UNIVERSITY OF WESTERN ONTARIO

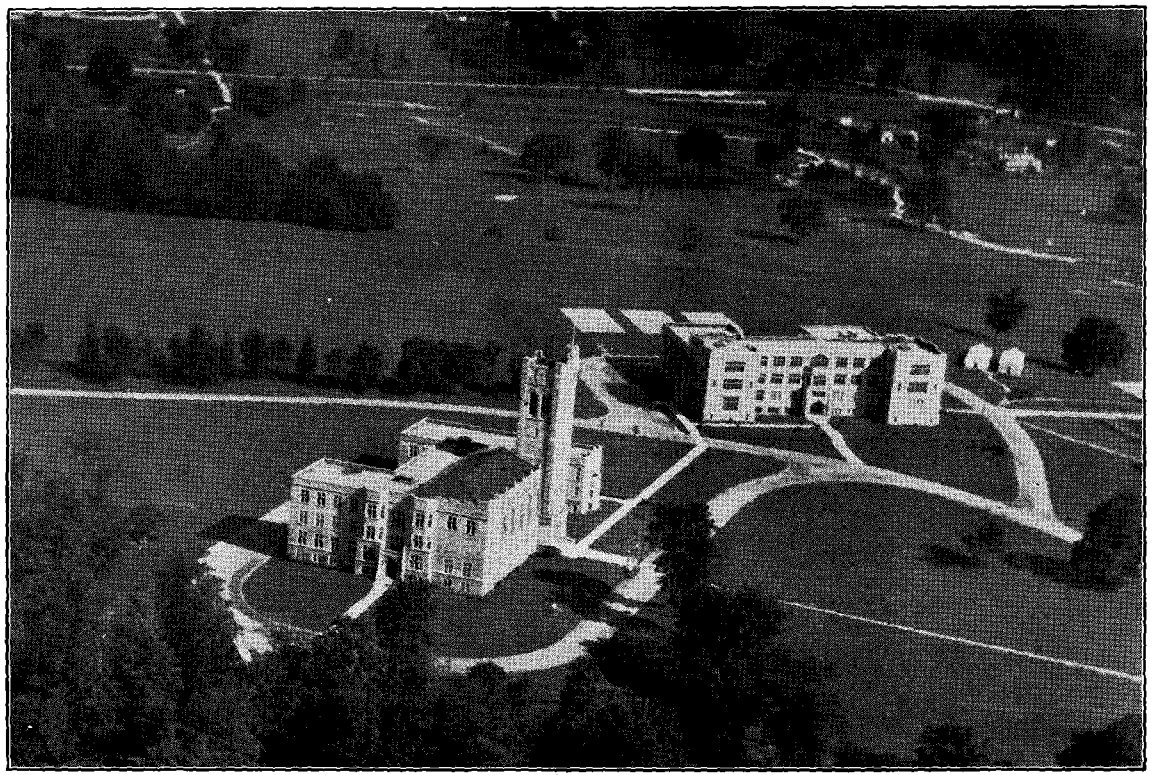
LONDON - CANADA

FACULTY of ARTS



UNIVERSITY COLLEGE
ASSUMPTION COLLEGE
ST. PETER'S COLLEGE
URSULINE COLLEGE
WATERLOO COLLEGE
HURON COLLEGE
ALMA COLLEGE

Announcement 1939-1940



AERIAL VIEW OF THE UNIVERSITY OF WESTERN ONTARIO, SHOWING THE ARTS AND NATURAL SCIENCE BUILDINGS

UNIVERSITY OF WESTERN ONTARIO

LONDON - CANADA

FACULTY of ARTS



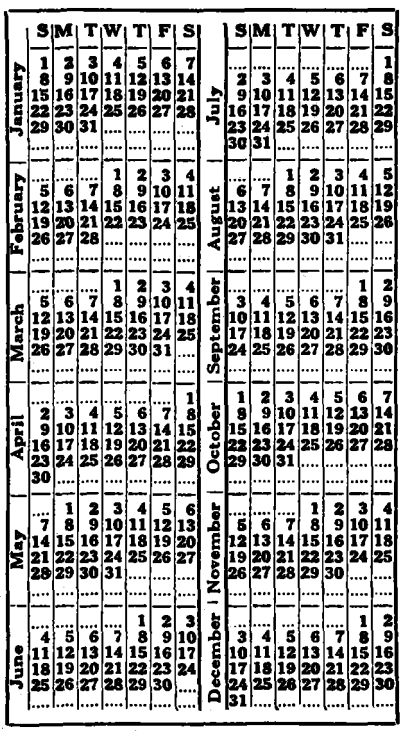
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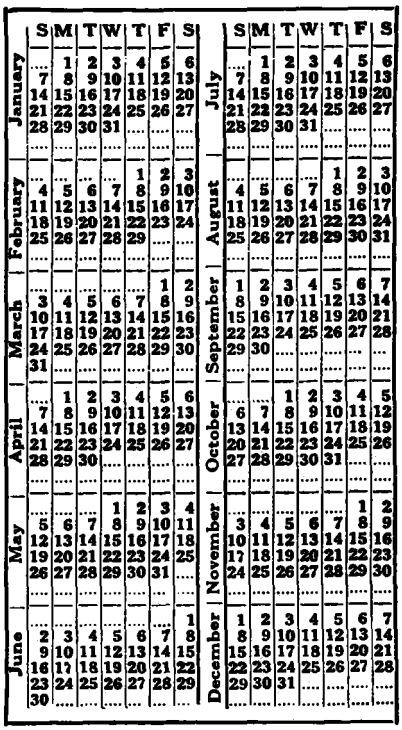
1939



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	29	30	31				

CALENDAR OF FACULTY OF ARTS

1939

July 1, Saturday ..... Last day for receiving applications for supplemental examinations.

August 14, Monday ..... Supplemental examinations begin.

September 23, Saturday ..... Registration day for second, third and fourth year students from London.
9-1 o'clock

September 25, Monday ..... Registration day for all Freshmen.

September 26, Tuesday ..... Registration day for second, third and fourth year students from centres other than London.

September 27, Wednesday ..... Lectures begin. Late registration penalty of two dollars.

October 4, Wednesday ..... Last day of registration except on penalty of three dollars.

October ..... Thanksgiving Day, holiday.

October 11, Wednesday ..... Last day of registration for full-time students and for M. A. candidates.

October 27, Friday ..... Prize Day Exercises: Autumn Convocation.

December 20, Wed. 5.00 p.m. .... Christmas vacation begins.

1940

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

January 15, Monday ..... Midyear examinations begin.

January 27, Saturday ..... First term ends.

January 31, Wednesday ..... Second term begins; second term fees due.

February 3, Saturday ..... Last day for payment of second term fees, except on penalty of one dollar.

March 21, Thursday, 5.00 p.m. Easter vacation begins.

March 26, Tuesday ..... Lectures resume.

May 4, Saturday ..... M.A. and LL.B. theses due in Registrar's Office.
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	
LIEUT.-COL. CLAUDE BROWN, O.B.E., K.S.G.,	*Board of Governors*	(1940)
DR. A. S. DUNCAN, M.L.A.,	*Lieutenant-Governor-in-Council*	(1941)
MR. ARTHUR R. FORD,	*Board of Governors*	(1940)
MR. FRANK FORRISTAL, K.S.G.,	*Lieutenant-Governor-in-Council*	(1937)
LIEUT.-COL. GORDON INGRAM,	*London City Council*	(1942)
MR. A. T. LITTLE,	*Board of Governors*	(1940)
HON. J. P. MOORE, K.C.,	*Lieutenant-Governor-in-Council*	(1937)
COL. J. E. SMALLMAN,	*London City Council*	(1940)
MR. E. E. REID,	*London City Council*	(1941)
DR. L. S. HOLMES,	*London City Council*	(1939)
MR. H. W. STRUDLEY,	*Lieutenant-Governor-in-Council*	(1938)
MR. ARTHUR W. WHITE,	*Board of Governors*	(1940)

Officers of the Board

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

The Senate

(1938-1940)

