books: Campbell and Abbott, *Sophocles, Oedipus Rex* (Oxford).
C. P. Jerram, *Euripides, Iphigenia in Tauris* (Oxford).
W. W. Merry, *Aristophanes, Clouds* (Oxford).

350. Homer, *Odyssey* (selections); Thucydides *I, II, III.*

2 hours per week: 2 credits.

Prerequisite: Greek 230.

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

351. **Composition and sight translation.**

1 hour per week: 1 credit.

Prerequisite: Greek 251.

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

352. **Introduction to Greek Philosophy:** Plato's *Republic, Books I-IV.*

1 hour per week: 1 credit.

Prerequisite: Greek 230.

353. Homer, *Iliad IX, XVIII, XXII;* Sophocles, *Oedipus Coloneus;* Theocritus.

1 hour per week: 1 credit.

Prerequisite: Greek 230.

Text-books: J. H. Pratt, *Homer, Iliad I-X* (Macmillan).
D. B. Monro, *Homer's Iliad XII-XXIV* (Oxford).
Campbell and Abbott, *Sophocles, Oedipus Coloneus* (Oxford) (Jebb's Edition, Abridged).

450. Aeschylus, *Agamemnon;* Demosthenes, *De Corona;* Aeschines, *In Ctesiphontem;* selections from Lysias.

2 hours per week: 2 credits.

Prerequisite: Greek 340, 350.

Text-books: A. Sidgwick, *Aeschylus, Agamemnon* (Oxford).
E. S. Shuckburgh, *Lysiae Orationes XVI* (Macmillan).
M. V. Humphreys, *Demosthenes, On the Crown* (American).
Gwatkin and Shuckburgh, *Aeschines, In Ctesiphontem* (Macmillan).

451. **Composition and sight translation.**

1 hour per week: 1 credit.

Prerequisite: Greek 351.

452. Plato, *Republic V-X;* Aristotle, *Ethics I, IV, X.*

3 hours per week: 3 credits.

Prerequisite: Greek 340, 350.

453. **Philology, Epigraphy, Palaeography, Archaeology:** lectures and readings. See Latin 453.

3 hours per week, one term: 1½ credits.

Prerequisite: Greek 340, 350.

Biblical Greek

N.B.—The purpose of the following courses is to provide Theological students with such instruction in Biblical Greek as will enable them to make practical use of it in their subsequent work and further enable them to consult the originals of the important theological works of Greek patristic writers.

The fullest and most compact Lexicon is entitled *A Greek-English Lexicon to the New Testament,* thirteenth edition, revised by Rev. T. S. Green, published by S. Bagster and Sons, London; James Pott and Co., New York.

25. The Gospels of St. Mark and St. John; Galatians; The Acts of the Apostles; composition; sight translation.

3 hours per week: 3 credits.

Prerequisite: Greek 1 or Middle School Greek.

Text-books: Scrivener, *Greek Testament (Fourth Edition)* (Bell).
Nunn, *Syntax of New Testament Greek* (Cambridge).
Volumes in *Cambridge Greek Testament Series.*

35. The Gospel of St. Matthew; I and II Corinthians; Clement's Epistle to the Corinthians; lectures on the development and character of Biblical Greek; composition; sight translation.

3 hours per week: 3 credits.

Text-books: See Greek 25.
The Epistle of Clement of Rome (S. P. C. K. *Texts for Students, No. 7*).
References: Gregg, *The Epistle of Clement* (S. P. C. K.).
Lightfoot, *Apostolic Fathers; Clement of Rome, 2 vols.* (Macmillan).
Moulton, *Grammar of New Testament Greek.*

The instructors reserve the right to interchange the authors in Greek 35 and 45.

45. The Gospel of St. Luke; Romans; Hebrews; the Pastoral Epistles; Selections from the LXX, from the Greek Papyri and from early Christian writers; lectures on textual criticism; composition; sight translation.

3 hours per week: 3 credits.

Prerequisite: Greek 35.

Text-books: See Greek 25.
Kenyon, *Handbook to the Textual Criticism of the New Testament* (Macmillan).
Kirsopp Lake, *The Text of the New Testament* (Rivington).
Conybeare and Stock, *Selections from the L X X* (Ginn).
Milligan, *Selections from The Greek Papyri* (Cambridge).
Gwatkin, *Selections from Early Christian Writers* (Macmillan).

49x. New Testament Greek with special attention to Grammar and Syntax. The Gospel of St. John and the Book of Acts will be read, the former in connection with the study of the Harmony of the Gospels. Other New Testament literature will be read at sight, in order to gain a knowledge of the different styles of the various writers. For Waterloo College students only.

3 hours per week: 3 credits.

Prerequisite: Greek 20.

Text-books: *Novum Testamentum Graece.*
Eberhard Nestle, *A Syntax of New Testament Greek* (Munn).
White, *First Greek Book.*
Robertson, *A Harmony of the Gospels.*

DEPARTMENT OF ECONOMIC AND POLITICAL SCIENCE

University College

H. A. LOGAN, PH.D.,	Professor
E. E. REILLY, B.S.A., M.S.,	Associate Professor
*M. K. INMAN, M.A.,	Assistant Professor
W. B. HARVEY, M.A.,	Assistant Professor
HELEN E. SMYTH, B.A.,	Lecturer

Waterloo College

J. H. SMYTH, B.A., Barrister-at-Law,	Lecturer

Assumption College

REV. V. J. GUINAN, M.A.,	Professor
G. R. HORNE, B.A.,	Instructor
P. MARTIN, M.A., LL.M.,	Lecturer

*On leave, 1933-34.

20. **Introduction to Economics:** the elementary economic concepts; production, exchange, consumption and distribution of wealth; money and banking; business cycle; international trade; labour problems; public finance; government regulation; the evolution of our economic system and its legal setting at the present time.

3 hours per week: 3 credits.

Text-book: Logan, *Materials for Economics*.

30. **Civics:** Ideals and implications of democratic citizenship; our economic organization viewed from the citizen's angle; our political organization; political control over economic endeavour; the formation of public opinion; social problems; training for leadership, for rank and file citizenship, the civil service; the menace of uneducated patriotism.

3 hours per week: 3 credits.

32a. **Introduction to Political Science:** a study of the state, its origin, form and activities, and a study of the working of governments, particularly those of the United Kingdom, Canada, the United States, Germany, France and Switzerland. Reference will also be made to the governments of the new states of Central Europe and of Russia, and to the League of Nations.

3 hours per week, first term: 1½ credits.

32b. **Municipal Government:** the nature, development and problems of municipal government; including a comparative analysis of European, American and Canadian systems. Considerable attention will be given to such topics as safety, order and justice, health, education, city planning, municipal utilities and finance.

2 hours per week, second term: 1 credit.

Text-book: Maxey, *Urban Democracy*.

33. **Financial Organization:** the modern financial system. Money and credit, investment banks, savings banks and trust companies, stock exchanges and other institutions from the standpoint of functions performed. Emphasis will be placed upon the study of commercial banking, especially with respect to Canada, the United States and Great Britain.

2 hours per week: 2 credits.

46. **Labour, Theory and Problems:** during the first term an inquiry will be made into the causes of industrial unrest and the remedies advocated. Such topics as unemployment, in-

adequate wages and industrial accidents, trade unionism, labour legislation and employers' remedies will be considered. The second term will include a study of various theories of social reform and suggested types of social organization; utopias, socialism, syndicalism, the indictment of capitalism and the latter's defense.

2 hours per week: 2 credits.

48. **Introduction to Sociology:** an analysis of group life and mental interaction; conflict and accommodation of persons, races, nations and classes; assimilation; change and its maladjustments; examination of our social institutions; social ecology; the nature of social control; the community as an exhibit of forces working for control; community organization.

3 hours per week, one term: 1½ credits.

Honour Courses

232a. Identical with 32a.

232b. Identical with 32b.

233. Identical with 33.

251b. **Transportation:** railways, their historical development, characteristics, construction, organization, operation, rates, services, finance, ownership and control; inland waterways; ocean transportation; commercial aviation; urban and rural transportation as affected by highways, motor vehicles and street railways.

2 hours per week, second term: 1 credit.

257a. **Economic History of Europe:** the economic foundations from antiquity, the developments of the Middle Ages, Mercantilism, the Industrial Revolution, and *laissez faire*.

2 hours per week, first term: 1 credit.

257b. **Economic History of North America:** the geographical and historical conditions which have given rise to the current economic problems of the United States and Canada. Special attention will be given to Canadian problems in the way of assigned readings and reports.

2 hours per week, second term: 1 credit.

259. **Economic and Commercial Geography:** the distribution and characteristics of major economic activities

insofar as they are related to the natural environment. Special attention will be paid to the economic geography of the British Empire.

3 hours per week, first term: 1½ credits.

Text-book: Whitbeck and Finch, *Economic Geography.*

346. Identical with 46.

348. Identical with 48.

351b. **International Trade and Commercial Policies:** international values, foreign exchange and international aspects of the commercial policies of governments.

2 hours per week, second term: 1 credit.

352. **Political Parties:** not given 1934-35.

3 hours per week, first term: 1½ credits.

353a. **Business Finance:** the financial management of corporations; raising working capital by trade credit and bank loans; comparison of various types of stock, bond and note issues as methods of securing capital; a study of budget making and balance sheet analysis.

2 hours per week, first term; 1 credit.

Text-book: Gerstenberg, *Financial Organization and Management.*

354a. **Agricultural Economics:** the place of agriculture in economic life, organization for agricultural production, factors chiefly responsible for success or failure, independent and cooperative marketing of agricultural products, the financing of agriculture, government policies and aid.

2 hours per week, first term: 1 credit.

355a. **Statistical Methods:** the theory and methods involved in the tabulation, analysis and presentation of statistical data; tables, graphs, probability, descriptive measures and correlation—linear and non-linear, partial and multiple.

3 hours per week, first term: 1½ credits.

Text-book: F. C. Mills, *Statistical Methods.*

363b. **Investments:** the social significance of investments, tendencies in saving habits, individual and institutional investing, the principles of investments, analysis and evaluation of securities, tendencies in the merits and worth of securities.

2 hours per week, second term: 1 credit.

450a. **History of Economic Thought:** a survey of the history and the present outlook of economic theory.
3 hours per week: 1½ credits.

452b. **History of Political Thought:** a survey of the development of political theory from the classical period to the present.
3 hours per week: 1½ credits.

453b. **Public Finance:** a study of the principles and problems of governmental expenditures and revenues.
2 hours per week, one term: 1 credit.

458. **Social Control of Business Enterprise:** not given in 1934-35.
2 hours per week, one term: 1 credit.

460b. **Contemporary Economic Theory:** a seminar course. Not given in 1934-35.
3 hours per week, second term: 1½ credits.

462b. **Contemporary Political Theory:** not given in 1934-35.
3 hours per week, second term: 1½ credits.

463. **International Financial Relations:** not given in 1934-35.
2 hours per week, one term: 1 credit.

468. **Sociology II:** a course in selected social problems: defectives, delinquency and crime, poverty and dependency.
2 hours per week, one term: 1 credit.

478. **Sociology III:** not given in 1934-35.
3 hours per week, one term: 1½ credits.

488. **Population Problems:** not given in 1934-35.
2 hours per week, one term: 1 credit.

Courses Leading to the Degree of M.A.

Advanced courses in Economic and Political Theory, History, Finance and Sociology.

Government and Law

C. C. CARROTHERS, B.A., LL.B., Lecturer

Groups 305-308 and 405-408 will be given in alternate years; 305-308 in 1934-35.

305. **Roman Law:** a review of the customary law of the regal period at Rome, with a short history of the law from the time of the Decemviri to the death of Justinian, giving also an account of the growth of the unwritten law, praetor's edict, the formulary system, the jus naturae, the legislation during the Republic and under the Empire and the Justinian Code.

1 hour per week, one term: ½ credit.

Text-book: Sanders, *The Institutes of Justinian.*

306. **English Law:** the law before the Norman Conquest, the Saxon Invasion, and the changes wrought by the Conqueror and his successors; the growth of the Feudal System, and the changes introduced by the legislation of Henry II, Edward I and Edward III.

1 hour per week, one term: ½ credit.

Text-books: Pollock and Maitland, *History of English Law, Vol. I.*
Storry-Deans, *Students' Legal History.*

307. **Jurisprudence:** general and historical jurisprudence, the analysis of law and of rights, the sources of law, a general classification of rights, adjective private law, public law and its various divisions.

1 hour per week, one term: ½ credit.

Text-books: Holland, *Elements of Jurisprudence.*
Sir Henry Maine, *Ancient Law.*

308. **Theory of Political Obligation:** freedom in relation to the individual; man in a state of nature; the theory of contract as developed by Spinoza, Locke and Hobbs; Rousseau's Social Contract; the modern idea of consent.

1 hour per week, one term: ½ credit.

405. **English Constitutional Law:** the law of the English Constitution, with a sketch of the two Houses of Parliament, the Prerogatives, the Conventions and Courts.

1 hour per week, one term: ½ credit.

Text-books: Dicey, *Law of the Constitution.*
Anson, *Law and Custom of the Constitution.*

406. **Federal Constitutional Law:** the leading features of Federal Government as exhibited in the most prominent Federal States; constitutions of Canada, Australia, Switzerland and the United States.

1 hour per week, one term: ½ credit.

Text-books: Lefroy, *Federal System and Leading Cases in Federal Constitutional Law.* Woodrow Wilson, *Congressional Government.*

407. **Colonial Constitutional Law:** the various forms of Colonial Government, with special reference to the self-governing colonies.

1 hour per week, one term: ½ credit.

Text-book: Todd, *Parliamentary Government in the Colonies* (to p. 318).

408. **Public International Law:** the essential principles are discussed and special reference made to current illustrations.

1 hour per week, one term: ½ credit.