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

	Representative of
DEAN K. P. R. NEVILLE,	*Faculty of University College*
PROFESSOR J. A. SPENCELEY,	*Faculty of University College*
DEAN F. J. H. CAMPBELL,	*Faculty of Medical School*
DR. F. R. MILLER,	*Faculty of Medical School*
DEAN A. J. SLACK,	*Faculty of Public Health*
DR. E. P. JOHNS,	*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*
PROFESSOR R. J. E. HIRTLE,	*Faculty of Waterloo College*
PRINCIPAL P. S. DOBSON, D.D.,	*Faculty of Alma College*
PRESIDENT 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*
DR. F. G. WAIDE,	*Graduates of University College*
DR. E. DAVIS,	*Graduates of Medical School*
VEN. ARCHDEACON W. J. DOHERTY, D.D.,	*Graduates of Huron College*
MR. W. A. MCGUIRE,	*Graduates of Assumption College*
DR. E. LOUGHLIN,	*Graduates of Ursuline College*
REV. K. KNAUFF,	*Graduates of Waterloo College*
DR. R. J. GORDON,	*Graduates in Public Health*
MR. FRANK FORRISTAL, K.S.G.,	*Board of Governors*
MR. E. E. REID,	*Board of Governors*
REV. W. A. TOWNSHEND,	*London Board of Education*
REV. J. A. FEENEY,	*London Separate School Board*
MR. S. E. WEIR,	*City Council of London*
DR. W. J. STEVENSON,	*City Council of London*
MR. E. J. CARTY,	*City Council of London*
DR. C. C. LUMLEY,	*City Council of St. Thomas*
MR. H. B. GALPIN,	*City Council of Sarnia*
MR. H. A. STEWART,	*City Council of Galt*
DR. W. V. HARCOURT,	*City Council of Guelph*
MR. W. B. PRESTON,	*City Council of Brantford*
MR. W. N. SEXSMITH,	*City Council of Chatham*
DR. R. S. MURRAY,	*City Council of Stratford*
MR. L. WHEELTON,	*City Council of Windsor*
MR. E. P. HODGINS,	*City Council of Woodstock*
MR. A. L. MCDOUGALL,	*County Council of Middlesex*
MR. E. S. LIVERMORE,	*County Council of Elgin*
MR. J. M. ROBERTS,	*County Council of Huron*
MR. W. MCKENZIE,	*County Council of Kent*
MR. C. O. FAIRBANK, M.L.A.,	*County Council of Lambton*
MR. A. E. ROTH,	*County Council of Oxford*
DR. G. H. JOSE,	*County Council of Perth*
MR. T. PRESTON,	*County Council of Essex*
MR. E. FINES,	*Principals, Secondary Schools*
MR. E. A. MILLER,	*Principals, Secondary Schools*
MR. D. A. SUTHERLAND,	*Principals, Secondary Schools*
MR. C. G. YORKE,	*Principals, Secondary Schools*

Officers of the Senate

Chairman,	President W. Sherwood Fox.
Secretary,	Registrar K. P. R. Neville.

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, St. Peter's 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, Ottawa, 1935, Alberta, 1937, Toronto, 1938; Professor of Classics, 1917; Dean, University College of Arts, 1919; President, 1927. 1917

Registrar

KENNETH PERCIVAL RUTHERFORD NEVILLE, M.A., PH.D.,
R. R. 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

Bursar and Executive Secretary

COL. WALTER JAMES BROWN, B.S.A., LL.M., F.C.I.S., F.R.S.A.,
1006 Wellington St.
B.S.A., Toronto, 1894; LL.M., Chicago Law School, 1898; F.C.I.S., 1926; F.R.S.A., 1935; Executive Secretary, 1920; Bursar, 1937. 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., *ibid.*, 1932. 1926

Alumni Director

JOHN MACKENZIE DOBSON, B.A., 817 Maitland St.
B.A., 1925; L.Th., Huron, 1926. 1929

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

Associate Registrar

HELEN MILDRED ALLISON, 1014 Wellington St.
B.A., 1924 1924

Assistant Librarian

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

Assistant Registrar

OLGA ALICE MILLER, 222 Broughdale Ave.
B.A., 1928. 1933

Administrative Council

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

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 four colleges teaching four-year Arts courses: viz., Assumption College, Windsor; Ursuline College, London; St. Peter's Seminary College of Arts, 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 Medical School has maintained an unbroken existence since it was first opened. In 1912 control by a joint stock company ceased and the Medical School became a 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, it was for some time compelled to struggle for existence, but in 1908 its charter was so amended that it became undenominational and was permitted to receive financial assistance from the London City Council. Later, when the student body had increased to such an extent that local finances could not possibly meet the demands, the Province assumed part of the load of current expense. The Kingsmill property, about 260 acres, north of the City of London, was bought in 1917; buildings were erected, and the Faculty of Arts was moved from downtown to the present location in 1924.

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 Arts Faculty of the University is primarily concerned with undergraduate instruction leading to a first degree. The purpose of this instruction is to produce personalities of positive value in their

environments. The ideas that should inform this process have been so strikingly stated by a leading educationist that he may well be quoted:

"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 this prescribed period will be required to pay $1.00 for late examination.

STUDENT HEALTH INSURANCE

The scheme of health insurance was designed and is operated for the benefit of the students. The first purpose of it is to protect any

student whose academic year or college course may be jeopardized by a serious accident or a prolonged illness. The second is to maintain the health and efficiency of the students. As the student body cannot make a legal contract, the University has made the contract and has also assumed the overhead costs, but the University does not assume any responsibility for claims. This responsibility is borne entirely by the Assurance Company.

No insurance claims will be paid to any student who has not taken the physical examination for the current year (see page 13).

The maximum claim for one student is $75.00. 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. No medical fees will be paid from the funds of the association unless the obligation has been sanctioned in advance by the Director of Physical Education or the department physicians.

Students registered in affiliated colleges and resident in London or St. Thomas, may secure health insurance.

UNIVERSITY CONCERT SERIES

The cultural life of the University is enhanced by the provision each year of a series of concerts by artists of high distinction in their several departments of music. The plan provides for at least three concerts during the academic year. The project is subject to the jurisdiction of the University Students' Commission and the Carnegie Music Fund Committee under the Chairmanship of the President of the University. Each full-time student in the three constituent Faculties (Arts, Medicine, Public Health) is given, in return for the payment of the music fee, a ticket of membership in the series which entitles him or her to admission to all concerts. Members of the governing bodies and of the alumni, together with their families, are admitted to membership upon payment of a fee per person arranged by the Committee for each annual series.

THE LIBRARIES

The libraries of the University (the general library, the Medical School library and the library of the Institute of Public Health) contain more than 140,000 volumes and receive currently about 500 journals and serial publications. The University Library Board has control of all three divisions. The main collection of books is housed in the Lawson Memorial Library, erected in 1934. In this building are reading rooms with a seating capacity of nearly three hundred while forty carrels in the stacks are available for advanced and graduate students.

The main library is conspicuously rich in its collections of Canadiana, Americana and books relating to Shakespeare. There are also important newspaper files, a large collection of early agricultural journals and much

important source material on the early religious and social history of Canada. The Barnett Library which came as a gift in 1918 contained many rare and uncommon works and judicious purchases made since that date have resulted in the building up of an excellent working collection of books and journals. Complete files of the more important journals are available for the use of faculty and students.

The Medical School Library contains more than 23,000 volumes, the bulk of these being complete bound files of medical journals. There is also an extensive collection in the field of medical history.

The library of the Institute of Public Health is maintained as a working collection of books and journals and contains about 1200 volumes.

In addition to the University libraries students may have access to the extensive book collections of the London Public Library on making proper application.

In his first year every student is required to secure credit in a course of instruction in the use of the library. Students in medicine receive special instruction in the use of medical indexes.

DEGREES

By its charter the University of Western Ontario may confer degrees in Arts, Medicine, Science, Agriculture, Law, Education, Music and Theology, upon persons who, having complied with the requirements, 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.); *Doctor of Divinity (D.D.).

The diplomas and certificates awarded by the University are:

Diploma in Business Administration; Diploma in Home Economics; 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 in Hospital Administration (C.H.A.).

* The degree 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

Secretary, THE ASSOCIATE REGISTRAR

DEAN K. P. R. NEVILLE,	*Faculty of University College*
PROFESSOR F. LANDON,	*Faculty of University College*
PRESIDENT T. A. MACDONALD,	*Faculty of Assumption College*
REV. V. J. GUINAN,	*Faculty of Assumption College*
MOTHER M. FRANCIS CLARE,	*Faculty of Ursuline College*
RT. REV. A. P. MAHONEY, D.P., V.G.,	*Faculty of Ursuline College*
PRESIDENT F. B. CLAUSEN, D.D.,	*Faculty of Waterloo College*
PROFESSOR R. J. E. HIRTLE,	*Faculty of Waterloo College*
PRINCIPAL C. C. WALLER, D.D.,	*Faculty of Huron College*
PRINCIPAL P. S. DOBSON, D.D.,	*Faculty of Alma College*

Officers of Administration

University College

(*London, Ontario*)

Dean

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

Secretary

A. W. DURNFORD, PH.D.

Director of Summer School and Extramural Department

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

Representative on the University Library Board

J. A. GUNTON, PH.D., F.C.I.C.

Representative on the Athletic Board

N. C. HART, M.A., F.A.A.A.S.

Representatives on the University Senate

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

J. A. SPENCELEY, M.A.

Secretary to the Dean

MABEL HYND

Secretary to Director of Summer School

OLIVE HODGINS

For Officers of Instruction, see pp. 19-32.

Alma College

(St. Thomas, Ontario)

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Dean of Residence

EDNA SPARLING, B.A.

For Officers of Instruction, see pp. 19-32.