Text-book: Westlake, *International Law.*

DEPARTMENT OF ENGLISH

University College

W. F. TAMBLYN, PH.D.,	Professor
J. A. SPENCELEY, M.A.,	Professor
MRS. E. K. ALBRIGHT, M.A.,	Assistant Professor
F. STILING, M.A.,	Instructor
JEAN I. WALKER, L.C.M.,	Instructor
ELEANOR DOHERTY, M.A.,	Lecturer
DORIS LIDDICOATT, M.A.,	Lecturer
MRS. JEAN T. NEVILLE, M.A.,	Lecturer
HELEN E. SMYTH, B.A.,	Lecturer
MARION WRIGHTON, B.A.,	Lecturer
HELEN M. ALLISON, B.A.,	Assistant
MRS. LOUISE L. COLLIN, B.A.,	Assistant
CHRISTINE MACKERRACHER, M.A.,	Assistant

Alma College

HELEN HARDY, B.A.,	Instructor
ISABEL MCLEAN, B.L.I.,	Instructor

Assumption College

REV. E. G. LEE, B.A.,	Professor
REV. N. J. MURPHY, B.A.,	Lecturer
REV. J. S. MURPHY, B.A.,	Lecturer

Ursuline College

REV. T. J. MCCARTHY, M.A., S.T.D., Instructor
M. M. ST. JAMES, M.A., Instructor

Waterloo College

CARL F. KLINCK, M.A., Professor
REV. S. W. HIRTLE, B.A., Assistant Professor

Huron College

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

10 Shakespeare and Prose Selections.

First term:

A. A critical study of:
Shakespeare, *Henry IV, Parts I and II; King Lear; Midsummer Night's Dream.*

B. A careful reading of the following plays:
Everyman; The Shoemaker's Holiday (Dekker); Shakespeare, *The Taming of the Shrew, The Tempest.*

C. A careful reading of selections in *English Prose, Selected English Essays* and Boswell's *Johnson.*

2 hours per week: 2 credits.

Text-books: Deighton's Shakespeare (Macmillan), or The New Hudson (Ginn), or Arden (Copp, Clark).
G. N. Pocock, *The Shoemaker's Holiday* (Dent).
Raleigh, *Shakespeare* (Macmillan).
J. Bailey, *A Shorter Boswell* (Nelson).
J. Buchan, *History of English Literature* (Nelson).
English Prose, I, II, III (Oxford).
Selected English Essays (Oxford).

11. **Composition:** the mechanics of writing; exercises and essays required; prescribed for all those in the first year.

1 hour per week; 1 credit.

Text-books: Foerster and Steadman, *Writing and Thinking* (Houghton, Mifflin).
N. Hodgins (Editor), *Some Canadian Essays* (Nelson).

19. **Speech Education:** the purpose of this course is to illustrate the principles of public speaking in the practical and familiar types of address. The ends of speech such as exposition, belief, action and entertainment are shown as determining the selection and arrangement of material. Assignments are given to test the speaker's ability to select, arrange and deliver extemporaneously and effectively.

1 hour per week: 1 credit.

Text-book: Horner, *Elements of Public Speech* (Heath).

20. **General Literature:** General Course from Chaucer to the present day.

2 hours per week: 2 credits.

Text-books: Cunliffe, Pyre and Young, *Century Readings in English Literature.*
J. Buchan, *History of English Literature* (Nelson).
Shakespeare, *Romeo and Juliet, Hamlet* (Macmillan or Ginn).
Scott, *The Abbot* (Everyman's Library).
Bunyan, *Pilgrim's Progress* (Nelson).
Hardy, *Far from the Madding Crowd* (Macmillan).
Conrad, *Youth* (Dent).
Legouis and Cazamian, *History of English Literature* (Dent).

021. **Composition:** a review of English grammar and the mechanics of writing; exercises, essays and conferences required; prescribed for students of the second year who have difficulty with English 21.

1 hour per week: no credit.

Text-book: Rankin, Thorpe and Solve, *College Composition* (Harper).

21. **Composition and Rhetoric:** relation of material to style; exercises, essays and conferences required.

Prerequisite: English 021 and 11.

1 hour per week: 1 credit.

Text-book: Rankin, Thorpe and Solve, *College Composition* (Harper).

30. **Nineteenth Century Literature:** from Blake to Arnold.

Essays will be required during the session on subjects connected with the literature read in this course.

3 hours per week: 3 credits.

Text-books: *British Poets of the Nineteenth Century* (Sanborn).
Scott, *The Bride of Lammermoor* (Nelson).
Alden, *Readings in English Prose of the Nineteenth Century* (Houghton, Mifflin).
Austen, *Mansfield Park* (Nelson).
Hardy, *The Woodlanders* (Dent).
Dickens, *Martin Chuzzlewit* (Nelson).
C. H. Herford, *Age of Wordsworth* (Bell).
Jones, *Critical Essays of the Nineteenth Century* (Oxford, World's Classics).
Meredith, *Ordeal of Richard Feverel.*
Raleigh, *Poems of Blake* (Oxford).
H. Walker, *Age of Tennyson* (Bell).

31. **Composition, Practical Exposition:** the methods of exposition applied to the business letter and the report.

Prerequisite: English 21.

1 hour per week: 1 credit.

Text-book: Saunders, *Effective Business English* (Macmillan).

34. **Modern English Prose:** a study of contemporary prose writing on politics, economics, science and philosophy. The books studied provide material for seminars, discussions,

and written themes. Open only to students registered in the following Honour courses: Business Administration, Business Administration and Secretarial Science, Economic and Political Science, Mathematics and Physics, Philosophy and Psychology.

3 hours per week: 3 credits.

40. **Recent English Literature:** Poetry since Tennyson and prose since Ruskin.

2 hours per week: 2 credits.

Text-books: Page, *British Poets of the Nineteenth Century* (Sanborn).
Untermeyer, *Modern British Poetry* (Harcourt, Brace).
Chesterton, *The Victorian Age in Literature* (Home University Library).
T. Hardy, *The Return of the Native* (Macmillan).
A. Birrell, *Obiter Dicta* (Copp Clark).
Stevenson, *Virginibus Puerisque*, ed. J. H. Fowler (Macmillan).
Stevenson, *Talk and Talkers* (ed. W. L. Phelps).
Shaw, *Fanny's First Play* (Constable).
Selected Modern English Essays (Oxford).
Selected Modern English Essays: Second Series (Oxford).
A. C. Bradley, *Poetry for Poetry's Sake* (in his *Oxford Lectures*, Macmillan).
A. Bennett, *Old Wives' Tale*.
Belloc, *Marie Antoinette*.

42. **Mediaeval Literature:** a short study of the period culminating in Chaucer.

1 hour per week: 1 credit.

Text-books: *Geoffrey of Monmouth*, ed. Evans (Dent).
Dante, *Divine Comedy*, ed. Oelsner (Dent).
Piers Plowman (Everyman's Library, Dent).
Gawain and the Green Knight (Dent).
Perle, ed. Coulton (Methuen).
Gummere, *Ballads* (Ginn).

48. **American and Canadian Literature:** a study of American and Canadian prose and poetry. Optional with English 42 for students in the fourth year of the General Course and open to graduate students.

2 hours per week: 2 credits.

Honour Courses

210. The same prescription as for English 10 with the addition of a critical study of *Romeo and Juliet* and a careful reading of *Twelfth Night* in the first term, and a careful reading of *King Lear* in the second term.

2 hours per week: 2 credits.

250. **Epochal Works:**

2 hours per week: 2 credits.

Text-books: Spenser, *Faerie Queene V*, ed. Gough (Oxford).
Wordsworth, *Poems* (Oxford).
Arnold, *Poems* (Nelson).
The English Parnassus (Oxford).
Austen, *Northanger Abbey* (Nelson).
Scott, *The Antiquary* (Nelson).
E. Bronte, *Wuthering Heights*.

251. **Composition—The Literary Essay:** a study of the development of the essay from Elizabethan times to the present, and a critical study of certain modern examples; essays, readings, and conferences prescribed.

Prerequisite: English 21.

1 hour per week: 1 credit.

Text-books: Newbolt, *Essays and Essayists* (Nelson).
Boas, *Modern English Prose* (Macmillan).
Pritchard, *Essays of Today* (Harrap).

330. Identical with English 30.

342. Identical with English 42.

352. **English Literature before Chaucer:** the prescribed readings are arranged to illustrate the development of English Literature from Widsith to Chaucer.

1 hour per week: 1 credit.

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

1 hour per week: 1 credit.

Text-Book: J. W. Bright, *An Anglo-Saxon Reader* (Holt).

362. **Chaucer:** a reading course.

1 hour per week: 1 credit.

440. Identical with English 40.

450. **Elizabethan and Caroline Literature:**

2 hours per week: 2 credits.

Text-books: *The English Parnassus* (Oxford).
English Verse, Vols. I and II, ed. Peacock (Oxford).
Spenser, *Faerie Queene, Book I* (Macmillan).
Milton, *Poëms* (Macmillan).
Hakluyt, *Voyages of Drake and Gilbert* (Oxford).
Browne, *Religio Medici* (Macmillan).
Craik, *English Prose, Vol. II* (Macmillan).

453. **The History of the English Language:** English Language from the earliest records to the present, with special reference to the historical explanation of living forms.

1 hour per week: 1 credit.

References: The various histories of the English Language by Emerson, Smith, Jespersen, Lounsbury, Wyld, Bradley, Krapp and Sweet.

454. **English Thought and Literary Criticism:** in the Nineteenth Century.

1 hour per week: 1 credit.

456. **The Elizabethan Drama:** the aim of this course is to trace the rise of English Drama and to study Shakespeare as a dramatist.

2 hours per week: 2 credits.

Text-books: J. Q. Adams, *Chief Pre-Shakespearean Dramas.*
W. A. Neilson, *The Chief Elizabethan Dramatists.*
Shakespeare, Macmillan or Ginn Editions.

Courses Leading to the Degree of M.A.

550. **Seventeenth Century Prose:** a study of the prose written between 1599 and 1660. Not offered in 1934-35.

554. **Contemporary English Literary Criticism** (being a continuation of 454B):

Recent development in aesthetics, in the theory and practice of poetry, metre and prose rhythms, in reviewing, and in the study of literary forms, such as lyric, epic, sonnet, epigram and essay, will be surveyed.

Among the references in this course are the following:

Bosanquet, *History of Aesthetic* (1917).
G. Santayana, *Interpretations of Poetry and Religion, Three Philosophical Poets, Reason in Art.*
Croce, *Aesthetic.*
Saintsbury, *History of Criticism.*
Ker, *The Art of Poetry.*
A. C. Bradley, *Oxford Lectures on Poetry.*
Raleigh, *Style, Milton.*
J. Mackail, *Lectures on Poetry.*
Quiller-Couch, *Studies in Literature.*
I. Babbitt, *The New Laocoon, Rousseau and Romanticism.*
E. F. Carritt, *The Theory of Beauty.*
T. S. Omond, *A Study of Metre.*
Hulme, *Speculations* (K. Paul).
L. Abercrombie, *Principles of English Prosody* (Secker); *An Essay towards a Theory of Art* (Secker); *The Theory of Poetry* (Secker); *The Epic* (Secker).
J. Middleton Murry, *Countries of the Mind, Aspects of Literature, The Problem of Style.*
O. Williams, *Contemporary Criticism of Literature* (Parsons).
I. Richards, *Principles of Literary Criticism* (Kegan Paul).
Ogden, Richards and Wood, *The Foundations of Aesthetics* (Allen and Unwin).
L. Lewisohn, *A Modern Book of Criticism* (Macmillan).

Also books and articles by Bridges, Shaw, Herford, Elton, Newbolt, Bailey, More, Gayley, Spingarn, Lowes, Lynd, Strachey, Eliot, Reid, Fausset.

564. **English Thought:** between 1660 and 1798; to be taken in conjunction with 574.

3 hours per week: 3 credits.

574. **English Aesthetics and Criticism:** between 1660 and 1798; to be taken with English 564.

3 hours per week: 3 credits.

NOTE:—Courses 34 and 48 are open to graduate students.

DEPARTMENT OF GEOLOGY

J. W. RUSSELL, M.A., Professor
G. H. Reavely, M.A., Assistant Professor

20. A general introduction to the **Geological Sciences and Meteorology:** laboratory work will consist in identifying minerals, rocks and fossils local to southwestern Ontario, with field trips to interpret topographical features.

4 hours per week: 3 credits.

Text-books: Miller, *Elements of Geology.*
Milham, *Introductory Meteorology.*

31. **Mineralogy:** lectures on the occurrence and determination of minerals: the structure of crystals and simple crystal drawing; deposits of ores and classification of ore deposits.

2 lectures and 4 laboratory hours per week: 3 credits.

Prerequisite: Geology 20.

Text-books: Ford, *Dana's Manual of Mineralogy.*
Lewis, *Determinative Mineralogy.*

47. **Historical Geology:** the geological evolution of America, and the more significant world features; identification of type fossils, and their interpretation.

3 hours per week with field trips: 3 credits.

Prerequisite: Geology 20.

Text-book: Miller, *Introduction to Historical Geology.*

Honour Courses

251. **Elementary Mineralogy:** an introductory course in mineralogy, including crystallography, blow-pipe identification and assaying.

4 hours per week: 3 credits.

257. A general introductory course in the **Geological Sciences,** with an historical outline of the geological evolution of North America, and more significant world features. Description and identification of the more important type fossils.

6 hours per week with field trips: 5 credits.

Text-books: Schuchert and Dunbar, *Text Book of Geology, Parts I, II.*
Berry, *Palaeontology.*

351. **Advanced Mineralogy:** the theory and use of the petrographic microscope and descriptive mineralogy of the rock-forming minerals with laboratory practice.

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

354. **Economic Geology:** a course of lectures with reading and laboratory work.

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

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

356. **Surveying and Field Mapping:** the principles and methods of topographic surveying; the methods used in Canadian public land survey; the study of Canadian patent laws relative to mining claims; the methods of mine surveying and a study of geological survey procedures; laboratory periods will be devoted to field practice and the preparation of topographic and mine maps.

4 hours per week: 2½ credits.

452. **Petrology and Mineragraphy:** rock genesis, magma consolidation and differentiation; methods and procedures in interpretation of ore genesis; laboratory work in the methods of petrographic research.

2 lectures and 3 laboratory hours per week: 3½ credits.

453. **Introduction to Metallurgical Practice:**

2 lectures per week, first term: 1 credit.

Text-books: Hayward, *Outlines of Metallurgical Practice.*
Stoughton and Butts, *Engineering Metallurgy.*

455. **Stratigraphy and Structural Geology:** earth forces, their causes and results; strains and stresses of earth deformation; theories of earth genesis; study and interpretation of geological maps.

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

457. **History of the Development of the Geological Sciences:**

2 lectures per week, second term: 1 credit.

Text-book: Geikie, *Founders of Geology.*

458. **Seminar:** the study of Canadian mining fields.

2 hours per week: 2 credits.