Assumption College

(Windsor, Ontario)

President

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

Registrar

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

Bursar

REV. M. KILLORAN, B.A.

For Officers of Instruction, see pp. 19-32.

Holy Names College

(In Affiliation with Assumption College)

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Dean

SISTER MARY ELECTA, M.A.

For Officers of Instruction, see pp. 19-32.

Huron College

(London, Ontario)

Principal

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Dean of Residence

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Treasurer

J. K. H. POPE

Secretary to the Principal

DORIS AUDEN

For Officers of Instruction, see pp. 19-32.

Ursuline College

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Registrar

MOTHER M. ROSANNA, M.A.

For Officers of Instruction, see pp. 19-32.

St. Peter's Seminary College of Arts

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RT. REV. A. P. MAHONEY, D.P., V.G.

Registrar

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For Officers of Instruction, see pp. 19-32.

Waterloo College

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For Officers of Instruction, see pp. 19-32.

FACULTY OF ARTS

Officers of Instruction

Session 1938-1939

(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; P, the staff of St. Peter's Seminary College of Arts; 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).

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B.A., McMaster, 1938. 1938

REV. VINCENT L. KENNEDY (A), *Lecturer in History*
B.A., Toronto, 1923; M.A., *ibid.*, 1927; L. ès L., Strasbourg, 1933; D.Arch., Rome, 1935. 1935

MARION ELIZABETH KERR (Alma), *Instructor in Home Economics*
B.Sc., Mt. Allison, 1937. 1937

REV. RALPH ROBERTSON LATIMER (H), *Lecturer in Theological Options*
1228 Richmond St.
B.A., McMaster, 1930; M.A., *ibid.*, 1933. 1938

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

ROBERT REED LOGIE (C), *Demonstrator in Zoology*
207 Huron St.
B.A., New Brunswick, 1937. 1937

EDWARD CARSON LONGHURST (C), *Demonstrator in Physics*
10 Renwick Ave.
B.A., 1938. 1938

FREDERICK PETTIT LOSSING (C), *Demonstrator in Chemistry*
Apt. 3, 1009 Maitland St.
B.A., 1938. 1938

REV. HUGH VINCENT MALLON (A), *Lecturer in English*
B.A., Toronto, 1931. 1935

REV. JAMES FRANCIS MALLON (A), *Lecturer in Romance Languages*
B.A., Toronto, 1929. 1935

MARGARET MACLAREN (C), *Assistant in English*
B.A., 1934; M.A., Toronto, 1935. 1936

MARGARET ETHEL MILLER (C), *Demonstrator in Zoology*
309 Huron St.
B.Sc., Mount Allison, 1938. 1938

KATHLEEN ELIZABETH MILLIGAN (C), *Assistant in English and French*
119 McClary Ave.
B.A., 1936. 1937

HON. RAYMOND DUCHARME MORAND, P.C. (A),
Lecturer in Economic and Political Science
M.D., 1912. 1937

MAURICE JOSEPH MULLIGAN (A), *Lecturer in Chemistry*
B.A., Toronto, 1923; M.A., *ibid.*, 1924. 1933

REV. JOSEPH STANLEY MURPHY (A), *Lecturer in English*
B.A., 1928; M.A., Toronto, 1934. 1932

ANDREW NASSOTTI (A), *Lecturer in Mathematics*
B.Sc., Detroit, 1934. 1934

LEOLA E. NEAL (C), *Assistant in Philosophy and Psychology*
1037 Waterloo St.
B.A., 1933; M.A., 1935. 1933

JEAN THOMPSON NEVILLE (C), *Lecturer in English*
R. R. 3, London
B.A., 1910; M.A., 1923. 1921

MARY LOUISE NEVILLE (Alma), *Instructor in Latin*
B.A., 1935; M.A., Illinois, 1938. 1935

A. COLIN NICOL (C), *Demonstrator in Zoology*
178 Thornton Ave.
B.Sc., McGill, 1938. 1938

WILLIAM A. NORFOLK (C), *Demonstrator in Geology*
261 Briscoe St.
B.A., 1938. 1938

WILLIAM BRADLEY O'SULLIVAN (H), *Lecturer in Greek*
Huron College
M.A., Trinity College, Dublin, 1921; M.A., Oxon., 1934. 1938

REV. WILLIAM JOSEPH PHELAN (U), *Lecturer in Religious Knowledge*
46 Cathcart St.
B.A., 1924. 1936

SISTER MARY RAPHAILDA (A), *Lecturer in English*
Holy Names College
B.A., De Paul, 1925; M.A., *ibid.*, 1927. 1936

RHENA KENDRICK ROBSON (C), *Lecturer in Classics*
210 Huron St.
B.A., Toronto, 1923; M.A., Bryn Mawr, 1925. 1931

SISTER M. ROSALIE (A), *Lecturer in Latin and History*
Holy Names College
B.A., Queen's, 1930; M.A., 1935. 1934

REV. WILLIAM JOSEPH ROACH (A), *Lecturer in Philosophy*
B.A., Toronto, 1896. 1936

REV. FRANCIS SYLVESTER RUTH (A),
Lecturer in Chemistry and Physics
B.A., Toronto, 1926. 1936

WENDELL R. SMITH (C), *Demonstrator in Physics*
Huron College
B.A., 1937. 1937

JOHN JOSEPH SONBERG (A), *Lecturer in German*
B.A., Toronto, 1936. 1936

GEORGE HERBERT STEVENSON (C), *Lecturer in Psychology*
Ontario Hospital
M.B., Toronto, 1918. 1937

RUTH CARSON STEWART (Alma), *Instructor in Science*
B.A., 1937. 1938

REV. KENNETH TAYLOR (H),
Lecturer in Christian Ethics and Church History
St. Thomas
B.A., Queen's, 1920; B.A., Oxon., 1923; M.A., *ibid.*, 1926; B.D., 1933. 1932

EUNICE JEAN THOMAS (U), *Instructor in Physical Education*
Brescia Hall
D.P.E., Margaret Eaton, 1938. 1938

REV. GEORGE JAMES THOMPSON (A), *Lecturer in Latin*
B.A., Toronto, 1927. 1934

REV. ASHLYN AITKEN TRUMPER (H), *Lecturer in Homiletics*
886 Lorne Ave.
L.Th., Huron, 1924. 1935

MARIANNA SOULE VAN DOREN (A), *Lecturer in Public Speaking*
Holy Names College
B.A., Marygrove, 1934. 1934

REV. JOHN ARTHUR WARING (H), *Lecturer in Economics*
Byron
B.A., 1924. 1937

REV. ARTHUR JEROME WEILER (A), *Lecturer in German*
B.A., Toronto, 1930. 1937

DORIS WESTON (C), *Assistant in Physical Education*
225 Queen's Ave.
B.A., 1938. 1938

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

REV. EDMUND MICHAEL YOUNG (A), *Lecturer in English and History*
B.A., Toronto, 1930. 1934

REGULATIONS

MATRICULATION

Subjects: Pass Junior.

A candidate for Junior Matriculation must have credit by recommendation or examination in the following subjects of the Middle School examinations of the Department of Education of Ontario:

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).

Subjects: Honour.

A candidate for Honour Matriculation must secure credit either by recommendation or examination for one or more of the following subjects of the Upper School examinations of the Department of Education of Ontario:

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

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

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

Percentages: Junior.

A candidate for Junior Matriculation will be allowed to write on one or more Middle School 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 that paper and will receive a certificate of such standing.

A candidate for Honour Matriculation will be allowed to write on one or more Upper School 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 exempt the student from the Pass work of the First Year in that subject (except in the Sciences and History), if it is included in a Junior Group.

Third Class Honours in Botany and in Zoology will exempt a student from Biological Science in Junior Groups 2, 3 and 4; Third Class Honours in Physics and in Chemistry from Physical Science in Junior Groups 2, 3 and 4.

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

EQUIVALENT EXAMINATIONS

Certificates of having passed Secondary School subjects parallel to Middle or Upper School subjects named above may be accepted *pro tanto*, provided always that the standards of these certificates meet the requirements of this University.

The senior local examinations conducted by the University of Oxford and the University of Cambridge may be accepted instead of Upper School standing in the same subjects.

A candidate applying for admission must submit an official statement of the marks on which his certificates were awarded. For an official examination of other than Ontario certificates, a fee of $2.00 is charged. Credit for this fee is allowed students who subsequently register in the University of Western Ontario.

ADMISSION

Candidates seeking admission 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 Junior Matriculation (or the equivalent) as outlined on page 33.

Candidates presenting Upper School certificates or the equivalent in at least four non-Science subjects (not papers), together with complete 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 registered may enter the second year of an Honour course for which they have the specific qualifications (see pages 65-82).

ADVANCED STANDING

From Collegiates Candidates presenting Upper School certificates in Ancient or Modern Languages or Mathematics, or the recognized equivalents of such certificates, may be credited with the corresponding subjects in the Junior Groups. For Sciences, see pages 34 and 59.