DEPARTMENT OF GERMAN LANGUAGE AND LITERATURE

University College

N. C. JAMES, PH.D., LL.D.,	Professor Emeritus
R. A. ALLEN, PH.D.,	Associate Professor
H. K. KALBFLEISCH, M.A.,	Instructor
EDWARD TAUBE, M.A.,	Instructor

Ursuline College

MOTHER M. FELICITAS,	Instructor

Waterloo College

REV. H. SCHORTEN, D.D.,	Professor
LOUISE TWIETMEYER, B.A.,	Instructor

General Courses

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

3 hours per week: 3 credits.

Text-books: Van der Smissen and Fraser, *High School German Grammar* (Copp, Clark).
Super, *Elementary German Reader* (Ginn).
Kästner, *Emil und die Detektive* (Holt).

10. **Intermediate German:** the work of the Upper School or its equivalent is covered. Grammar, pronunciation, dictation, translation into German, translation from easy modern German literary prose.

3 hours per week: 3 credits.

Prerequisite: Middle School German or German 1.

Text-books: Baerg, *German Grammar Review* (Crofts).
Betz, *Deutscher Humor* (Heath).
Diamond and Schomaker, *Lust und Leid* (Holt).
Thoma, *Lausbubengeschichten* (Heath).

20. An introductory **Survey of German Literature** with a background of history and geography. Grammar, pronunciation, dictation, conversation, translation into German, translation from modern literary German.

4 hours per week: 4 credits.

Prerequisite: Upper School German or German 10.

Text-books: Holly, *German Epics Retold* (American).
Betz, *Die Schildbürger* (Heath).
Lessing, *Minna von Barnhelm* (Holt).
Goethe, *Vicar of Sesenheim* (Holt).
Schiller, *Wilhelm Tell* (Ginn).
Hauff, *Die Karavane* (Macmillan).
Meyer, *Gustav Adolfs Page* (Holt).
Baum, *Der Weg* (Crofts).
Robertson, *The Literature of Germany* (Holt).
Mueller, *German Grammar* (Dent).

25. **Scientific German:** the reading of scientific works in German.

2 hours per week: 2 credits.

Prerequisite: Middle School German or German 1.

Text-books: Wright, *German Science Reader* (Holt).
Allen, *The Mechanics of Scientific German.*

30. **Outline of Classical German Literature:** a survey of German Literature in the classical period with special emphasis on the work of Lessing, Goethe and Schiller. Prose composition, conversation, one hour per week.

3 hours per week: 3 credits.

Prerequisite: German 20.

Text-books: Lessing, *Minna von Barnhelm* (Holt).
Goethe, *Götz von Berlichingen* (Holt).
Goethe, *Iphigenie* (Oxford).
Schiller, *Kabale und Liebe* (Holt).
Schiller, *Wilhelm Tell* (Ginn).
Oxford Book of German Verse.
Kluge, *Geschichte der Deutschen National-Literatur.*
Pope, *Writing and Speaking German, New Series* (Holt).

35. **Scientific German:** the reading of scientific works in German.

1 hour per week: ½ credit.

Prerequisite: German 25.

Text-books: Raschen and Fairfield, *German Science Reader* (Prentice Hall).
Zeisberg, *Mathematisches Unterrichtswerk für höhere Schulen.*

40. **Outline of Modern German Literature:** a survey of German literature from romanticism to the present. Prose composition, conversation, one hour per week.

3 hours per week: 3 credits.

Prerequisite: German 30.

Text-books: Fouqué, *Undine* (Holt)
Kleist, *Prinz Friedrich von Homburg* (Ginn).
Grillparzer, *Des Meeres und der Liebe Wellen* (Holt).
Hebbel, *Agnes Bernaurer* (Oxford).
Heine, *Prosa* (Oxford).
Sudermann, *Heimat* (Heath).
Oxford Book of German Verse.
Kluge, *Geschichte der Deutschen National-Literatur.*
Fasnacht, *German Composition, First Course* (Macmillan).

45. **Scientific German:** the reading of scientific works in German.

1 hour per week: ½ credit.

Prerequisite: German 35.

Text-book: Kip, *A Scientific German Reader* (Oxford).

Honour Courses

280a. **Lessing and German Rationalism.**
3 hours per week, one term: 1½ credits.
Prerequisites: Junior Group 3, see page 66.

280b. **Schiller and The Storm and Stress.**
3 hours per week, one term: 1½ credits.
Prerequisites: Junior Group 3, see page 66.

281. Grammar, conversation, translation into German, free composition.
1 hour per week: 1 credit.
Prerequisites: Junior Group 3, see page 66.
Text-book: Pope, *Writing and Speaking German*, New Series (Holt).

380b. **Goethe.**
3 hours per week, one term: 1½ credits.
Prerequisites: German 280a, 280b.

381. Grammar, free composition, conversation.
2 hours per week: 2 credits.
Prerequisite: German 281.
Text-books: Fasnacht, *German Composition, First Course* (Macmillan).
Grundy, *Brush Up Your German* (Dent).

383. **Introduction to the History of the German Language:** elements of Middle High German Grammar, readings in M.H.G. literature (lyric).
1 hour per week: 1 credit.
Text-books: Diekhoff, *The German Language* (Oxford).
Wright, *Middle High German Primer* (Oxford).

390a. **German Romanticism.**
3 hours per week, one term: 1½ credits.
Prerequisites: German 280a, 280b.

490a. **Modern German Novel and Lyric.**
3 hours per week, one term: 1½ credits.
Prerequisites: German 390a, 380b.

490b. **Modern German Drama.**
3 hours per week, one term: 1½ credits.
Prerequisites: German 390a, 380b.

491. Advanced grammar, free composition, conversation.
2 hours per week: 2 credits.
Prerequisite: German 381.
Text-book: *Joynes-Meissner, A German Grammar* (Heath).

494a. **Middle High German Epic.**
2 hours per week, one term: 1 credit.
Prerequisite: German 383.
Text-books: Wenckebach, *Meisterwerke des Mittelalters* (Heath).
Der Nibelunge Not (Sammlung Göschen Nr. 1).
Eschenbach, *Parzival* (Sammlung Göschen Nr. 921).

494b. **Survey of German Literature from M. H. G. to Lessing.**
2 hours per week, one term: 1 credit.
Text-books: Wenckebach, *Meisterwerke des Mittelalters* (Heath).
Wickram, *Das Rollwagenbüchlein* (Insel-Bücherei).
Bötticher, *Die Literatur des 18ten Jahrhunderts vor Klopstock.*
Lessing, *Hamburgische Dramaturgie* (Macmillan).

Courses Leading to the Degree of M.A.

Advanced work in German philology, literature, philosophy and criticism.

DEPARTMENT OF HEBREW

University College

REV. C. C. WALLER, M.A., D.D., Professor

Waterloo College

REV. GEORGE SANDROCK, Professor

The object of the course in Hebrew is chiefly to provide instruction for intending theological students to enable them to read the Hebrew Bible with a thorough knowledge of grammar, pointing and a general acquaintance with the Old Testament literature as a foundation for more advanced study of Semitic languages; but any student desiring a fuller acquaintance with the Old Testament is at liberty to choose the Hebrew options.

Every student must provide himself with a *Hebrew Bible*, Bagster's *Hebrew-English Lexicon* and Davidson's *Hebrew Grammar*, twentieth edition, revised by McFayden; earlier editions will not be permitted in the classroom. Third-year students must have Davidson's *Hebrew Syntax;* advanced students are recommended to provide themselves with the *Oxford Hebrew Lexicon.*

The Professors reserve the right to rearrange or change the prescription of authors in any year of the pass and honour courses for the intramural students.

General Courses

10. Grammar, selections and exercises in translation from English into Hebrew and from Hebrew into English; translation

of *Genesis*, 1-4, 18; *Psalms*, 2, 8, 19, 23, 51. Grammatical analysis, parsing and vocabulary.

3 hours per week: 3 credits.

(This course is also given at Waterloo College as Hebrew 19x).

20. Grammar; exercises in translation from Hebrew into English and from English into Hebrew; pointing of simple passages; translation of *Genesis* 37, 40-45; *Exodus* 1-4; *I Kings* 17-19; *II Kings* 2,17.

3 hours per week: 3 credits.

Prerequisite: Hebrew 10.

30. Grammar and syntax; exercises in translation from Hebrew into English and from English into Hebrew; pointing; introduction to prophetic writings; *Amos; Isaiah* 1-6, 40, 50-55; *Jeremiah* 7; *Ezekiel* 14.

3 hours per week: 3 credits.

Prerequisite: Hebrew 20.

40. Grammar, syntax, pointing, exercises in translation from English into Hebrew and from Hebrew into English; introduction to poetical writings; principles of Hebrew poetry; *Numbers* 23, 24; *Psalms* 1, 16, 24, 29, 37, 45, 50, 80, 84, 90, 110, 121-134; *Ecclesiastes* 12; *Proverbs* 1-4, 8; *Job* 28.

3 hours per week: 3 credits.

Prerequisite: Hebrew 30.

Honour Courses

200. Grammar; exercises in translation of Hebrew into English and of English into Hebrew; pointing of simple passages; translation of *Genesis* 37, 40-45; introduction to prophetic writings; *Amos; Isaiah* 1-6, 40, 50-55; *Jeremiah* 7; *Ezekiel* 14.

4 hours per week: 4 credits.

300. Grammar, syntax, pointing, composition, sight translation; introduction to poetical writings; principles of Hebrew poetry; *Numbers* 23, 24; *Psalms* 1, 16, 24, 29, 37, 45, 50, 80, 84, 90, 110, 121-134; *Ecclesiastes* 12; *Proverbs* 1-4, 8; *Job* 28.

4 hours per week: 4 credits.

Prerequisite: Hebrew 200.

400. Exercises in grammar, syntax, pointing and composition; sight translation; the *Psalms* not previously read.

3 hours per week: 3 credits.

Prerequisite: Hebrew 300.

401. Aramaic; Brown *Aramaic Methods, Parts I, II;* exercises, grammar, syntax, pointing, composition.

3 hours per week: 3 credits.

Prerequisite: Hebrew 300.

DEPARTMENT OF HISTORY

University College

A. G. DORLAND, M.A., PH.D.,	Professor
F. LANDON, M.A., F.R.S.C.,	Associate Professor
S. F. MAINE, M.A., B.D., PH.D.,	Associate Professor
H. M. THOMAS, M.A., PH.D.,	Instructor
M. A. GARLAND, M.A.,	Assistant

Assumption College

REV. B. N. FORNER, B.A.,	Professor

Ursuline College

M. M. MERCEDES, B.A.,	Instructor
M. M. ST. JAMES, M.A.,	Instructor

Waterloo College

HANNAH M. HAUG, M.A.,	Professor
REV. S. W. HIRTLE, B.A.,	Assistant Professor

25. **History of England to 1713:** economic and social developments will be stressed; lectures, prescribed reading and essays. First term covers to 1485 with special emphasis on the period after 1066.

2 hours per week: 2 credits.

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

27. **Ancient Civilization:** the Near East, Greece and Rome; lectures, reading and essays. Not given in 1934-35.

3 hours per week: 3 credits.

30a. **Mediaeval History:** lectures, prescribed reading and essays.

3 hours per week, first term: 1½ credits.

Text-books: Munro and Sontag, *The Middle Ages* (Century) or
Thorndike, *History of Mediaeval Europe* (Houghton, Mifflin).

30b. **The Renaissance and the Reformation:** lectures, prescribed reading and essays.

3 hours per week, second term: 1½ credits.

Text-book: Hulme, *The Renaissance and the Reformation* (Century).

31. **History of Canada:** lectures, prescribed reading and essays. A survey of the History of Canada from the beginning of the French Regime to the present time.

2 hours per week: 2 credits.

Text-book: Wittke, *History of Canada* (Longmans).

40a. **Modern History (1600-1815):** lectures, prescribed reading and essays. The period down to 1763 will be reviewed in outline with a more detailed study of the Revolutionary and Napoleonic era.

3 hours per week, first term: 1½ credits.

Text-books: Hayes, *A Political and Cultural History of Modern Europe*, 1500-1830, *Vol. I* (Macmillan).
Robinson and Beard, *Readings in Modern European History, Vol. I* (Ginn).

40b. **Modern History (1815-1915):** lectures, prescribed reading and essays. The growth of nationalism and of democracy in Europe; the colonial and commercial expansion of the European nations as the background of the Great War will be especially studied.

3 hours per week, second term: 1½ credits.

Text-books: Hazen, *Europe since 1815* (Holt).
Robinson and Beard, *Readings in Modern European History, Vol. II* (Ginn).

43a. **The Development of Colonial Self-Government in the British Empire:** lectures, prescribed reading and reports. The lectures will be grouped under the following heads: British Colonial Policy at the beginning of the Nineteenth Century; the Colonial Reformers; the development of self-government in Canada, Australasia and South Africa; the constitution of Canada, of the Australian Commonwealth, of South Africa and of the Irish Free State; the growth of colonial nationalism and autonomy.

3 hours per week, first term: 1½ credits.

Text-books: Barnard, *The Expansion of Anglo-Saxon Nations.*
Currey, *British Colonial Policy.*
Egerton, *Federations and Unions in the British Empire.*
Scott, *Short History of Australia.*
Fairbridge, *History of South Africa.*

44. **History of the United States:** the colonial period, the revolution, making of the constitution, westward development, the slavery struggle, the Civil War, reconstruction and later political history to the present day; the character of federal and state governments. The period down to the Civil War will be covered in the first term and the period since the Civil War in the second term.

Lectures, prescribed reading and essays.

2 hours per week: 2 credits.

Text-book: Muzzey and Kraut, *American History for Colleges.*

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

3 hours per week, first term: 1½ credits.

Text-book: Thorndike, *History of Mediaeval Europe* (Houghton, Mifflin).

46b. **Modern History:** a rapid survey course of Continental Europe from the Treaty of Westphalia, 1648, down to the present.

3 hours per week, second term: 1½ credits.

Text-book: Robinson, *An Introduction to the History of Western Europe, Vol. II. (The Emergence of Existing Conditions and Ways of Thinking).*

Honour Courses

230a. **Mediaeval History:** lectures, prescribed reading and essays.

3 lectures, 1 seminar and conference hour per week, first term: 1½ credits.

Prerequisite: Junior Group 3, see page 66.

Text-book: Munro and Sontag, *The Middle Ages* (Century), or
Thorndike, *History of Mediaeval Europe* (Houghton, Mifflin).

230b. **The Renaissance and the Reformation:** lectures, prescribed reading and essays.