From Universities. All applications for advanced standing, except on certificates indicated above, must be accompanied by official certificates from the institution where work has been done, and be presented to the Registrar not later than September 10. These official documents must include a 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. These special students must satisfy the professors by 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 entrance requirements.

LENGTH OF COURSES

The General, Home Economics, Secretarial Science and Theological Courses are four-year courses from Junior Matriculation, but they can be completed in three years of satisfactory work by a student who presents credits obtained at the examinations of the Department of Education of Ontario in four Upper School subjects (eight papers) corresponding to subjects prescribed in the first year of each course (see page 34.) The Honour Courses, except as mentioned below, are five-year courses from complete Junior Matriculation or four-year courses from complete Junior Matriculation and Honour Matriculation in four subjects. The Honour Courses in Philosophy, except in University College, require four years from complete Junior Matriculation (see pages 77-80).

EXAMINATIONS

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 a time determined by the Registrar in consultation with the department involved.

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 Grade E, 40 to 49 per cent., entitles the student to a supplemental, subject to the regulations governing supplementals (see page 37). Grade F, less than 40 per cent., indicates a total failure and the necessity of repeating the course in class.

No student will be admitted to the degree of Bachelor of Arts in the General, the Home Economics, the Secretarial or the Theological Course who has not obtained at least Grade D on all the prescribed and elective work of his course and who has not obtained at least Grade C on one-half the credits required for the Senior Group, or the third and fourth years, 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 when 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 the completed work. This examination is to be held during the regular January examination period. Third and fourth year Honour classes in which examinations are not set will continue without interruption during the mid-year examination period.

Candidates in the Honour Courses in any department will be ranked in order of merit in that department in four classes; those who obtain 75 per cent. or over of the total number of marks will be placed in Class I; those who obtain 66 per cent. to 74 per cent. will be placed in Class II; those who obtain 60 per cent. to 65 per cent. will be placed in Class III; those who obtain between 50 per cent., the minimum for pass, and 59 per cent., will be placed in Class IV; but an average of Class IV over all the honour subjects of the fourth year (with no failure on any paper) will entitle the candidate to a General and not an Honour Degree. (See page 39).

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 broad aspects of the student's Honour Course. They are additional to the course examinations.

Students entering Honour Courses should observe that the purpose of their college work is not simply the creditable passing of courses term after term, but the gradual acquisition of a broad and deep knowledge of the chosen subjects and an intelligent appreciation of their bearing upon general knowledge and culture.

Term Work

In all subjects of the General Course, except the sciences, the ratio of term-work marks to examination marks is 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 one set on work in which a student has been conditioned (40 to 49 per cent.) This examination will be held in August 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,** page 38).

Students conditioned at the January or May examinations should attempt to remove their conditions at the supplemental examinations of the next August.

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

Students whose grade is F (less than 40 per cent.) in any course may not write a supplemental. They must repeat the course in class.

No supplemental examination will be allowed in Honour subjects except those offered as options by General Course students to complete the requirements of their courses.

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.)

An Honour Course student may not write a special examination in any academic year if he has failed in more than one Honour examination paper or has secured less than 35 per cent. on one Honour examination paper.

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

FAILURES

A student who fails at any mid-year examination in one-half of his registered credits may be dropped from the University for the second term of the year, but he may re-register for the following winter session. No credit will be given for the part of his work successfully carried in the first term unless a course has been completed.

General Course.

A student who fails 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 at the lectures in the course in which he has failed. **The student must repeat that course, if it is prescribed, the year after failure no matter what subject or subjects must be postponed.**

A student may take no course oftener than twice.

Subjects which depend directly upon the work of a preceding year may not be taken by a student who has failed in the work of the preceding year. The interpretation and application of this rule rests with the Committee on Academic Standing.

A student who, at the close of the August 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.

No work may be taken in the Senior Group until the work of a Junior Group has been completed.

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

A candidate in an Honour Course who, at the examination for the degree of Bachelor of Arts, fails to obtain the requisite average for Honours (60), may, on the recommendation of the Committee on Academic Standing, be awarded a degree in the General Course. The candidate may write a subsequent examination for the Honour degree.

Any student of the third or fourth year who shows an unsatisfactory knowledge of spoken or written English, must take English 21, or a similar course, and remove his condition. English Language

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. This rule holds for all courses numbered in the tens or the twenties or the two hundreds regardless of the year of a student's registration in the University.

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

APPEALS

The Senate has made regulations governing appeals by students. A copy of these regulations may be seen in the Registrar's office.

CONDUCT

Students are required to conduct themselves in an orderly manner in all parts of the University premises at all times.

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

The Dean may suspend any student until his case has been considered by the Administrative Council.

The name of the University may not be used in any publication without the permission of the Administrative Council. No class or group of students may engage in any public effort as a body representing the University or any organization within the University, without the permission of 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, 3 and 4 for students who present for entrance complete Pass Junior Matriculation without Greek. Credit towards a degree for this preparatory course 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 may take only three credits more than the number required for the academic year in which he is registered. Permission to take more than three extra credits may be given by the Committee on Academic Standing. For extra credits taken by permission of this Committee, an extra tuition fee of $10.00 a credit and the usual laboratory and caution fees will be charged.

THE EXTRAMURAL DEPARTMENT

An extramural course is one which a student may pursue without attending 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 Course (see page 35).

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

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 completes the work of a summer course. The examination on this complementary course must be written the next May after the summer school portion of the work; otherwise a Special Examination fee ($15.00) will be charged for a later examination, which will be set on the course outlined in the current Announcement. Credit for the summer school portion of a course cannot be held for more than two calendar years.

The number of credits for a summer school course and its complementary extramural course equals that of the corresponding intramural course.

Students may 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 at classes. Courses in the Sciences (including Psychology), in the elements of any foreign language, and honour courses not also given as pass courses, are not given extramurally. Students pursuing pure extramural courses are subject to the same regulations about 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 of July and continues thereafter for six weeks.

The subjects offered in the Summer School are taken from the courses of the winter session for General Course students. No Honour course will be offered in Summer School unless it is also part of the General Course.

A student who attends six summer sessions and obtains twenty-four credits for work taken therein satisfies the residence requirement demanded for graduation from this University. Credits obtained by attending classes conducted by the Extension Department (see below) may be included in this number.

Complete information about 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 to 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 examinations will obtain credit for the courses. (For further information write to the Director of the Extension Department).

THE M. A. DEGREE

Academic Qualifications.

A candidate must be a graduate in Arts of this or some other accredited university. A graduate in an Honour Course must have obtained at least Second Class Honours (66%) in the third and fourth years of his course. A graduate in a General Course must have obtained in the last two years at least 66% of the total marks possible and must have no more than six credits graded below 60% in those years. He must spend one year in residence raising his standing to that of an Honour graduate: sixteen credits, chosen on the advice of the Dean and the heads of the departments concerned, must be completed with an average of at least 66 per cent. This year does not satisfy the attendance requirement (mentioned below) imposed on all candidates for the degree of Master of Arts.

Graduates of accredited universities will be accepted as candidates for the degree after they have presented to the Registrar official evidence that they have obtained the degree of B.A., and that their standing in the third and fourth years of their courses corresponds to the standard described in the preceding paragraph.

Period of Study.

A graduate in an Honour Course or a graduate in a General Course who has fulfilled the requirements laid down in the first paragraph, must spend at least one year in residence study. A candidate who holds a half-time teaching or demonstrating appointment shall not be allowed to try the M.A. examinations until he has completed two years in residence. No courses taken by correspondence shall count towards an M.A. degree.

Registration and Course of Study.

Each candidate must register not later than October 12th; the Council of the Faculty of Arts will then name a committee of Professors who will supervise the work of the candidate, conduct his examinations, and report the results to the Faculty.

At least twelve credits of work must be satisfactorily completed in the M.A. course. A candidate may pursue either an extensive or an intensive course; that is, he may study in **several** departments or in **one**. The writing of a thesis shall be at the discretion of the departments concerned. If a thesis is required, from three to eight credits may be allowed for it. A candidate may offer no more than six credits for undergraduate courses approved by his committee; no more than three credits for undergraduate courses may be offered by a candidate who elects the extensive course and writes a thesis.

Examinations

A candidate must pass (with a standing of 66%) written examinations on all lecture courses and an oral comprehensive examination which shall include the field of the thesis if written. The examination shall be given during the annual May examinations. A representative from another department may be asked to be present at the oral comprehensive examination of a student who has pursued an intensive course.

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% as an Honour student, or Grade A as a General student, in each of the third and fourth years of his course. Thesis

Each candidate must submit, to the Registrar, through the committee appointed to supervise his work, an outline of his proposed thesis, not later than January 5th.

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. If the thesis is typewritten, the original and not a carbon copy must be submitted.

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

A candidate who obtained First Class Honours in each of the third and fourth years of his Honour Course and who obtains First Class Honour Standing in the examinations on his prescribed course may be granted the degree of Master of Arts with Honours. Honours

THE LL.B. DEGREE

The academic requirements for permission to register for this degree are:

(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.