3 lectures, 1 seminar and conference hour per week, second term: 1½ credits.

Prerequisite: Junior Group 3, see page 66.

Text-book: Hulme, *The Renaissance and the Reformation* (Century).

340a. **Modern History (1600-1815):** for details, see History 40a. Honour students will be required to do special reading and reports in this course.

3 lectures, 1 seminar and conference hour per week, first term: 1½ credits.

Prerequisites: History 230a, 230b.

Text-books: Hayes, *A Political and Cultural History of Modern Europe*, 1500-1830, *Vol. I* (Macmillan).
Robinson and Beard, *Readings in Modern European History, Vol. I.*
Gottschalk, *The Era of the French Revolution.*

340b. **Modern History (1815-1915):** for details of course see History 40b. Honour students will be required to do special reading and reports in this course.

3 lectures, 1 seminar and conference hour per week, second term: 1½ credits.

Prerequisites: History 230a, 230b.

Text-books: Hazen, *Europe Since 1815* (Holt).
Robinson and Beard, *Readings in Modern European History, Vol. II.*
Flick, *Modern World History*, 1770-1926.

351. **History of Canada:** a survey of the History of Canada from the beginning of the French regime to the present time; lectures, prescribed reading and essays.

Students in this course will be expected to do wide reading in *The Cambridge History of the British Empire, Vol. VI; The Chronicles of Canada, The Makers of Canada, Canada and its Provinces*, and standard biographies.

2 lectures, 1 seminar and conference hour per week: 2 credits.

Text-book: Wittke, *History of Canada* (Longmans).

443a. **The Development of Colonial Self-Government in the British Empire:** for details, see History 43a. Honour students will be required to do special reading and reports in this course.

3 lectures, 1 seminar and conference hour per week, first term: 1½ credits.

444. **History of the United States:** see History 44; prescribed for students of the fourth year in the Honour Course in History; lectures, prescribed reading and essays.

2 lectures, 1 seminar and conference hour per week: 2 credits.

452. **English Constitutional History to the end of the Seventeenth Century:** lectures, prescribed readings and essays or reports. The following are the more important topics to be dealt with: Anglo-Saxon and Norman institutions; the

feudal background; Crown, Central Government and Church, after 1066; development of the Common Law; origin and growth of Parliament, and its relation to the Crown.

2 lectures, 1 seminar and conference hour per week: 2 credits.

Text-books: Adams and Stevens, *Select Documents of English Constitutional History.* Adams, *Constitutional History of England* (Holt).

455. **British Political Parties:** a reading and lecture course conducted in connection with weekly seminars. Fourth year honour intramural students only are 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.

Text-books: Traill, *Shaftesbury.*
Morley, *Walpole.*
Williams, *Life of William Pitt, Earl of Chatham.*
Newman, *Edmund Burke.*
Drinkwater, *Charles James Fox.*
Rosebery, *Pitt.*
Thursfield, *Peel.*
Morley, *Cobden.*
Froude, *Beaconsfield.*
Morley, *Life of Gladstone.*

Courses Leading to the Degree of M.A.

553. **Colonial and Imperial History:** a seminar course in Colonial and Imperial problems for advanced students who have the necessary prerequisite courses, or for graduate students.

554. **American History:** a seminar course in selected problems in Canadian and United States history for advanced students who have the necessary prerequisite courses, or for graduate students.

The hours and credits to be assigned for 553 and 554 will be decided by the Department. Students desiring to take these courses must notify the Department of their intention not later than the June preceding the Fall Term in which the work will be taken.

DEPARTMENT OF LAW

C. C. CARROTHERS, B.A., LL.B., Lecturer

500. **Domestic Relations:** Eversley, substituting the Canadian Statutes for the English Statutes in the text-book.

The parts to be read are: Parts I, II, and IV, to page 811; Part V, 875-9 inclusive, 884-94 inclusive and 919-34 inclusive.

Text-book: Eversley, *Domestic Relations*, Fourth Edition by A. Cairns.

501. **Corporations:** The following of the text named below: Part I, ch. 1 to 4, inclusive; Part II, ch. 1 to 5, inclusive; Part III, ch. 2 to 3, page 198, ch. 4 to 13, inclusive; Part IV, ch. 1 and 2, sections 3 and 4; Part V, ch. 1 to 6, inclusive; Part VI, ch. 1 to 6, inclusive.

Text-book: Brice, *Ultra Vires* (Third English Edition).

502. **Medical Jurisprudence:** the following portions will be read from the text named below: Volume I, sections 1, 2, 4, 5, 6, 10, 11, 13; Volume II, sections 1-13 inclusive, 15.

Text-book: Taylor, *Medical Jurisprudence* (edited Smith, 7th edition, 1920).

503. **Theory of Obligation:** Institutes of Justinian.

Book I: Titles 1, 2, 3.

Book III: Titles 13-29 inclusive.

Book IV: Title 1.

504. **Thesis.** See page 49.

DEPARTMENT OF LIBRARY SCIENCE

University College

CATHERINE CAMPBELL, B.A., Instructor
BEATRICE WELLING, B.Sc., M.A., Instructor

Assumption College

REV. E. J. WELTY, PH.D., Lecturer

Waterloo College

B. MABEL DUNHAM, B.A., Lecturer

10a. A course of instruction in the use of books and libraries, including lectures and exercises on the use and arrangement of the card catalogue, standard reference books, periodicals and periodical indexes and bibliography. Those who fail in the first term will repeat the course as 10b in the second term. Prescribed for all students in the first year.

1 hour per week, first term: ½ credit.

31. **Reference Work:** a critical study of selected standard reference books, with problems on the use of these; use of bibliographies and indexes; lectures and assigned readings on the use of books and other printed materials in business.

2 lectures, 3 hours practice per week, second term: 2 credits.

DEPARTMENT OF MATHEMATICS AND ASTRONOMY

University College

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

Assumption College

REV. V. J. GUINAN, M.A., — Lecturer

Ursuline College

M. M. MOIRA, B.A., — Lecturer

Waterloo College

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

10a. **Algebra:** linear and quadratic functions of two variables—graphs, maximum and minimum values, linear factors; quadratic equation in one variable—solution, discriminant, sum and product of roots, construction of equations whose roots are functions of roots of given equation; ratio and proportion; variation; arithmetic, geometric and harmonic series; annuities; permutations and combinations as a prerequisite for the binomial theorem; binomial theorem proved for positive integral exponent and applied also with negative and fractional exponents.

3 hours per week, first term: 1½ credits.

Prerequisite: Middle School Mathematics.

12b. **Analytic Geometry:** the analytic geometry of the point, straight line, circle, parabola, ellipse and hyperbola to page 137 of text; application to curve of flight and reflectors.

3 hours per week, second term: 1½ credits.

Prerequisite: Upper School Algebra or Mathematics 10a.

Text-book: Barnett, *Analytic Geometry* (Wiley).

20. **Algebra:** first term; binomial theorem, variation, logarithms, interest and annuities, exponential and logarithmic series, graphing.

Second term: limiting values, elementary tests for convergency of series, undetermined coefficients, partial fractions, Newton's method of solving numerical equations, introduction to statistics. The emphasis in the above courses will be on problems.

2 hours per week: 2 credits.

Prerequisite: Mathematics 10a and 12b or Upper School Algebra and Geometry.

22a. **Analytic Geometry:** the cartesian co-ordinate system, the straight line, circle, parabola, ellipse and hyperbola, the general equation of the second degree, polar co-ordinates, parametric equations. This course is essentially a problem course.

3 hours per week: 1½ credits.

Prerequisite: Mathematics 10a and 12b or Upper School Algebra and Geometry.

Text-book: Lennes and Merrill, *Plane Analytic Geometry* (Harper).

23a. **The Mathematical Theory of Investment:** interest; annuities; amortization of debts; valuation of bonds; sinking funds and depreciation.

3 hours per week, first term: 1½ credits.

Prerequisite: Mathematics 10a, 12b, or Upper School Algebra and Geometry.

Text-book: Tate, *Interest, Annuities and Bonds* (Pitman).

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

3 hours per week: 1½ credits.

Prerequisite: Mathematics 10a and 12b or Upper School Algebra and Geometry.

Text-book: Granville, Smith and Longley, *Elements of the Differential and Integral Calculus* (Ginn).

28. **Trigonometry:** trigonometrical ratios and their relations; values of ratios of common angles; formulae of circular measure; applications; ratios of the sum and difference of two angles with derived formulae; logarithms; solution of triangles with derivation of the necessary formulae; radii of

inscribed, escribed and circumscribed circles of a triangle; perimeters and areas of inscribed and circumscribed regular polygons of a circle.

1 hour per week: 1 credit.

Prerequisite: Mathematics 10a or Upper School Algebra.

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

29. **Descriptive Astronomy:** the constellations; systems of co-ordinates; shape, size and motions of the earth; the moon; eclipses; time; the solar system; the planets; comets and meteors; the sun; evolution of solar system; the stellar universe. Evening observations. The lectures will be illustrated with lantern slides. This course is not mathematical. Given in alternate years. Offered in 1935-36.

2 hours per week: 2 credits.

Text-books: Duncan, *Astronomy* (Harper).
Kingston, *An Easy Pocket Star Guide for Beginners.*

Honour Courses

250a. **Determinants and Algebra:** determinants; recurring series, continued fractions, indeterminate equations of first degree, recurring continued fractions, De Moivre's Theorem, nth roots of 1 and of —1.

2 hours per week: 1 credit.

Prerequisites: Mathematics of Junior Group 1, see page 66.

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

252a. **Analytic Plane Geometry:** the theory of determinants and the methods of the differential calculus are stressed wherever possible in a consideration of: the geometry of points and lines related to a triangle; the theorem of Desargue; the cross-ratio of four points on a line and four lines through a point; the harmonic properties of a complete quadrilateral and of a complete quadrangle; the geometry of a circle and conic, studied by means of a homogeneous coordinate system; the duality between point coordinates and line coordinates; the tangential equation of a conic; classification of the conic represented by the general homogeneous quadratic equation in three variables; confocal conics; similar conics.

2 hours per week: 1 credit.

Prerequisites: Mathematics of Junior Group 1, see page 66.

Text-book: G. Salmon, *Conic Sections* (Longmans).
References: C. Smith, *Conic Sections* (Macmillan).
W. P. Milne, *Homogeneous Coordinates* (Arnold).

254a. **Differential Calculus:** successive differentiation; maxima and minima of f(x); points of inflexion; curve tracing; differentials; rates; change of dependent and independent variables; curvature; envelopes; evolutes; involutes; Mean Value Theorem; indeterminate forms; partial differentiation; convergency of series; Taylor's and Maclaurin's Series applied to expansion of functions; asymptotes; singular points; tangent planes and normal lines to surfaces; tangent lines and normal planes to twisted curves.

3 hours per week: 1½ credits.

Prerequisites: Mathematics of Junior Group 1, see page 66.

Text-book: Granville, Smith and Longley, *Elements of the Differential and Integral Calculus* (Ginn).

260b. **Elementary Theory of Numbers and Theory of Equations.**

2 hours per week: 1 credit.

Prerequisites: Mathematics of Junior Group 1, see page 66.

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

261. **Synthetic Solid Geometry.**

1 hour per week: 1 credit.

Prerequisites: Mathematics of Junior Group 1, see page 66.

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

262b. **Analytic Solid Geometry.**

2 hours per week: 1 credit.

Prerequisite: Mathematics 250a.

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

264b. **Integral Calculus:** integration as inverse of differentiation and as the limit of summation; methods of integration; reduction formulae; definite integrals; applications.

3 hours per week: 1½ credits.

Prerequisite: Mathematics 250a.

Text-book: Granville, Smith and Longley, *Elements of the Differential and Integral Calculus* (Ginn).

329. **Descriptive Astronomy:** See Mathematics 29.

2 hours per week: 2 credits.

Text-books: Duncan, *Astronomy* (Harper).
Kingston, *An Easy Pocket Star Guide for Beginners.*

354a. **A First Course in Differential Equations:** differential equations of first order; singular solutions; applications; linear equations with constant coefficients.

2 hours per week: 1 credit.

Prerequisites: Mathematics 250a-264b.

Text-book: Murray, *Differential Equations* (Longmans).

355b. **Probability and Statistics.**

2 hours per week: 1 credit.

Prerequisites: Mathematics 250a-264b.

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

358a. **Spherical Trigonometry:** the solution of the spherical triangle with applications to problems in geodesy; introduction to theory of least squares.

2 hours per week: 1 credit.

Prerequisites: Mathematics 250a-264b.

Text-book: Wells, *Six Place Logarithmic Tables* (Heath).

359b. **Mathematical Astronomy:** time, the conversion of time; the ephemeris; corrections of observations for refraction, parallax, aberration and dip; description and working principles of astronomical instruments; errors of instruments, and how to eliminate their effects; determination of latitude, longitude, azimuth and time; observations with transit; nautical astronomy.

2 hours per week: 1 credit.

Prerequisite: Mathematics 329a.

Text-books: Hosmer, *Practical Astronomy* (Third Edition, Wiley).
The American Nautical Almanac for 1934 (Eastern Science Supply Co.).

362. **Analytic Solid Geometry:** plane sections of conicoids; generating lines of conicoids; systems of conicoids; tangential equations; reciprocation; confocal conicoids; foci of conicoids; quadriplanar and tetrahedral co-ordinates; surfaces in general; twisted curves; curvature of surfaces.

2 hours per week: 2 credits.

Prerequisites: Mathematics 250a-264b.

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

364b. **A Second Course in Differential Equations:** linear equations with variable coefficients; exact differential equations; integrations in series; equations of second order;

equations with more than two variables; partial differential equations.

2 hours per week: 1 credit.

Prerequisite: Mathematics 354a.

Text-book: Murray, *Differential Equations* (Longmans).

451. **Modern Synthetic Geometry:** geometric continuity; selected theorems on ranges of points and pencils of lines; collinearity and concurrence; perspectivity; inversion; poles and polars; polar reciprocation and the principle of duality; harmonic and anharmonic ratios; projection.

2 hours per week, one term: 1 credit.

Prerequisites: Mathematics 250a-264b.

Text-book: Johnson, *Modern Geometry* (Houghton, Mifflin).

452a. **Advanced Theory of Conic Sections:** study of conics by abridged notations; points and lines at infinity; Pascal's and Brianchon's Theorems; parametric equations of conics; envelopes; harmonic and anharmonic properties of ranges and pencils related to conics; projective properties of conics; involution, polar reciprocation, applications.