The work itself consists of:

(a) Courses of reading and examinations in each of the following subjects (see page 132):

Domestic Relations.
Medical Jurisprudence.
Theory of Obligation.
Corporations.

(b) 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. If the thesis is typewritten, the original and not a carbon copy must be submitted.

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

For fees, see page 57.

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.

UNIVERSITY COLLEGE

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.

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., former Auditor of the University.]

(c) Junior Group 3.

[W. J. Roche Scholarship, in honour of the late Hon. W. J. Roche, M.D., LL.D., C.M.G., former Chancellor of the University.]

(d) Junior Group 4.

Scholarships: Seventy-five dollars in tuition or Sixty dollars in cash for each of the following:

SECOND YEAR HONOUR COURSES in the Departments of

Business Administration;
Business Administration and Secretarial Science;
Chemistry;
Chemistry and Physics;
Classics;
English and French;
French and German or Spanish;
French and Latin;
Geology;
History;
Philosophy and Psychology;
Romance Languages.

THIRD YEAR HONOUR COURSES in the Departments of:

Business Administration;
Business Administration and Secretarial Science;
Chemistry;
Chemistry and Physics;
Classics;
English and French;
French and German or Spanish;
French and Latin;
Geology;
History;
Philosophy and Psychology;
Romance Languages.

The Hon. Edward Blake Scholarship, No. 1: Seventy-five dollars in tuition or Sixty dollars in cash; for Honour Economic and Political Science, Second Year.

The Hon. Edward Blake Scholarship, No. 2: Seventy-five dollars in tuition or Sixty dollars in cash; for Honour Economic and Political Science, Third Year.

[These two Scholarships were endowed by the late Major Hume Cronyn, K.C., M.P., in memory of his uncle, the late Hon. Edward Blake, sometime Premier of Ontario and later member of the British House of Commons. These Scholarships will be awarded at the discretion of the Scholarship Committee.]

The John Gordon McIntosh Scholarship, No. 1: Seventy-five dollars in tuition or Sixty dollars in cash; for Honour Mathematics and Physics, Second Year.

The John Gordon McIntosh Scholarship, No. 2: Seventy-five dollars in tuition or Sixty dollars in cash; for Honour Physics, Third Year.

[These Scholarships were endowed by Mrs. John Gordon McIntosh, of Winnipeg, in memory of her late husband. These Scholarships will be awarded at the discretion of the Scholarship Committee.]

The Albert O. Jeffery Scholarship, No. 1: Seventy-five dollars in tuition or Sixty dollars in cash; for Honour Biology (including B.A., M.D.), Second Year.

The Albert O. Jeffery Scholarship, No. 2: Seventy-five dollars in tuition or Sixty dollars in cash; for Honour Biology, Third Year.

The Albert O. Jeffery Scholarship, No. 3: Seventy-five dollars in tuition or Sixty dollars in cash; for Honour Mathematics, Third Year.

[These three Scholarships were bequeathed to the University by Mrs. Jeffery as a memorial to her late husband, Mr. Albert O. Jeffery, K.C., D.C.L., LL.D., former President of the London Life Insurance Company.]

William Wyatt Scholarship, No. 1: Seventy-five dollars in tuition or Sixty dollars in cash; for Honour English Language and Literature, Second Year.

William Wyatt Scholarship, No. 2: Seventy-five dollars in tuition or Sixty dollars in cash; for Honour English Language and Literature, Third Year.

[The capital fund for these Scholarships was bequeathed to the University by the late William Wyatt, of London.]

I. O. D. E. Municipal Chapter Bursary: Seventy-five dollars; awarded in the autumn to the student registered in the Applied Biology option who stood highest in Third Year Honour Biology during the preceding session. The bursary may be awarded, under special circumstances, to a student registered in a course other than Applied Biology.

[This Bursary is given annually by the Municipal Chapter, Imperial Order of the Daughters of the Empire, of London.]

Khaki University and Y. M. C. A. 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: Two scholarships, one elementary ($30.00) and one advanced ($50.00); 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.

[The capital fund for these scholarships was the gift of the Women's Liberal Association.]

Rev. James MacKay Scholarship: Twenty-five dollars; General Proficiency any year; open only to theological students of the Presbyterian Church.

[Given annually by the Board of New St. James Presbyterian Church, of London, in honour of Rev. James MacKay, D.D., their pastor.]

Saunders Prize: A prize in books (the gift of the late Sir Charles E. Saunders, LL.D.) 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 Speech Education (English 19).

[The capital fund for this prize was bequeathed to the University by the late W. W. Tamblyn, Esq., of Bowmanville.]

Alumnae Association Prize: Ten dollars; Third Year Canadian History (History 31); only women are eligible for competition.

Gamma Phi Beta Alumnae Jubilee Prize: Ten dollars; Third Year Secretarial Science (Secretarial Science 37, 38, 39).

Prizes, Ten dollars each, in:

English 40 and 42 or 48;
History 40 or 45, 46;
English 30;
French 30;
History 30;
English 20;
English 21;
Latin 20 or Greek 20;
French 20 or German 20;
English 10;
Latin 10 or Greek 10;
Mathematics 10, 12;
Botany 10 or Zoology 10;
Chemistry 10 or Physics 10.

Alpha Kappa Psi Medallion: a Medallion, the gift of the Alpha Kappa Psi Fraternity, will be awarded annually to the student 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, which will be made in October after the registrations for Honour Business Administration and for Honour Economics have been completed.

La Croix Cup: French Summer School, Trois Pistoles. French Conversation, open to beginners; awarded by a local committee, not associated with the School.

Trois Pistoles Chamber of Commerce Scholarship: Twenty-five dollars toward tuition expenses of the winner for the Summer School of 1939.

URSULINE COLLEGE

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

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.

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; 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.

Full particulars can be obtained from Erskine W. Ireland, Esq., 372 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. Preliminary

applications of all University of Western Ontario candidates must be filed before Nov. 1, with the Registrar, from whom application forms may be obtained.

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 $1,400.

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. 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, 1939, to the Provincial Educational Secretary, I.O.D.E., Y.W.C.A. Building, Hamilton, Ontario, who will provide additional information about the scholarship.

Canadian Federation of University Women Scholarships

Value, $1,000 for Senior Scholarship, $700 for Junior; the scholarships of the Canadian Federation of University Women, available for study or research work, are 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 definite research work in preparation. Each 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.

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 about 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 Sir Arthur Currie Memorial Scholarships

These annual scholarships, two in number, have been endowed by a group of citizens of London and vicinity in honour and in memory of the late Sir Arthur Currie; value $100 cash per year for four years, and $125 tuition per year for four years; total value, $900 each.

The conditions and terms of the award are:

1. The scholarships will be awarded annually only to applicants who have been approved by the executive committee of the donors.

2. Applicants may be graduates of other universities providing the courses elected are not available at the universities they were attending.

3. School attendance during the preceding year is not necessary if the applicants have the required qualifications.

4. The successful candidates must have played rugby-football in secondary school, college or university.

5. Financial need of the candidates will be taken into consideration in making the award.

6. A successful candidate may hold his scholarship either in the Faculty of Medicine or in University College.

7. In order to retain the advantages of the scholarship, the holder must carry his academic and athletic program to the satisfaction of the committee from year to year.

8. The Committee of Award shall consist of the Registrar of the University (Convener), the Director of the Department of Physical Education, the Chairman of the Physical Education Committee of the Board of Governors, a representative from the Staff of the Medical Faculty, a representative from the Faculty of University College, and two representatives of the donors, seven in all, of whom four shall constitute a quorum.

9. The Committee of Award may waive any of the above conditions in favour of specific cases by unanimous vote, except rule one, dealing with approval of applicants, and rule four, dealing with athletic requirements.

III. Matriculation

Candidates for Matriculation Scholarships must write all the papers on which an award is based. No credits by "recommendation" will be considered. Each candidate must write at least six papers in order to be eligible for competition for any scholarship.

Leonard Scholarships

The income of a trust created by the late Lieut.-Col. and Mrs. R. W. Leonard, St. Catharines, Ont., will be expended in paying part of the college expenses of selected students at several institutions of Canada, including the University of Western Ontario, for from one to four years. The details of qualification and the procedure of application for these scholarships may be secured by corresponding with the trustees of the foundation, The Toronto General Trusts Corporation, Toronto, Ontario, or with 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 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 complete entrance requirements for the course he intends to pursue;

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

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

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 University College, 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 re-

ceive also $125 tuition a year for four years; total value of the scholarship $600. Application forms for this scholarship should be received by 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 Honour Matriculation examinations conducted by the Department of Education of Ontario. A scholarship, which has a value of $100.00 a year, will be paid to the successful student during his course, but not for more than four years. The student may attend any University or Catholic School of Philosophy in Ontario, or Osgoode Hall, or any other University, or Catholic School of Philosophy approved by the State Executive. If the University chosen has a Catholic college in federation or affiliation, the student must enroll through this Catholic college; the student registering in the Faculty of Arts of the University of Western Ontario must enroll in either Assumption College, Windsor, Ursuline College, or St. Peter's College, London.