2 hours per week: 1 credit.

Prerequisites: Mathematics 250a-264b.

Text-book: Salmon, *Conic Sections* (Longmans).

453a. **Finite Differences:** fundamental difference forms; factorial expansions; interpolation formulae; divided differences; central differences; statistical applications; mechanical quadratures; integration; Euler-Maclaurin's, Woolhouse's and Lubbock's Formulae.

2 hours per week: 1 credit.

Prerequisites: Mathematics 250a-264b.

Text-book: Freeman, *Actuarial Mathematics* (Cambridge).

454b. **Advanced Calculus:** selected topics.

2 hours per week: 1 credit.

Prerequisites: Mathematics 250a-264b.

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

456. **Theory of Functions of a Complex Variable.**

2 hours per week: 2 credits.

Prerequisites: Mathematics 250a-264b.

Text-book: Townsend, *Functions of a Complex Variable* (Holt).

457. **History of Mathematics.**

1 hour per week: 1 credit.

References: Cajori, *A History of Mathematics* (Macmillan).
Sandford, *A Short History of Mathematics* (Houghton, Mifflin).

462b. **Higher Plane Curves:** inverse curves; pedal curves; reciprocal polars; order and class of a curve; Joachamsthal's method of investigating singularities; multiple points; tangents and pseudo-tangents; kth polars and polar k-thics; deficiency; Plücker's numbers; residuation; genesis and properties of various plane curves.

2 hours per week: 1 credit.

Prerequisites: Mathematics 250a-264b.

References: Salmon, *Higher Plane Curves.*
Williamson, *Differential Calculus* (Appleton).
Williamson, *Integral Calculus* (Longmans).

463a. **The Mathematics of Finance.**

2 hours per week: 1 credit.

Prerequisites: Mathematics 250a-264b.

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

473b. **The Mathematics of Life Insurance:** the mortality table; probabilities of life; annuities; expectations of life; the law of mortality; life insurance premiums; policy reserves.

2 hours per week: 1 credit.

Prerequisites: Mathematics 453a and 463a.

Text-books: Rietz, Crathorne and Rietz, *Mathematics of Finance* (Holt).
Spurgeon, *Life Contingencies* (Macmillan).

Courses Leading to the Degree of M.A.

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

550. **Theory of Numbers.**

551. **Synthetic Projective Geometry.**

552. **Analytic Projective Geometry.**

553. **Advanced Actuarial Science.**

554. **Elliptic Integrals.**

556. **Theory of Functions of a Real Variable.**

559. **Celestial Mechanics.**

560. **Theory of Invariants.**
563. **Insurance Problems.**
564. **Projective Differential Geometry.**
576. **Theory of Algebraic Functions.**

DEPARTMENT OF PHILOSOPHY AND PSYCHOLOGY

University College

ROY B. LIDDY, PH.D., LL.D.,	Professor
DOUGLAS J. WILSON, M.A., PH.D.,	Instructor
REV. G. B. SAGE, M.A., D.D., LL.D.,	Lecturer
A. RUTH LEWIS, M.A.,	Lecturer
LEOLA NEAL, B.A.,	Assistant

Assumption College

REV. E. J. TIGHE, M.A.,	Professor
REV. E. J. WELTY, M.A., PH.D.,	Professor
REV. V. I. MCINTYRE, M.A.,	Lecturer

Ursuline College

REV. J. H. POCOCK, B.A.,	Professor
REV. F. J. BRENNAN, S.T.L.,	Associate Professor
REV. J. B. FFOULKES, J.C.D.,	Instructor
REV. W. T. FLANNERY, S.T.D.,	Instructor
RT. REV. L. M. FORRISTAL, B.A.,	Instructor

Waterloo College

REV. H. HENKEL,	Associate Professor

Huron College

REV. J. H. CRAIG, M.A., B.D.,	Lecturer

NOTE. Students taking courses in this Department which involve laboratory work will be required to make a deposit of two dollars to cover supplies and breakages. A refund of any surplus will be made at the end of the college year.

Psychology

20. **Introduction to Psychology:** an elementary course in General Psychology. Among the topics considered will be the following: contemporary psychological methods and tendencies; intelligence and intelligence testing; memory and the

learning process; motivation; feeling and emotion; sensation and perception; types of thinking; imagination processes; the integration and disintegration of personality; the unconscious. The course will include a brief introduction to social, abnormal and applied psychology. Lectures, prescribed reading and essays.

3 hours per week: 3 credits.

35. **Experimental Psychology:** an elementary course.

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

36. **Genetic and Educational Psychology:** the development of the child up to adolescence; biological foundations; native equipment; the learning process applied to the training of emotional life and socialized habits; applications to educational methods; tests of achievement; aim and point of view of mental hygiene.

2 hours per week: 2 credits.

38. **Learning and Tests:** a detailed study of the learning process by actual experimentation; theory and construction of tests with statistical procedures necessary for their interpretation.

3 lectures, 2 laboratory hours per week: 4 credits.

39. **Clinical Problems in Mental Hygiene:** the clinical approach to mental hygiene; mental testing in a Mental Health Clinic; behaviour problems in childhood; factors promoting mental health.

One hour per week: 1 credit.

43a. **Psychology of Religion:** the structure, genesis, and growth of religious experience; conscious and unconscious elements; types of conversion; the psychological aspects of worship and of religious belief.

2 hours per week: 1 credit.

46. **Applied Psychology:** individual competence for practical life; problems of motivation; learning and achievement in special fields such as industry, school and professional life.

2 hours per week: 2 credits.

48a. **Social Psychology:** the activities of living beings in response to their social environment. Among the special subjects discussed are the following: the social setting and psycho-

logical foundations of social behaviour; the conditioning of personality by the family and other groups; types of prejudice; leadership and prestige in social life; the mob; mental epidemics; public opinion.

2 hours per week: 1 credit.

48b. **Abnormal Psychology:** abnormal processes in the realm of sensation, perception, memory, emotion, thought; dreams; hypnotism; the feeble-minded; the genius; deranged personalities.

2 hours per week: 1 credit.

5x9. **Business Psychology:** essentials and applications of modern psychology for commerce and industry. This subject is offered only to students registered in the intensive course in Business Administration.

2 hours per week, second term: 1 credit.

Honour Courses

Offered in University College only.

235. **Experimental Psychology:** identical with 35, with additional assignments.

336. **Genetic and Educational Psychology:** identical with 36, with additional assignments.

338. **Learning and Tests:** identical with 38.

339. **Clinical Problems in Mental Hygiene:** identical with 39.

443a. **Psychology of Religion:** identical with 43a.

446. **Applied Psychology:** identical with 46.

448a. **Social Psychology:** identical with 48a.

448b. **Abnormal Psychology:** identical with 48b.

455. **Experimental Psychology:** an advanced course in which each student will select some topic for special investigation. Not offered in 1934-35.

1 lecture or seminar, 4 laboratory hours per week: 3 credits.

459. **Systematic Psychology:** critical examination of modern systems of psychology with special attention to the

categories of experience and behaviour used by each. Lectures and reading assignments in texts representing the various tendencies in modern psychology.

2 hours per week: 2 credits.

Philosophy

30. **Introduction to Philosophy:** a course designed to give the beginning student an understanding of the chief problems of philosophy and an acquaintance with the important developments in its history. Emphasis will be placed upon the following topics: the relation of philosophy to the special sciences; theories of knowledge; theories of reality; the philosophy of evolution; the world of values. Outstanding philosophers and tendencies in the history of philosophy will be briefly considered. Offered in University College only.

2 hours per week: 2 credits.

30x. **Introduction to Philosophy:** the general problems and divisions of philosophy; Greek Philosophy from Thales to Plotinus, with special reference to Socrates, Plato and Aristotle; lectures, readings and essays. Offered in Assumption, Ursuline and Waterloo Colleges.

2 hours per week: 2 credits. (At Assumption College, 3 hours per week: 3 credits.)

31. **Logic:** Formal and Inductive.

1 hour per week: 1 credit.

31x. **Logic** (equivalent of 31): an introductory course in the principles of Deductive and Inductive Logic. Offered in Waterloo College only.

2 hours per week, second term: 1 credit.

Text-book: Creighton, *An Introductory Logic.*

32. **Ethics:** the history of early modern ethics up to Kant; theory of obligation; applied ethics.

1 hour per week: 1 credit.

32x. **Ethics** (equivalent of 32): a general course in Ethics in which the Christian point of view will be maintained and emphasized, while the value of the study of Philosophic Ethics will be pointed out. Offered in Waterloo College only.

2 hours per week, first term: 1 credit.

Text-books: Mackenzie, *Manual of Ethics.*
Sidgwick, *History of Ethics.*
Keyser, *General Ethics.*

33. **Christian Ethics:** the ethics of the New Testament; the development of ethical thought during the Christian era; Christian ethical standards of today as they affect the individual and society.

1 hour per week: 1 credit.

37. **History of Ancient and Mediaeval Philosophy:** the history of western philosophy up to the Renaissance. So far as time permits, source material will be studied. Not offered in 1934-35.

2 hours per week: 2 credits.

43b. **Philosophy of Religion:** the nature, method and value of religion; the relation between religion and science, and between religion and philosophy. Special emphasis will be placed upon the concepts of God, prayer, evil, freedom, immortality.

2 hours per week, second term: 1 credit.

45x. **Metaphysics:** the soul; false theories on the nature of the soul; union of soul and body; theory of Plato; occasionalism; pre-established harmony; Aristotelico-Scholastic doctrine; theories of emanation; traducianism; evolution theory; creation doctrine. Offered in Ursuline College only.

1 hour per week: 1 credit.

Text-book: Maher, *Psychology.*

47. **History of Modern Philosophy:** from the Renaissance to the present. Current types of philosophy will be emphasized. Not offered in University College in 1934-35.

2 hours per week: 2 credits. (At Assumption College, 3 hours per week: 3 credits).

Honour Courses

Offered in University College only.

230. **Introduction to Philosophy:** identical with 30.

231. **Logic:** identical with 31.

332. **Ethics:** identical with 32.

333. **Christian Ethics:** identical with 33.

337. **History of Ancient and Mediaeval Philosophy:** identical with 37. Not offered in 1934-35.

350. **Principles and Problems of Philosophy:** an outline of various types of realism, idealism and pragmatism; a critical study of the fundamental concepts of science, morality, religion and art. Not offered in 1934-35.

1 hour per week: 1 credit.

443b. **Philosophy of Religion:** identical with 43b.

447. **History of Modern Philosophy:** identical with 47.

458. **Contemporary Philosophy:** a critical study of present day tendencies in Epistemology and Metaphysics. Not offered in 1934-35.

1 lecture or seminar per week: 1 credit.

Honour Courses

Offered in Assumption College and Ursuline College only.

250x. **Elementary Psychology:** a course in Elementary Psychology: sensation; perception; imagination; instinct; memory; sensuous appetites and feelings; intellect; intellect and sense; intellectual cognition; theories of conception; process of intellectual development; rational appetite; necessary voluntary acts; free acts; emotions and sentiments.

3 hours per week: 3 credits.

Text-book: S. A. Lortie, *Elementa Philosophiae Christianae.*

251x. **Logic:** a course in Formal Logic; the three operations of the mind; the idea; the term; various kinds of idea; definition; division; categories and predicables; judgment; the propositions, various kinds, their nature and division: reasoning; deductive and inductive; the syllogism; rules, modes and figures; the use of the syllogism; fallacies.

2 hours per week: 2 credits.

Text-book: S. A. Lortie, *Elementa Philosophiae Christianae.*

257x. **History of Philosophy:** a course in Greek Philosophy. The history of Philosophy in general; Oriental Philosophy; the transition from superstition to Philosophy; the progress of Greek thought from its birth among the Ionians to its perfection in Plato and Aristotle; the Post-Aristotelian Philosophy; Graeco-Oriental Philosophy.

2 hours per week: 2 credits.

Text-book: William Turner, *History of Philosophy.*
References: J. Burnet, *Greek Philosophy.*
W. T. Stace, *A Critical History of Greek Philosophy.*
Windleband, *History of Philosophy.*

351x. **Metaphysics: Logic.**

Ontology: being; essence; existence; the transcendental qualities of being; substance; accident; properties of being; nature; subsistence; person; time; space; cause and effect; quantity; quality; relation.

Cosmology: theories of the property and constitution of matter; scholastic theory of matter and form; critical examination of the atomic and dynamic theories; properties of physical substances; laws of nature; miracles.

Criteriology: nature and existence of certitude; logical truth; criteria; the senses and consciousness as means of certitude; objectivity of our concepts.

5 hours per week: 5 credits.

Text-book: S. A. Lortie, *Elementa Philosophiae Christianae, Vol. II.*

352x. **Ethics:** General: the last end of man; its nature and attainment; morality of human acts; the norm of morality; law, eternal, natural and positive, in relation to morality; right reason; conscience; influence of passions on moral acts; habits; virtues; vices; general notions of right and duty.

3 hours per week: 3 credits.

Text-book: S. A. Lortie, *Ethica et Philosophia Moralis.*

357x. **History of Philosophy:** Patristic and Mediaeval.

Patristic: Heretical systems; Ante-Nicene Fathers; Post-Nicene Fathers.

Mediaeval: Arabian, Jewish and Scholastic Philosophy; formation, culmination and decline.

3 hours per week: 3 credits.

Text-book: William Turner, *History of Philosophy.*
References: M. De Wulf, *History of Mediaeval Philosophy.*
E. Gilson, *Etudes de Philosophie Médiaévale.*
H. O. Taylor, *The Mediaeval Mind.*

450x. ***Theodicy: Rational Psychology.***

Theodicy: the idea of the Divine Being; proof of the existence of God; the divine attributes; the immanent operations of God; the transient operations of God; the unicity of God.

Rational Psychology: life; plant life; animal life; origin of species; Mendelism; rational life; the human soul and its essential qualities; union of soul and body; origin and destiny of the human soul.

5 hours per week: 5 credits.

Text-book: S. A. Lortie, *Elementa Philosophiae Christianae, Vol. II.*

452x. **Ethics:** Special: duties and rights. The individual: his duties of justice and charity to God, his neighbour and himself. The family: marriage; polygamy; divorce; monogamy, celibacy; relations between parents and children. The state: origin and forms of civil society; origin of civil power; forms of government; rights and duties of the state; citizenship.

3 hours per week: 3 credits.