Application forms for these Scholarships may be obtained from Mr. J. W. C. Tierney, the State Secretary of the Knights of Columbus, Arnprior, Ont., with whom they must be filed on or before the first day of May in the year in which the examination is to be completed. All other communications about 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 the 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 one year; total value of scholarship, $225.00.

Honour Matriculation Scholarships

I. Two 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, a science and a language.

The winners will receive free tuition for four years in University College of Arts; total value of each scholarship, $600.00.

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 or Greek, and Mathematics (Algebra and Geometry);
(c) English, French and German or Spanish or Greek;
(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;

The winners of these scholarships will receive free tuition for two years in University College of Arts; total value of each scholarship, $300.00.

III. Scholarships of free tuition for two years for competition in each Collegiate Institute, Vocational School and High School whether Commercial, Agricultural or Academic, 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 First Class Honours (75 per cent.) in nine papers of the Upper School examination written in June of the year of the award, and chosen from the following subjects: English, German, Greek, French, History, Latin, Mathematics, Spanish, Botany, Zoology, Physics, Chemistry. Total value of each scholarship, $250.

IV. Scholarships of free tuition (up to $125.00) for one year for proficiency in single subjects of the Upper School:

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

All the above matriculation scholarships will be awarded on the examinations of 1939. No scholarship will be awarded to a candidate unless he obtains an average of First Class Honours (75 per cent.) on all papers involved in the award. The successful candidates must register for a full year's work in University College or in the Medical School or in the Faculty of Public Health, University of Western Ontario, beginning the academic session 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 women 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 Announcement 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.

EXCHANGE OF UNDERGRADUATE STUDENTS

The National Federation of Canadian University Students has put into operation a plan for exchange of undergraduate students among any two of the four following divisions of Canada:

I. University of British Columbia;
II. Universities of Alberta, Saskatchewan, Manitoba;
III. Universities of Ontario and Quebec;
IV. Universities of the Maritime Provinces.

Any bona fide student may apply for exchange to some division other than the one in which he is currently working, for the third or higher year, but he undertakes to return to his home university the following year to complete the work for his degree. Exchange in the faculties of Medicine and Dentistry is not available. The successful candidate for exchange privilege will be permitted to take a full year's work at the desired university without paying tuition or student council fees. Applications must be filed before March 1st each year. Exchanges may not be possible in 1940-41.

For further details consult the Registrar.

PUBLIC SCHOOL INSPECTORS' CERTIFICATES

By agreement with the Minister of Education the work described below satisfies the academic requirements 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 56); or

(2) A 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 winter sessions approved by the University, or (b) for at least one complete winter 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. His work must be supervised as prescribed in the agreement between the Department of Education and the University.

For the professional requirements candidates should consult the Department of Education, Toronto, Ont.

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, an Honour degree in Arts (60 per cent.) is the academic standing for admission to the qualifying examinations leading to High School Specialist Certificates in Classics, Commerce, English (in 1940 and thereafter), English and French, English and German or Spanish, French and German or Spanish, English and History, History (in 1940 and thereafter), Latin and French, Mathematics and Physics, Science.

Each candidate for a Specialist's Certificate must also obtain Honour standing (at least 75%) at the qualifying examination held annually in November at the Ontario College of Education. This examination is based on the High School courses prescribed for the current year in the subjects represented in the Specialist course to which the candidate seeks admission.

For the University of Western Ontario, the courses in the departments specified above shall be the Honour Courses as defined in the Announcement of the Faculty of Arts for 1939-1940.

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

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.

The Minister shall have authority to deal with any case not already covered. The 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 they are paid in two instalments, the first will be payable Registration Day, the second on or before the first day of the second term. All other fees, except examination and degree fees, are payable Registration Day. Students must register and pay the fees for examinations 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 Bursar:

First Registration (for all students on entering)	$ 5 00
Annual Registration (intramural students)	25 00
*Tuition, including examinations, one payment a year	125 00
Two payments a year, each $65.00	130 00
Tuition, special student, each credit, including examination	10 00
Tuition, Intensive Course in Business	200 00
Tuition, Extension and Extramural, each credit, including examination when written at University College	10 00
Tuition, Summer School, each credit, including examination	9 00
Examinations, Supplemental, each paper, August or May	5 00
Maximum	15 00
Examinations, LL.B. Course, each paper	20 00
Examinations, at dates other than January, May or August	15 00
Presiding Examiner's fee, etc. (at outside centre), each half-day	3 00
Library Deposit (extramural students outside London)	5 00
Change of Faculty	5 00
Change of Registration, after one week from Registration Day, $1.00 to	5 00
Late Registration (see also page 7) $2.00 to	3 00
Undergraduate Certificate of Standing	3 00
Graduate detailed certificate (after the first two), each	2 00
Athletic Association, each year	10 00
Students' Administrative Assembly Fee, including Concert series, each year	6 00
Students' Health Insurance, each year	7 50
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, each	4 00
Laboratory Fee, Secretarial Science, last three years, each	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., payable May 1st	10 00
Degree of M.A. (2), 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
Diploma in Home Economics	5 00
Diploma, Intensive Business Course, payable May 1st	10 00

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

* For non-Canadian students tuition fees are double these figures.

STUDENT EXPENSES

A statement of annual expenses can at best be approximate; purely personal items (*e.g.*, laundry, clothes) are not included in the summary below and in other items individual tastes may vary. The following is a suggestion only:

First Registration (paid once only)	$ 5 00			
Annual Registration	25 00			
Tuition	125 00	or	$130 00	
Laboratory and Caution Fees	6 00	to	60 00	
Athletic Association	10 00			
Student Assembly	6 00			
Health Insurance	7 50			
Caution Fee	5 00			
Board (30 weeks)	180 00	to	300 00	
Books and Supplies	50 00	to	75 00	
	$419 50	to	$625 50	

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 Faculty of Arts, will register in one of the following courses:

I. GENERAL COURSE: leading through one of four Junior Groups to either a General or an Honour degree. On completion of any one of the Junior Groups a student may finish his course for a General degree in two years (Senior Group) or, if eligible, may enter an Honour course and finish in three years (see pages 65-82).

II. SECRETARIAL SCIENCE COURSE (see page 61).

III. THEOLOGICAL COURSE (see page 62).

IV. NURSES' COURSE: leading to the degree of Bachelor of Science. (see page 63).

V. HOME ECONOMICS COURSES: leading to a diploma or to the degree of B.A. (see page 64).

For Honour Philosophy in Assumption and Ursuline Colleges, see pages 77-80.

I. GENERAL COURSE

Requirements for Admission: Complete Pass Junior Matriculation.

In each Junior Group credit will be allowed for certificates in Upper School English (10, 11), Mathematics (10, 12, 18), Latin (10), Greek (10), French (10), German (10), Spanish (10). Certificates of at least third class honours in each of Botany and Zoology will cancel Biological Science 11, and of at least third class honours in each of Physics and Chemistry will cancel Physical Science 11.

These Junior Groups are complete in themselves and no work in advance 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 the academic qualification for an ordinary High School Assistant's Certificate.

JUNIOR GROUP 1

This group is a prerequisite for all the Honour Science courses and for Honour Mathematics and Physics.

Subject	*Credits*
English 10, 11, 19, 20, 21 (pp. 115, 116)	7
French 10 or German 10 (p. 160, p. 122)	3
Library Science 10a (p. 133)	½
Mathematics 10, 12, 18, 20, 22, 24, (pp. 134, 135)	8
Botany 10 (p. 85)	3
Chemistry 10 (p. 97)	3
Physics 10 (p. 153)	3
Zoology 10 (p. 89)	3
Physical Education 10 or 11 (pp. 150, 151)	1

JUNIOR GROUP 2

The Honour Courses for which Junior Group 2 is a prerequisite are Business Administration, Business Administration and Secretarial Science, Economic and Political Science, Philosophy and Psychology, and Social Science. The students who are interested in Social Science should elect Biological Science 11 and History 25 (instead of Business 20).

Subject	*Credits*
English 10, 11, 19, 20, 21 (pp. 115, 116)	7
Library Science 10a (p. 133)	½
Mathematics 10, 12 (p. 134)	3
Physical Education 10 or 11 (pp. 150, 151)	1
Business 20 (p. 92)	2
Economics 20 (p. 108)	3
Psychology 20 (p. 143)	3
Biological or Physical Science 11 (pp. 83, 153)	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

This Group is a prerequisite for Honour English Language and Literature and for Honour History.