Text-book: S. A. Lortie, *Elementa Philosophiae Christianae, Vol. III.*

457x. **History of Philosophy:** Modern: the history of modern Philosophy from Descartes to the present; the Idealistic Movement; German Transcendentalism; Evolutionism; Positivism; Rationalism; Pragmatism.

3 hours per week: 3 credits.

Text-book: Turner, *History of Philosophy.*
References: Rand, *Modern Classical Philosophers.*
Windleband, *History of Philosophy.*
Erdman, *History of Philosophy.*
Royce, *The Spirit of Modern Philosophy.*

DEPARTMENT OF PHYSICAL EDUCATION

University College

J. H. CROCKER, M.P.E.,	Director
JOYCE M. PLUMPTRE, B.A., D.P.E.,	Instructor
BARBARA CROWE, D.P.E.	Student Assistant
ALEX. W. MUNROE,	Student Assistant
ANDREW REEKIE,	Student Assistant
DORIS WESTON,	Student Assistant

Alma College

BARBARA MACDOUGALL, D.P.E.,	Instructor

Assumption College

REV. V. J. MCINTYRE,	Instructor

Ursuline College

*HELEN R. HOBBS, D.P.E.,	Student Assistant

Waterloo College

HERMAN SCHERBARTH,	Student Assistant
HELEN WILLISON,	Student Assistant
CHARLOTTE PULLAM,	Student Assistant

*First term, 1933-34.

COURSES FOR WOMEN

All women students of the first and second years must enroll in this department. By arrangement with the Department, second year students may drop out of organized classes during the weeks in which they wish to participate in riding, golf, skating, swimming, or with intercollegiate or inter-year teams. The classes continue throughout the year on Monday and Wednesday, from 4.30 to 5.30 p.m.; Tuesday, Thursday and Friday from 10 to 11 a.m. Students may choose their hours. Classes are conducted out of doors when weather permits, otherwise in the auditorium.

Out-door activities consist of: tennis, archery, basketball, badminton, field hockey, soccer, track and field athletics, baseball, cross-country hiking, volley-ball, skating and skiing.

In-door activities: gymnastics, marching tactics, group games and relays, mat work, posture training.

Uniform: A uniform costing approximately $5.00 is required. It may be ordered through the University at the time of registration.

Students will register in one of the following courses:

10. **General Physical Education:** prescribed for all women students of the first year.

2 hours per week: 1 credit.

20. **General Physical Education:** prescribed for all women students of the second year.

2 hours per week: 1 credit.

Prerequisite: Physical Education 10.

30-40. **Advanced Physical Education:** optional for women of the third and fourth years; alternative courses; General Physical Education, Leaders' course, Hygiene and First Aid.

2 hours per week, each year: 1 credit each year.

Prerequisite: Physical Education 10, 20.

Leaders' Course

A course designed chiefly for those who intend to carry on physical education in schools, playgrounds, camps or recreation centres.

2 hours per week: 1 credit.

Special Course

A specially selected course will be offered to students who are not physically fit to participate in the entire program. It will include archery, hiking, first aid and hygiene, remedial gymnastics, and will be adapted to the needs of the individual student.

COURSES FOR MEN

A student may elect one from each of the following Autumn and Winter groups within the Physical Education program, and if his performance justifies it, he will receive credit for the prescribed or elective work of his year.

Autumn: Rugby, soccer, track, horseback riding, military training (C.O.T.C.).

Winter: Boxing and wrestling, hockey, basketball, gymnastics, military training (C.O.T.C.), basketball coaching, first aid.

Students will register in one of the following courses:

11. **Physical Education:** required of all men in the first year. This course consists of one elective autumn activity and one elective winter activity.

2 hours per week: 1 credit.

21. **Physical Education:** required of all men in the second year. This course consists of one elective autumn activity and one elective winter activity.

2 hours per week: 1 credit.

31-41. **Advanced Physical Education:** optional for men of the third and fourth years. Open only to those who have had Physical Education 11 and 21. This course consists of one elective autumn activity and one elective winter activity.

2 hours per week, each year: 1 credit each year.

First Aid to the Injured

Elementary and advanced courses, seven lectures each, with an examination for certificate in St. John Ambulance Association. A winter option for Physical Education 10 or 11.

1 hour per week: ½ credit.

Text-book: *St. John Ambulance Hand Book.*

Theory of Physical Education

History and Principles of Physical Education: the history and development of Physical Education; a brief review of the so-called systems and present day theories.

Organization and Administration of the Physical Department: the technique of planning and promoting the Physical program; foundation principles; the methods of construction of equipment; supervision and care of various departments. A winter option for Physical Education 31 or 41.

1 hour per week: ½ credit.

Basketball Coaching

This course will deal thoroughly with the following phases of the game: history and development, fundamentals, individual and team development of offense, individual and team development of defense, formations and signals. This will be followed by a general discussion and comparison of the various styles of play. A brief period will be devoted to basketball rules. Each day's work will consist of one period of lecture work followed by one period of practical work on the basketball floor.

2 hours per week: 1 credit.

Prerequisite: Physical Education 11.

Military Training

The work of the C. O. T. C. offers an unusual opportunity to students to pass examinations for lieutenants' and captains' certificates. The examinations are conducted by the staff of the Imperial War Office, and the certificates are standard throughout the British Empire.

The course as approved by the Military Committee is as follows:

First Year: Elementary theory and preliminary practical training.

Second Year: Theoretical and practical training leading up to Certificate "A" Infantry. Medical Students may join "B" Company and take Certificate "A" Medical.

Third Year: Certificates "B", Infantry and Medical.

Fourth Year: Training as Specialists.

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

Theoretical: lectures on Organization and Administration, Duties, Military Law, Principles of War and Characteristics of Fighting Troops, Infantry in Battle, Protection, Infantry in Attack and Defense, Information, Movements by Land and Sea, Quarters, Messages, Orders and Appreciations and Topography. The medical company will receive special lectures.

Practical: Platoon and Extended Order Drill, Company Drill, Various Formations used in Attack and Defense, and Musketry. "B" company, medical services.

Rifle Association: all members of the University Contingent are entitled to the privileges of the Rifle Association.

DEPARTMENT OF PHYSICS

University College

R. C. DEARLE, M.A., PH.D.,	Professor
R. L. ALLEN, M.A.,	Associate Professor
A. WILLENA FOSTER, M.A.,	Assistant Professor
A. M. I. A. W. DURNFORD, M.A., PH.D.,	Instructor
R. G. ELSON, M.A.,	Senior Demonstrator
DONALD MACVICAR, B.A.,	Demonstrator
JAMES SPEIGHT, B.A.,	Demonstrator
G. A. WOONTON, M.A.,	Demonstrator
WILSON TOTTEN, B.A.,	Demonstrator
F. W. PYE,	Instrument Maker

Assumption College

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

All students taking laboratory work in Physics must make a deposit of five dollars to the Bursar to cover breakage. A refund of any surplus will be made at the end of the college year.

10. **Mechanics and Heat:** an introductory survey course prescribed for students intending to major in some branch of science. The course consists of lectures, demonstrations and laboratory exercises covering the following principal topics; systems of measurement; laws of uniformly accelerated motion; elementary analytic statics; rotational motion; simple harmonic motion; hydrostatics and hydrodynamics; surface tension; viscosity; osmosis; thermometry; temperature and its effects; gas laws; calorimetry; change of

state; vapor pressure; hygrometry; elementary kinetic theory; first and second laws of thermodynamics, reversible cycles.

2 lectures, 3 laboratory hours per week: 3½ credits.

Text-books: Duncan and Starling, *Dynamics.*
Hart, *Introduction to Advanced Heat.*

11. **Survey Course:** lectures and demonstrations, accompanied by suitable laboratory exercises, designed (1) to give a background of the development of the philosophy of science, (2) to develop the broad general principles of physics, (3) to present an outline of some of the newer developments in physical science, with a discussion of their possible significance.

This course constitutes approximately one-half of the work of the course in Physical Science, which is offered as an option in Junior Groups 2 and 3, and in the Senior Group. See also Chemistry 11.

2 lectures, 3 laboratory hours per week, first term: 1½ credits.

Text-book: Loeb, *Development of Physical Thought.*

20. Not offered in 1934-35.

30. Not offered in 1934-35.

Honour Courses

204a. **Sound and Light:** elementary geometrical optics; vibratory motion and wave motion; a very brief introduction to spectroscopy; radiation; interference; diffraction; polarization; the characteristics of musical sounds; methods of sound analysis. Prescribed for students in Biology, Geology, B.A., M.D.

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

Text-book: Saunders, *A Survey of Physics.*

205b. **Electricity and Magnetism:** an elementary treatment of the phenomena of electricity and magnetism and electron physics. Prescribed for students in Biology, Geology, B.A., M.D.

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

Text-book: Saunders, *A Survey of Physics.*

250. **Elements of Mechanics:** a mathematical treatment of the principles of statics and dynamics with numerous applications of physical principles.

2 lectures per week: 2 credits.

Text-book: Campbell, *An Introduction to Mechanics.*

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

3 laboratory hours per week: 1 credit.

Text-book: Goodwin, *Precision of Measurements.*

254. **Sound and Light:** elementary geometrical optics; vibratory motion; spectroscopy; interference; diffraction; polarization; the velocity of light; the propagation of sound; the characteristics of musical sounds; methods of sound analysis; the basis of architectural acoustics. Prescribed for students in Mathematics and Physics, Chemistry and Physics, Chemistry.

1½ lectures, 3 laboratory hours per week: 2½ credits.

Text-books: Saunders, *A Survey of Physics.*
Edser, *Light for Students.*

255. **Electricity and Magnetism:** lectures on the principles of electricity and magnetism, including an introduction to electrical measurements. Prescribed for students in Mathematics and Physics, Chemistry and Physics, Chemistry.

1½ lectures, 3 laboratory hours per week: 2½ credits.

Text-book: Loeb, *Electricity and Magnetism.*

350. **Vector Mechanics:** an introduction to vectors and their applications to the dynamics of a particle.

3 lectures per week: 3 credits.

352. **Properties of Matter and Heat:** a mathematical treatment of periodic motion, gravitation, elasticity, surface tension, osmosis, changes of state, laws of gases.

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

Text-book: Newman and Searle, *The General Properties of Matter.*

354. **Geometrical and Physical Optics:** a more advanced treatment of theoretical and applied optics.

2 lectures, 6 laboratory hours per week: 5 credits.

Text-books: Taylor, *College Manual of Optics.*
Robertson, *Introduction to Physical Optics.*

355a. **Electrostatics and Magnetism:** a mathematical treatment of the phenomena of static electricity and magnetism.

2 lectures per week: 1 credit.

Text-book: Page and Adams, *Principles of Electricity* (Van Nostrand). Chapters 1-4 inclusive.

360. **Vector Mechanics:** similar to Physics 350, but with the addition of laboratory work in the first term.

3 lectures per week throughout the year, 3 laboratory hours per week in the first term: 3½ credits.

364. **Geometrical and Physical Optics:** similar to Physics 354, but with less laboratory work.

2 lectures, 3 laboratory hours per week: 4 credits.

451b. **Fourier Series:** an introduction to Fourier's analysis of wave-motion, with applications to the theory of heat conduction, and to the vibrations of plucked strings.

2 lectures per week, one term: 1 credit.

453. **Thermodynamics:** a treatment of the laws of thermodynamics, heat engines, reversible cycles, radiation, energy distribution.

2 lectures per week: 2 credits.

Text-book: Birtwhistle, *Thermodynamics.*

455. **Electricity and Magnetism:** a continuation of course 355; current electricity, electromagnetic induction, the development of Maxwell's equations for the electromagnetic field.

2 lectures per week: 2 credits.

Text-book: Page and Adams, *Principles of Electricity* (Van Nostrand).

456. **Recent Advances in Physics:** a course on selected topics, with outside reading, including conduction through gases, measurement of electronic charge, radioactivity, positive ray analysis, atomic theory.

2 lectures per week: 2 credits.

458. **Seminar:** preparation and reading of articles from current magazines as well as historical essays. Prescribed for fourth year students and optional for all students in the Mathematics and Physics course.

1 hour per week: 1 credit.

459. **Laboratory Course:** designed as an accompaniment to the lecture work of the fourth year. Special emphasis is laid upon individuality of work and resourcefulness. As far as possible, training is given in research methods.

9 laboratory hours per week: 3 credits.

Courses Leading to the Degree of M.A.

505. **Vacuum Tube Theory and Practice:** offered as a minor option to graduate students in other branches of science.
1 lecture, 3 laboratory hours per week: 2 credits.

506. **Atomic Physics:** offered as a minor option to graduate students in other branches of science.
2 lectures per week: 2 credits.

551. **Theory of Relativity:** 2 lectures per week.

553. **Theory of Thermal Radiation:** 2 lectures per week.

554. **Series in Line Spectra:** 2 lectures per week.

555. **Electrodynamics:** 4 lectures per week.

556. **X-Rays and Crystal Structure:** 2 lectures per week.

558. **Seminar.**

559. **Research.**

DEPARTMENT OF RELIGIOUS KNOWLEDGE

University College

*REV. H. B. HENDERSHOT, M.A., PH.D.,	Lecturer

Alma College

ELIZABETH ROSS, B.A.,	Instructor

Assumption College

REV. W. P. MCGEE, M.A.,	Professor

Ursuline College

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

Waterloo College

REV. F. B. CLAUSEN, D.D.,	Professor
REV. H. L. HENKEL,	Professor
REV. S. W. HIRTLE, B.A.,	Professor
REV. C. H. LITTLE, B.A., S.T.D., D.D.,	Professor
REV. G. SANDROCK,	Professor

*By appointment of the United Church of Canada.

Offered at University College only.

30. **The Problems of Religion:** A study of the spiritual outlook upon life and the Christian faith as the highest expression of this; the Christian idea of God, evil, sin, redemption, forgiveness, etc. This course will involve a preliminary survey of rival world outlooks—naturalism, materialism and mechanism.

2 hours per week: 2 credits.

Offered at Assumption College only.

10x and 11x. **Religious Knowledge:** lectures, prescribed reading. Revelation in general; pre-Christian revelation; Christian revelation; foundation and marks of the Church; nature of God; the Trinity; creation; redemption.

2 hours per week: 2 credits.

Text-book: Wilmers, *Handbook of the Christian Religion.*

20x and 21x. **Religious Knowledge:** a course on the dogmatic and moral teachings of the Catholic Church: Grace, the Sacraments, Christian morality, basis of morality, duties towards God, duties towards our neighbor, capital and labour. Lectures and prescribed reading.