Subject	*Credits*
English 10, 11, 19, 20, 21 (pp. 115, 116)	7
Library Science 10a (p. 133)	½
Mathematics 10, 12 (p. 134)	3
Physical Education 10 or 11 (pp. 150, 151)	1
History 25 (p. 126)	2
Biological or Physical Science 11 (pp. 83, 153)	3
Two of *German 1, *Greek 1, French 10, German 10, Greek 10, Latin 10, Hebrew 10, Spanish 10	6 or 7
Two of *German 10, *Greek 10, French 20, German 20, Latin 20, Greek 20, Hebrew 20, Spanish 20, 21	6 to 8

JUNIOR GROUP 4

This Group is a prerequisite for all the Honour Language courses, including English and French.

Subject	*Credits*
English 10, 11, 19, 20 21 (pp. 115, 116)	7
Library Science 10a (p. 133)	½
Mathematics 10, 12 (p. 134)	3
Physical Education 10 or 11 (pp. 150, 151)	1
Biological or Physical Science 11 (pp. 83, 153)	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, Hebrew 20, Spanish 20, 21	6 to 8

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

SENIOR GROUP

This Group is open to any student who has completed Junior Group 1, 2, 3 or 4. 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 counted cannot be given credit in the Senior Group: **an equal number of credits must be substituted for them.** See also page 36.

Subject	*Credits*
Psychology 20 (if previously taken, substitute Phil. 30)	3 or 2
Economics 30a and either 30b or 42b	3
Biological or Physical Science 11 (the one 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

At least six credits from:

Economics 20, 28b, 32a, 32b, 33, 38a, 39a, 39b, 42a, 46, 48a, 49b.
Religious Knowledge, 20x, 21x, 30x, 31x, 39x, 40x, 41x, 47x, 48x.
Philosophy 30, 30x, 31a, 31bx, 32ax, 33b, 33x, 37, 37x, 42, 43b, 47, 47x.
Psychology 20, 35, 35x, 36, 36x, 37a, 38a, 38b, 39, 43, 44, 46a, 46b, 48a, 48b, 49b.

At least six credits from one of the following combinations:

(a) Latin 20, 30, 39, 40; Greek 10, 20, 30, 39, 40;
French 20, 30, 39, 40, 381 and 491 (see page 160),
German 20, 30, 31, 39, 40, 41;
Spanish 20, 21; 30, 31; 40, 41; Italian 20, 30;
Hebrew 10, 20, 30, 40.

(b) Applied Biology 21, 30, 40; Nature Study;
Botany 22b, 25a, 31a, 36b, 43; Chemistry 22, 33, 44;
Geology 20, 31, 47; Geography 35,45;
Physics 20, 30;
Zoology 21, 32, 33, 44, 46.

(c) Mathematics 18, 20, 22, 23, 24, 29; Physics and Chemistry from (b).

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

II. SECRETARIAL SCIENCE COURSE

Requirements for Admission: Complete Pass Junior Matriculation.

First Year

Subject	*Credits*
English 10, 11, 19 (p. 115)	4
Latin 10 (p. 101)	3
Library Science 10a (p. 133)	½
Mathematics 10, 12, 18b (p. 134) (any two)	3
Physical Education 10 (p. 150)	1
Biological Science 11 (p. 83)	3
One of:	
French 10 (p. 160)	3
German 1 or 10 (p. 122)	3
Spanish 10_A (p. 163)	3

Second Year

Not more than fifteen registrations are accepted for this year; students must have passed the above first year without any conditions, or must present certificates of standing in Upper School English, French or German and any two of Biology, Latin, Mathematics (Algebra and Geometry). Honour Matriculants must make up all deficiencies of the first year before beginning any work of the third year.

Subject	*Credits*
Business Administration 20, 25	3
Economic and Political Science 20	3
English 20, 21	3
Physical Education 20	1
Secretarial Science 28, 29	6
One of:	
French 20	4
German 10 or 20	3 or 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 (Commercial)	3
German 20 or 30, 31	4 or 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 (Commercial)	3
German 30, 31 or 40, 41	3
Spanish 40, 41	3

III. THEOLOGICAL COURSE

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.

First Year

Subject	*Credits*
English 10, 11 (p. 115)	3
English 19 or Homiletics 19x (p. 115) (p. 167)	1
Greek 1x (p. 104)	4
Apologetics 30x (p. 165)	2
Biblical Literature 10x (p. 166)	1
Church History 30x (p. 166)	2
Latin 10 (p. 101)	3
Library Science 10a (p. 133)	½
Physical Education 10 or 11 (pp. 150, 151)	1

Second Year

Hebrew 10	3
Biblical Literature 21x	1
English 20, 21	3
History 25	2
Homiletics 29x	1
Greek 25x	3
Psychology 20	3
Physical Education 20 or 21	1

Third Year

Biblical Literature 30x, 31x	2
Economic and Political Science 31x	3
English 30	3
Greek 35x	3
History 31	2
Hebrew 20	3
Psychology 39	2

Fourth Year

Biblical Literature 40x, 41x	2
Church History 40x or 41x	2
Economic and Political Science 48x	1½
English 40	2
History 43a, 46b	3
Philosophy 31a	1
Philosophy 33b	1
Psychology 48, 49b	3
At least two credits from English 48, Greek 45x, Hebrew 30	2

IV. COURSE FOR NURSES

Leading to the Degree of Bachelor of Science

Requirements for Admission: Complete Pass Junior Matriculation.

No more than fifteen registrations are accepted in the first year of this course. Each applicant for admission must submit a certificate of acceptance for this course from the Chief of Division of Study for Graduate Nurses at the Institute of Public Health and from the Superintendent of the Training School for Nurses in the Hospital where she plans to take her training.

The length of this course is five calendar years. 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 courses shall be taken:

First Year

Subject	*Credits*
Botany 11aN (p. 85)	1½
Chemistry 11N (p. 97)	3
English 10, 11, 19 (p. 115)	4
French 10 or German 10 (pp. 160, 122)	3
Library Science 10a (p. 133)	½
Mathematics 10, 12, 18 (any two) (p. 134)	3
Physical Education 10 (p. 150)	1
Zoology 11bN (p. 89)	1½

Second Year, First Term Only (September to January)

Chemistry 22aN	1½
English 20a, 21a	1½
Language of First Year continued	2
Psychology 20aN	1½
Physical Education 20a	½
Zoology 21aN	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 a 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 of the University of Western Ontario. The student may choose the Public Health Nursing, or the Instructor in Nursing, or the Hospital Administration option.

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

V. HOME ECONOMICS

Requirements for Admission: Complete Pass Junior Matriculation.

(a) This two-year course leading to a **diploma in Home Economics** is offered by Ursuline College and Alma College (St. Thomas).

First Year

Subject	*Credits*
English 10, 11, 19 (p. 155)	4
Religious Knowledge or Psychology (pp. 157, 143)	2
Chemistry 11N (p. 97)	3
Physical Education 10 (p. 150)	1
Clothing I (p. 131)	2½
Foods and Nutrition I (p. 131)	2½
Music, or Art, or Applied Art, or Modern Language (10)	3

Second Year

English 20, 21	3
Economics or Religious Knowledge	1
Physical Education 20	1
Physiology and Home Nursing	1½
Household Administration and Interior Decoration	1½
Clothing II	2½
Foods and Nutrition II	2
Chemistry of Foods and Bacteriology or Chemistry 22N	3
Music, or Art, or Applied Art, or Modern Language (20)	4

For details see the pamphlets of the colleges offering this course.

(b) This four-year course leading to a **Bachelor of Arts Degree in Home Economics** is offered by Ursuline College, London, Ontario. University College students in the course will take their Home Economics classes at Ursuline College.

First Year

Subject	*Credits*
Botany 11aN (p. 85)	1½
English 10, 11, 19 (p. 115)	4
Library Science 10a (p. 133)	½
Chemistry 11N (p. 97)	3
French 10 or German 10 or Spanish 10 (pp. 160, 122, 163)	3
Mathematics 10a, 12b, 18 (any two) (p. 134)	3
Physical Education 10 (p. 150)	1
Zoology 11bN (p. 89)	1½

Second Year

English 20, 21	3
French 20 or German 20 or Spanish 20, 21	3 or 4
Chemistry 22aN, 23b	3
Zoology 21aN	1½
Psychology 20	3
Physical Education 20	1
Religious Knowledge 20x	2
Home Economics 25ax	1
Home Economics 26bx	1

Third Year

Botany 36b	1½
Chemistry 36a	1½
Economics 30a, 42b	3
English 30	3
Religious Knowledge 30x	2
Philosophy 33x	2
Home Economics 30x	2½
Home Economics 32x	2½

Fourth Year

English 40, 42 (or 48)	3 or 4
Economics 28x	3
History 31	2
Home Economics 40x	2½
Home Economics 42x	2½
Home Economics 43x	1
Home Economics 44bx	1
Religious Knowledge 40x	2

HONOUR COURSES

I. Biological Science

Requirements for Admission: Group 1, page 59, 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 56.