2 hours per week: 2 credits.

Text-book: Wilmers, *Handbook of the Christian Religion.*

30x. **Apologetics:** lectures and prescribed reading. De vera religione; religion in general; revealed religion; Divinity of the Christian religion.

2 hours per week: 2 credits.

Text-book: A. Tanquerey, *Synopsis Theologiae Dogmaticae, Vol. I.*

31x. **An introductory course on the Bible:** lectures. Inspiration; methods of interpretation; canonics; Biblical history.

1 hour per week: 1 credit.

References: Gigot, *General Introduction to the Study of Scripture.*
Seisenberger, *Practical Handbook of the Study of the Bible.*

40x. **Apologetics:** lectures and prescribed reading. De Ecclesia Christi; Divine institution; constitution. De Fontibus Revelationibus; scripture; tradition; modernism; present-day religious conditions.

2 hours per week: 2 credits.

Text-book: A. Tanquerey, *Synopsis Theologiae Dogmaticae, Vol. I.*

41x. **Church History:** a course covering the broad outlines of Church History. Conversion of the Empire; Genius of the Middle Ages; the Renaissance and the Reformation; the Church and Nationalism.

1 hour per week: 1 credit.

References: Kurth, *The Church at the Turning Points of History.*
Birkhaeuser, *History of the Church.*
Belloc, *Europe and the Faith.*
Pastor, *History of the Popes.*

Offered at Ursuline College only.

10x. **Apologetics:** lectures, prescribed reading and essays. The Existence, Nature and Attributes of God; the nature of man; Natural Religion; Revelation; the Divinity of Christ.

1 hour per week: 1 credit.

Text-book: Sheehan, *Apologetics and Catholic Doctrine.*

11x. **Religious Knowledge:** Old Testament History; Creation to the disruption of Solomon's Kingdom; Biblical languages; Biblical archaeology; canonics.

1 hour per week: 1 credit.

Text-books: The Old Testament.
Laux, *Introduction to the Bible.*
Richards, *Scripture History.*

20x. **Apologetics:** lectures, prescribed reading and essays. The Divinity of Christian Religion; Non-Christian Religions; the Christian Church; Government of the Church; relations between Church and State.

1 hour per week: 1 credit.

Text-book: Sheehan, *Apologetics and Catholic Doctrine.*

21x. **Religious Knowledge:** Old Testament History, disruption of Solomon's Kingdom to the Birth of Christ; the prophetical office; Messianic prophecies; Jewish sects.

1 hour per week: 1 credit.

Text-books: The Bible.
Laux, *Introduction to the Bible.*
Richards, *Scripture History.*

30x. **Christian Doctrine:** lectures, prescribed reading and essays. The Authority of the Church; Faith; the Divine Essence; the Blessed Trinity; the Creation; the Incarnation; the Redemption.

1 hour per week: 1 credit.

Text-book: Sheehan, *Apologetics and Catholic Doctrine.*

31x. **Church History:** lectures, prescribed reading and essays. Christian Antiquity and Mediaeval Church History, from the Birth of Christ to the year 1500 A.D.

2 hours per week: 2 credits.

Text-book: Birkhaeuser, *History of the Church.*

40x. **Christian Doctrine:** lectures, prescribed reading and essays. God, the Sanctifier; the Sacramental System; the Last Things.

1 hour per week: 1 credit.

Text-book: Sheehan, *Apologetics and Catholic Doctrine.*

41x. **Church History:** lectures, prescribed reading and essays. The Reformation Period and Modern Church History.

2 hours per week: 2 credits.

Text-book: Birkhaeuser, *History of the Church.*

Offered at Waterloo College only.

19x. A thorough study of the life of Jesus based on the Synoptic Gospels.

1 hour per week: 1 credit.

Text-books: The Bible.
Fischer, *The Story of Jesus.*

29x. A study of the Book of Acts, with special attention to the life and epistles of St. Paul.

1 hour per week: 1 credit.

Text-book: The Bible.

39x. A survey of the history and literature of the Prophets prior to the Exile.

2 hours per week: 2 credits.

Text-book: The Bible.

47x. A Summary of the Christian Faith, setting forth the fundamental doctrines of the Sacred Scriptures from the standpoint of Evangelical Christianity.

2 hours per week: 2 credits.

Text-books: Jacobs, *A Summary of Christian Faith.*
Jacobs, *Elements of Religion.*

48x. **Church History:** lectures, prescribed reading and essays. The following parts will be given in alternate years, Part 1 in 1934-35.

1. Ancient and Mediaeval Church History;
2. The Reformation Period and Modern Church History.

2 hours per week: 2 credits.

DEPARTMENT OF ROMANCE LANGUAGES

University College

M. E. BASSETT, M.A., Professor
W. E. COLLIN, L.ès L., M.A., Assistant Professor
A. DOROTHY TURVILLE, PH.D., Assistant Professor
H. E. JENKIN, B.A., Instructor
FRANCES K. MONTGOMERY, M.A., DR. UNIV. PAR., Instructor

Alma College

MRS. HARRIET DOBSON, B.A., Instructor

Assumption College

REV. E. J. LAJEUNESSE, M.A., Professor

Ursuline College

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

Waterloo College

HELEN R. REESE, M.A., PH.D., Professor
LOUISE TWIETMEYER, B.A., Instructor

FRENCH

General course students may, with the consent of the Head of the Department, elect French 381 and 491 as optional credits towards graduation.

10. **Intermediate French:** grammar, dictation and translation.

3 hours per week: 3 credits.

Text-books: About, *Le roi des montagnes* (Blackie).
Galland and Vaughan, *Progressive French Grammar* (Macmillan).
Acremant, *Ces dames aux chapeaux verts* (Ginn).
Grimm, *Seize petits contes* (Ginn).
Loti, *Le roman d'un enfant* (Heath).
de Sauze, *Sept comedies modernes* (Holt).
Schwartz, *Histoires gaies* (Heath).

20. **Advanced French:** grammar, dictation, translation, and some training in literary appreciation.

4 hours per week: 4 credits.

Prerequisite: French 10.

Text-books: Ritchie and Moore, *Elementary French Composition* (Nelson).
Atkin, *Canadian Commercial French Grammar* (Pitman).
Erckmann-Chatrian, *Madame Thérèse* (Holt).
La Brète, *Aimer Quand Même* (Heath).
Rieu, *La Chanson de Roland* (Methuen).
Fannière, *Modern French Short Stories* (Oxford).
Pargment, *La France et les Français* (Macmillan).
Lenotre, *Le Roi Louis XVII* (Crofts).
Beaumarchais, *Le Barbier de Séville* (Dent).
Molière, *Le Bourgeois Gentilhomme* (Heath).

30. **Outline of French Literature:** (origins to 1700 A.D.): dictation, translation and prose composition. The students registered in Secretarial Science and Business Administration will take commercial prose.

3 hours per week: 3 credits.

Prerequisite: French 20.

Text-books: Guyer, *The Main Stream of French Literature* (Heath).
Rieu, *La Chanson de Roland* (Methuen).
Bédier, *Tristan et Iseut* (Century).
Williams, *Aucassin et Nicolette* (Crofts).
Thiéry, *Histoire de France* (Dent).
Corneille, *Le Cid* (Heath).
Molière, *Les Précieuses Ridicules* (Heath).
Molière, *Le Bourgeois Gentilhomme* (Heath).
Racine, *Phèdre* (Heath).
La Fontaine, *Fables* (Holt).
Ritchie and Moore, *Elementary French Composition* (Nelson).
Atkin, *Canadian Commercial French Grammar* (Pitman).

35. **Scientific French:** a course in the reading of scientific French, from text-books or journals, supplemented by some reading in the special field of research of each student.

1 hour per week: ½ credit.

Prerequisite: French 10.

40. **Outline of French Literature** (1700 A.D. to present time): rapid reading and translation. Selected students in Secretarial Science and Business Administration will take this course as Commercial French.

3 hours per week: 3 credits.

Prerequisite: French 30.

Text-books: Lesage, *Gil Blas* (Heath).
Marivaux, *Jeu de l'amour et du hasard* (Heath).
Montesquieu, *Lettres Persannes* (Oxford).
Voltaire, *Zadig* (Heath).
Rousseau, *Les Confessions* (Larousse).
Musset, *On ne badine pas avec l'amour* (Oxford).
Hugo, *Ruy Blas* (Heath).
Berthon, *Nine French Poets* (Macmillan).
Balzac, *Eugénie Grandet* (Heath).
Daudet, *Tartarin de Tarascon* (Dent).
Rostand, *La Princesse Lointaine* (Heath).
Romains, *Knock* (Century).
Hémon, *Maria Chapdelaine* (Macmillan).
Bouchard, *Vieilles Choses, Vieilles Gens* (Montreal).

45. **Scientific French:** an advanced course in the reading of Scientific French bearing upon the student's special field of research.

1 hour per week: ½ credit.

Prerequisite: French 35.

Honour Courses

All students in Honour Courses will take the comprehensive examinations at the end of their final year, as indicated on page 40 of this Announcement.

270. **The Literature of the Seventeenth Century:** lectures, reading, discussion and reports. Prescribed for honours in Modern Languages and Romance Languages; optional for Honour English and History.

3 hours per week: 3 credits.

Prerequisite: Junior Group 3 (page 66).

271. **Prose Composition and Conversation.**

1 hour per week: 1 credit.

Prerequisite: Junior Group 3 (page 66).

380. **The Literature of the Eighteenth Century:** lectures, reading, discussion, reports in French. Prescribed for Honour Modern Languages and Romance Languages; optional for Honour English and History.

3 hours per week: 3 credits.

Prerequisite: French 270.

381. **French Phonetics and Conversation.**

3 hours per week: 3 credits.

Prerequisite: French 271.

This course is given also at Trois Pistoles, P.Q., during July and August.

460. **Pre-Classical Period:** Historical grammar; Mediaeval and Renaissance literature.

2 hours per week: 2 credits.

Prerequisite: French 380.

467. **French Civilization:** a background course for students of French. Required for Honour Romance Languages.

2 hours per week for one term: 1 credit.

Prerequisite: French 380, or 30.

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

3 hours per week: 3 credits.

Prerequisite: French 380.

491. **Advanced Composition and Conversation.**
2 hours per week for one term: 1 credit.
Prerequisite: French 381.

Courses Leading to the Degree of M.A.

550. **Contemporary French Poetry.**
551. **Advanced French Composition.**
553. **Old French and Philology.**
560. **The Literature of French Canada.**

ITALIAN

20. Grammar, pronunciation, translation of simple texts. Not given in 1934-35.
3 hours per week: 3 credits.

Text-books: Russo, *Elementary Italian Grammar* (Heath).
Wilkins, *Italia* (Chicago Press).
Goldoni, *Il vero amico* (Heath).
Wilkins and Santelli, *Beginners' Italian Reader* (Heath).
Bowen, *Italian Reader* (Heath).

30. **Outline of Italian Literature:** translation and composition. Given in 1934-35.
3 hours per week: 3 credits.
Prerequisite: Italian 20.

220. Identical with 20.

330. Identical with 30.

SPANISH

10. **Elementary Course:** grammar, pronunciation, dictation, translation, memorization of short fables and poems.
4 hours per week: 4 credits.
Prerequisite: Complete Pass Junior Matriculation.

Text-books: House and Mapes, *Essentials of Spanish Grammar* (Ginn).
Peers and Gonzalez Ruiz, *Six Tales from Calderon* (Holt).
Carrion and Aza, *Two Spanish Plays* (Holt).
Selgas, *La mariposa blanca* (Holt).

20. **Selected Masterpieces of Spanish Literature:** lectures, reading, translation, discussion and reports.
2 hours per week: 2 credits.
Prerequisite: Spanish 10 or equivalent.

21. **Grammar, Composition and Conversation.**
1 hour per week: 1 credit.
Prerequisite: Spanish 10 or equivalent.

30. **The Contemporary Spanish Novel:** lectures, reading, translation, discussion and reports.
2 hours per week: 2 credits.
Prerequisite: Spanish 20 or equivalent.

31. **Grammar, Composition and Conversation.**
1 hour per week: 1 credit.
Prerequisite: Spanish 21 or equivalent.

40. **Spanish Drama from its Origins to the Seventeenth Century.**
2 hours per week: 2 credits.
Prerequisite: Spanish 30, or equivalent.

41. **Advanced Composition and Conversation.**
1 hour per week: 1 credit.
Prerequisite: Spanish 31 or equivalent.

220. Identical with 20.

221. Identical with 21.

260. **Spanish Drama:** prescribed for Honour Spanish students of the second year along with Spanish 220 and 221.
1 hour per week: 1 credit.

330. Identical with 30.

331. Identical with 31.

360. **Contemporary Drama and Verse:** lectures, reading, translation, discussion and reports.
2 hours per week: 2 credits.
Prerequisite: Spanish 220, 260.

440. Identical with 40.

441. Identical with 41.

450. **Spanish Ballad and Lyric Poetry and Early Novel.**
2 hours per week: 2 credits.
Prerequisite: Spanish 360 or equivalent.

453. **Phonology and Morphology of Spanish:** supplementary to 450.
1 hour per week: 1 credit.
Prerequisite: Spanish 360.

DEPARTMENT OF SECRETARIAL SCIENCE

MARGARET G. KEYES, Graduate, Kensington College.	Assistant Professor
LORNA BIRTLES, Kensington College,	Instructor
LOUISE WISMER, B.A.,	Instructor
MABEL A. HYND,	Assistant

Students are warned that the difficulty of adjusting timetables makes it impossible for those who are unable to pass the final tests of each year to take general Arts subjects of a succeeding year in conjunction with their Shorthand and Typewriting. Therefore students who fail to pass in one or more of their subjects are faced with the possibility of having to lose an entire year.

Students taking courses in this department will be charged a laboratory fee of four dollars in each of the second, third and fourth years.

Shorthand and Typewriting

These two subjects are interdependent. As soon as speed has been attained by the student, combined tests are given periodically, and the student progresses in these subjects concurrently, unprepared matter being taken down in shorthand and transcribed on the typewriter.

28-29. **Shorthand and Typewriting:**

Pitman's Shorthand: theory; speed up to fifty words per minute, and typed transcription of notes.

Touch system of typewriting; care of machine; letter styles; copying from manuscript and printed matter; centreing; accuracy and time tests.

12 hours per week: 6 credits.

Prerequisite: first year General Course (page 67) without conditions.

Text-books: *New Standard Course in Pitman's Shorthand.*
Pitman, *Shorthand Dictionary.*
Stuart, *Typewriting.*

37. **Office Practice:** the foundation of the work in Office Practice is laid in the third year. Lectures are given on office methods, and actual duties are undertaken in the Secretarial Science Office of the University.

6 hours per week: 3 credits.

Prerequisites: Secretarial Science 28-29.

38-39. **Shorthand and Typewriting:**

Shorthand speed up to ninety words per minute; typed transcription of notes.

Typewriting from manuscript; tabulation; carbon copies; telegrams; financial statements; ditto master and stencil; legal documents; accuracy and time tests.

12 hours per week: 6 credits.

Prerequisites: Secretarial Science 28-29.

Text-books: Pitman's *Shorthand Dictionary.*
Stuart, *Typewriting, Second Book.*

47. **Office Practice:** the responsible duties of the various members of an office staff and the operation of modern office equipment are undertaken by the fourth year students. Units of work are assigned in rotation.

Lectures are given on secretarial duties, office organization, the administration of services, the problem of office personnel.

15 hours per week: 7 credits.

Prerequisites: Secretarial Science 37, 38 and 39.

48-49. **Shorthand and Typewriting:**
Shorthand speed up to 120 words per minute; typed transcription of notes.

Typewriting: speed up to 60 words per minute; typing from advanced copy (technical matter, foreign languages) and from dictation.

10 hours per week: 5 credits.

Prerequisites: Secretarial Science 38-39.

Text-book: Pitman's *Shorthand Dictionary.*

THEOLOGICAL OPTIONS

Offered by Huron College

Apologetics

PROFESSOR SAGE

30x. **Evidences.** Belief in the Divinity of Jesus Christ:

(a) His moral teaching and influence;

(b) The manifestations of His power over the natural world.

2 hours per week: 2 credits.

Text-books: Harris, *Pro Fide.*
Gore, *Belief in Christ.*

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

(a) Cosmological;

(b) Teleological;

(c) Moral.

2 hours per week, first term: 1 credit.

Text-books: Harris, *Pro Fide.*
Gore, *Belief in God.*

32x. **Comparative Religion.** History of Religion:

(a) The origin and nature of religious consciousness;

(b) Tribal, national and universal religions;

(c) The elements common to religions and their values.

2 hours per week, second term: 1 credit.

Text-books: Menzies, *History of Religion.*
Watson, *Religions of the World.*

Biblical Literature

PRINCIPAL WALLER

10x. **Old Testament:** An introductory course in selected portions of the Old Testament, including memorization.

1 hour per week, one term: ½ credit.

21x. **New Testament:** An introductory course in selected portions of the New Testament, including memorization.

1 hour per week, one term: ½ credit.

30x. **Old Testament General, I.** From the beginning of Scripture History to the death of Solomon, with more particular reference to the period from the sojourn in Egypt.

1 hour per week, one term: ½ credit.

31x. **New Testament General, I.** The New Testament period with more special reference to the history in the Acts of the Apostles and concurrent Pauline Epistles up to Acts 20.

1 hour per week, one term: ½ credit.

40x. **Old Testament General, II.** From the death of Solomon to the close of the Old Testament canon. The Prophets are studied historically in connection with the periods in which they lived.

1 hour per week, one term: ½ credit.

41x. **New Testament General, II.** History with concurrent Biblical literature from Acts 20 to the close of the New Testament canon.

1 hour per week, one term: ½ credit.

N.B.: The above lectures are usually given in alternate years. They are supplemented by more intensive study of particular books in other courses.

Text-book: In every case, the English Bible.

Church History

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

2 hours per week: 2 credits.

Text-book: Foakes-Jackson, *The History of the Christian Church from the Earliest Times to A. D. 461.*

40x. **History of the Church in England:** the early period to 1603.

2 hours per week: 2 credits.

Text-books: Overton, *The Church in England* (Two Volumes).
Patterson, *History of the Church of England.*
Vernon, *The Old Church in the New Dominion.*
Reference: Stephens and Hunt, *History of the Church of England* (Eight Volumes).

41x. **History of the Church in England:** the later period from 1603 to the present time; lectures on the modern expansion of the Church.

2 hours per week: 2 credits.

Text-books: See 40x above.

42x. **History of the Reformation.**

2 hours per week: 2 credits.

Text-book: Fisher, *The Reformation.*

DEGREES CONFERRED IN 1933

MAY 5th (SPECIAL CONVOCATION)

DOCTOR OF DIVINITY

(Huron College)

William Leslie Armitage

BACHELOR OF DIVINITY

(Huron College)

Kenneth Elder Taylor

June 7th

DOCTOR OF LAWS

Herbert Alexander Bruce

MASTER OF ARTS

(University College)

John Irwin Cooper
Andrew Harold Fitzsimons
George Robert Munro
Louis Henry Simmons
Harry Clayton Steels
David Clarence Thomson
Verlie Dorothy Williamson
Ross Baxter Willis
Mary Elizabeth Wright

MASTER OF SCIENCE

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Angus Duncan McLachlin
John Beverley Cooper Robinson
Cyril Francis Sullivan

DOCTOR OF MEDICINE

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Murray Llewellyn Barr
Robert Adair Bayne
Jean Fraser Campbell
William Carlyle Carnaghan
Arthur George Burroughs Copp
Violet Mabel Crabbe
Orlo Vernon Dent
Helen Irene Doan
Lavern Christian Fischer
Douglas Hewitt Fryer
George Gonem George
Frank James Gugino
Archibald Stanley Hammond
Wilbert Walter Hollands
Roger Alfred Jackson
Gilbert Campbell Jarrott
Nelles Boyd Laughton
James Grice McDermott
Robert Neil MacPherson
Earl Vincent Metcalfe
McLay McMurrich Miller
Herbert Andrew Mosser
Allan Denton Riddell
Wilfrid Elliott Riddolls
Dave Burnard Ruskin
John Alexander Ruttle
Burwell Seymour
Gordon MacKay Soper
Charles Allan Stewart
George Henry David Stull
Daniel Elmer Sturgis
Wilfred Laurier Turnbull
Mervyn D'Arcy Upton
Silvio Louis Valeriote
Aileen Beatrice Vining
Gordon Edward Wride

DIPLOMA IN BUSINESS ADMINISTRATION

Charles Harold Abray
John Edward Boyle
Douglas Leonard Tait

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Alban Francis Armitt
Marjorie Kathleen Armstrong
Orville Adams Edward Back
Margaret Belle Baird
Jean Elizabeth Barrett
Albert Hillary Bartley
Melville Beecroft
Mary Alberta Benham
Lillian Rea Benson
Thomas Wilmington Billington
Margaret Mary Bindner
Louise Milne Blake
Roy Clifford Bondy
Jean Lenore Brien
Florence Margaret Brown
Hadley Morgan Brown
Bernard George Buley
James Cowin Caley
Donald St. Clair Campbell
Frederick Douglas Carney
Aileen Elizabeth Clark
Gilbert Campbell Clarke
Roy Edison Clunas
Thelma Coleman
Harry Lloyd Collins
Dorothy Jeanette Columbus
Leo Thomas Conlin
Blanche Mary Cowley
Lenore Talbot Crawford
Hugh John Creech
Reeta Jean Crocker
Constance Louisa Crockett
Mary Helen Louise Davis
Nora Clare Elizabeth Dawson
Dorothy Gertrude Bentick Dejean
Horace Anthony DeLuca
Vera Jean Doherty
Clifford Hugh Dowker
Hilda Ruth Dresser
William John Ellison
Gladys Marie Errington
Erma Bernice Finch
Mary Cecelia Finney
Maurice Erle Fisher
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Edward Lorne Fox
Gordon Herbert Francis
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John Clement Garrett
Edna Veronica Gaulin
William Edgar Gill
Donald James Gladman
Courtney Gilbert Gregory
Lloyd Dufferin Griffith
John William Gunn
Esther Lenore Harrington
James Robert Henderson
Keith Oxby Henderson
Kathleen Henson
Benjamin Howard Higgins
Viola Yetive Honsinger
Marion Elston Hooper
John Millar Inwood
David Ivor
Gerald Alison James
Clement William Janes
David William Beatty Johnston
Blake Atkins Kennedy
George William Kennedy
Cyril Arnott Lapsley
Francis Lawson
Malcolm McMaster Leitch
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Douglas Edmondson Lofft
Lorna Marion Mallough
Maurice Edwin Manderson
Arthur Leonard Manley
Allan Henry Mason
Philip Marshall Macdonald
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Robert Wesley Shaw McEwen
Clifford Malcolm McGoun
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Robert Lyle McKay
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Orris Laurine McMullen
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Harold Simpson Minielly
Julia Cecelia Moore
William Patrick Moylan
John Forristal Mugan
Samuel Gordon Munro
Leola Ellen Neal

Mary Alice Nott
Elinore Jean O'Brien
Mary Jean Osborne
George Gordon Paterson
Electa Viola Philpot
Frank Purdy
John Joseph Quigley
Nicholas Hackett Rainsberry
Grace Mary Rath
Margaret May Raymond
Donald Baker Rivers
Harry Benjamin Rockey
William Robert Rowland
John Caleb Royle
Charlotte Rundle
Olive Enid Saunders
Glenn Ivan Sawyer
John George Schnarr
Gertrude Shapiro
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John Franklin Shepley
Inez Willena Sheppard
Wallace Beresford Shute
Otto Carl Simmers
Goldwin Albert Smith
Howard Albert Smith
Margaret Isobel Smith
Albert Aubrey State
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John Ross Stevenson
Robert Gibson Stevenson
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Walter Bennett Stewart
Arthur David Stillman
Henry Gordon Stratton
Ernest Donald Stuart
Merva Irene Stuart
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Arthur Donaldson Thompson
Janet Mary Thomson
William Robert Alexander Thomson
Jack Anthony Tillmann
Agnes Beryl Tindall
Leo John Wilson Totten
Marian Isabelle Turner
Michael Ontario Valeriote
Margaret Elizabeth Waide
Donald Gordon Wallace
Walter Mervin Wass
Joseph Lacey Willis
Stewart Allan Woods
Donald John Alexander Wright
Albert Wyldes

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Olive Collins
Peter Bernard Graf
Elmer Joseph Hatton
James Fergus Houlihan
Yvonne Mary Kelly
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Mary Elizabeth McCabe
Daniel Kenney McMahon
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Leonard William Oberle
Alvin Charles O'Grady
Shirley Louise Pethick
Carl Ambrose Pettit
Mary Barbara Taepke
Arleene J. Walker (Mother M. Rosanna)
Carl George Walsh

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James Edward Byrne
Charles Anthony Cerre
Frederick Joseph De Muy
Lawrence Arthur Deziel
Michele Di Stasi
Richard Joseph Drouillard
Martin Joseph Gagie
Jerome Vincent Gruber
James Albert Holden
Clifford Joseph Langlois
Patrick Joseph Lewis
Clarence Joseph Marentette
Paul Joseph McCormack
Bernard Stanley Nowosielski
Arthur Joseph Rivard
James Russell Turnbull
Robert Young
William Young

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Arthur Welburn Jones
Karl John Julius Knauff
James Moore Lochead
William Carl Nolting
Armin Martin Schlenker
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Margery Tailby

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Mary Fleckser (Sister M. Ruth)
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Jean Merritt McNaughton
Mary Gladys Owen

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Agnes Bell Campbell
Ruby Muriel Carter
Marie Alice Cloutier
Florence Lillian Farr
Adelina Victoria Fowler
Gwendolyn Minnie Fowler
Dolores Emma Klassen
Leita Madeline McDonald
Agnes Dorothy Alice Milks
Isabella Mary Pringle
Marjorie Anne Rutherford
Hilda Mary Seager
Florence Amelia Taylor
Luella Clarissa Wing

CERTIFICATE OF HOSPITAL ADMINISTRATION

Marjory Violet Young

October 27th

DOCTOR OF LAWS

John Thomas Kidd
Sir William Henry Clark
Charles Allen Seager
George Franklin Rogers

MASTER OF ARTS

(University College)

John Clinton Sowden

MASTER OF ARTS

(Ursuline College)

Thomas Joseph McCarthy

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(University College)

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Louise Helen Dickson
Anne Sophia Dundas
Clara Matilda Dundas
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Verna Agnes McClary
Eleanor Gene MacDougall
David Beattie McPherson
Walter Chalmers Chapman Moffat
Gerald James O'Reilly
Cecilia Magdalen Oster
Cornelius Peter Prinsen
Alexander Rapson
Russell Reid
Arthur Prescott Silcox
Leland Andrew Wemple
Nesbitt MacPherson Woods
Herbert Alexander Young

(Assumption College)

Paul Joseph Ray

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SUMMARY OF REGISTRATION IN FACULTY OF ARTS
1933-34

Year in Course	University College	Alma College	Assumption College	Huron College	Ursuline College	Waterloo College	Totals
Full Time:							
First	181	2	113	5	19	35	355
Second	170	..	34	5	21	9	239
Third	173	....	23	7	22	15	240
Fourth	143	....	24	5	9	17	198
Graduate	11	....	....	....	....	3	14
Part Time:							
Graduate	31	....	8	1	....	3	43
Undergraduate	36	4	29	3	7	15	94
Extramural	190	.....	....	....	....	....	190
Summer School	259	.....	....	....	....	....	259
Extension	105	.....	....	....	....	....	105
TOTALS	554	745	6	231	26	78	97	1737
Duplicates		.....	....	....	....	....	....	227
								1510
Faculty of Medicine								**225**
Faculty of Public Health								**21**
University Total								**1756**

REGISTRATION IN FACULTY OF ARTS
1923-24—1933-34

Year	University College	Alma College	Assumption College	Huron College	Ursuline College	Waterloo College	Duplicates	Net Total
1923-24	462	..	33	27	55	..	47	530
1924-25	526	..	32	22	59	..	55	584
1925-26	650	3	45	20	52	31	81	720
1926-27	676	..	44	16	65	33	54	780
1927-28	684	3	57	13	75	29	57	804
1928-29	787	4	66	20	87	19	71	912
1929-30	900	..	92	19	91	29	86	1045
1930-31	942	5	116	19	89	35	112	1094
1931-32	1128	..	101	23	111	54	141	1276
1932-33	1332	8	189	26	85	58	204	1494
1933-34	1299	6	231	26	78	97	227	1510