Second Year

Subject	*Credits*
French 1 or German 5 (language not previously taken)	3
Physical Education 20 or 21	1
Botany 250	2½
Chemistry 200	4
Geology 257	5
Physics 204, 205	3
Zoology 250	2½

Third Year

Economics 20 or Psychology 20	3
French 10 or German 35 (language of the second year)	3 or 2
Botany 360a, 360b	5
Chemistry 303	4
Zoology 350a, 354b, 357	7

Fourth Year

All students are required to register in the general option (a) below, except those who apply at the close of the third year and receive the consent of the Committee on Biological Science to select one of the special courses.

(a) GENERAL

Subject	*Credits*
French 45, German 45	1
Applied Biology 451b, 453a	5
Botany 452b, 461a	5
Zoology 450b, 452a	5

(b) APPLIED BIOLOGY

French 45, German 45	1
Botany 461, 466	5
Applied Biology 450a	2½
Applied Biology 450b	2½
Applied Biology 451b	2½
Applied Biology 453a	2½
Zoology 450b	2½

(c) BOTANY

French 45, German 45	1
Botany 452b	2½
Botany 453	2½
Botany 454	2½
Botany 461	2½
Botany 466	2½
Botany 474	2½
Zoology 450b	2½

(d) ZOOLOGY

French 45, German 45	1
Botany (one option)	2½
Zoology 450b	2½
Zoology 451	2½
Zoology 452a	2½
Zoology 454	2½
Zoology 456	2½
Applied Biology 453a	2½

II. Business Administration

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

This course is open to men only.

Credit is given by the Institute of Chartered Accountants for work done in this course.

Not more than 9 credits of work may be taken in any one year under one instructor.

Second Year

Subject	*Credits*
English 31	1
Physical Education 21	1
French 20 or 30 (Com.) or German 20, or 30, 31	4 or 3
Business 250	3
Business 251	3
Business 255	3
Economics 233	3
One of:	
Economics 257a, 257b	2
Business 36	2

Third Year

Business 350	3
Business 351	3
Business 353	3
Business 354	3
Business 356b	1½
Economics 346	3
Three credits from:	
English 30 or 34	3
French 30 or 40 (Commercial)	3
German 30, 31 or 40, 41	3
Philosophy 30, 31	3
Spanish 20, 21 or 30, 31	3
Economics 42a, 42b (Municipal Affairs)	3
Economics 251b	1
History 31 or 44	2
Second year option not chosen	2

Fourth Year

Business 458	3
Business 459	3
Eleven credits from:	
Business 450	3
Business 451	2
Business 454	3
Business 460	3
Business 461	3
Business 470	2
Business 471	3

INTENSIVE COURSE

Requirements for Admission: *Graduation from a recognized college or engineering school, including The 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
English 31a	½

Second Term

Business 5x1b	1½
Business 5x4b	1½
Business 5x8b	1½
Business 5x9b	3
English 31b	½

III. Business Administration and Secretarial Science

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

This course may be elected by 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 page 56.

Second Year

Subject	*Credits*
English 31	1
Physical Education 20 or 21	1
Business 36	2
Business 250	3
Business 251	3
Economics 257a, 257b, 259a	3½
Secretarial Science 28, 29	6

Third Year

History 31	2
Business 25	1
Business 350	3
Economics 233	3
English 30 or 34	3
Secretarial Science 37 (theory only)	1
Secretarial Science 38, 39	6

Fourth Year

Business 306a, 356b	3
Business 450a, 460a	3
Economics 46 or English 40, 42 (or 48)	3
Library Science 31b	2
Secretarial Science 47 (theory and practice)	7

Students not desiring to qualify for the Commercial Specialist certificate of the Department of Education of Ontario may substitute for Business 450a, 460a, either Business 461 or Business 471.

IV. Chemistry

Requirements for Admission: Group 1, page 59, 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 56.

Second Year

Subject	*Credits*
French 1 or German 5 (language not previously taken)	3
Physical Education 20 or 21	1
Botany 250a	2½
Chemistry 250	6
Chemistry 252b	2½
Chemistry 257a	½
Geology 251	3
Zoology 250b	2½

Third Year

French 10 or German 35 (language of the Second Year)	3 or 2
Chemistry 303	4
Chemistry 354	5
Physics 254, 255	5
One non-science optional course	2 or 3

Fourth Year

French 45, German 45	1
Chemistry 451a	2
Chemistry 452a	2
Chemistry 453	3½
Chemistry 454	4
Chemistry 455b	2
Chemistry 458 and Comprehensive Examination	3
Chemistry 459b and 456b	3

V(a). Chemistry and Geology

Requirements for Admission: As for Honour Geology (p. 74.)

Second Year

Subject	*Credits*
French 1 or German 5	3
Physical Education 20 or 21	1
Geology 251, 257	8
Chemistry 250a, 252b	5½

Third Year

French 10 or German 35 (language of the second year)	3 or 2
Geology 351, 354	6
Physics 205b	1½
Chemistry 303 or 354	4 or 5
Geology 356	2½

Fourth Year

Subject	*Credits*
Franch 45, German 45	1
Non-Science elective	3
Geology 452	3½
Geology 453a	1
Geology 458	1
Chemistry 452a	2
Chemistry 458	1
Chemistry 459b or Geology 455	3

V(b). Chemistry and Physics

Requirements for Admission: Group 1, page 59, with an average of at least 60% in all the Sciences and 60% in Mathematics, in Chemistry and in Physics.

Second Year

Subject	*Credits*
French 1 or German 5 (language not previously taken)	3
Physical Education 20 or 21	1
Chemistry 250 (4), 252b, 257a	7
Mathematics 254a, 264b	3
Physics 251, 254, 255	6

Third Year

French 10 or German 35 (language of the Second Year)	3 or 2
Mathematics 354a, 364b	2
Chemistry 303	4
Chemistry 354	5
Physics 352	3
Physics 364	4

Fourth Year

French 45, German 45	1
Chemistry 452a	2
*Chemistry 453 or 454	3½ or 4
Chemistry 458	1
Physics 455	2
*Physics 453 or 456	2
Physics 458	1
Either Chemistry 459b or Physics 459	3

VI. Classics

Requirements for Admission: Group 4, page 60, with an average of 60% in Latin 10 and 20 and 60% in Greek 10 and 20.

This course satisfies the academic requirements for the Classics Specialist Certificate of the Department of Education of Ontario. For conditions see page 56.

Second Year

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

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

Third Year

Subject	*Credits*
English 30 or 330	3
Greek 340, 350, 351, 352, 353	7
Latin 340, 350, 351, 352	6

Fourth Year

English 40 or 440	2
Greek 450, 451, 452, 453	8
Latin 450, 451, 452, 453	7

VII. Economic and Political Science

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

Second Year

Subject	*Credits*
Biological or Physical Science II (one not previously taken) or Mathematics 20b and 22a	3 or 2
Business 200	2
English 31	1
Physical Education 20 or 21	1
Economics 228, 232a, 233, 251b, 257a, 257b, 259a	10½

Third Year

History 31, 43a, 44 (any two)	3½ or 4
Economics 300, 332b, 342b, 346, 355a	8½

See Note below.

Fourth Year

History 45a, 46b	3
Economics 450a, 452a, 458, 460, 462	7

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. The numbers indicate the sequence of the options but the requirement is not rigid.

Economics 338	1½
Economics 339a, 339b	2
Economics 342a	1½
Economics 348	1
Economics 350a	1½
Economics 351b	1½
Economics 352b	1½
Economics 353	1
Economics 354	1
Economics 363b	1
Economics 449	1½
Economics 453b	1½
Economics 478	1½
Economics 490b	1½
Business 36	2
Business 450	1½
English 30 or 34	3
Geography 35	3

Subject	*Credits*
History 25 or 31 or 44 (one not previously taken)	2
Mathematics 20b, 22a, 24 (if not previously taken)	4
Municipal Accounting (Business 470)	2
Philosophy 30	2
Psychology 46b, 48, 49b	4
Three credits from:	
French 30, 40	3
German 30, 31, 40, 41	3

VIII. English Language and Literature

Requirements for Admission: Group 3, page 60, with an average of 60% in English and an average of 60% in the two languages taken.

This course is accepted by the Department of Education of Ontario as academic qualification for the Specialist Certificate in English. See page 56.

Second Year

Subject	*Credits*
History 30	3
Physical Education 20 or 21	1
English 200, 210, 250, 251	6
Two of French 270	3
German 290	3
Latin 230, 250	3
Greek 230, 250	3

Third Year

History 40	3
English 330, 352, 353, 362	6
One of French 380	3
German 390	3
Latin 340, 352	3
Greek 340, 352	3
One of Philosophy 30	2
Psychology 20	3
Economics 30a, 42b,	3
A second language from the above	3
Two of (the languages not chosen in the second year):	
French 39	1
German 39	1
Latin 39	1
Greek 39	1

Fourth Year

History 43 or 44	1½ or 2
English 440, 448, 450, 453, 454, 456	10
One of French 490	3
German 480	3
Latin 450, 452	4
Greek 452	3

IX. English and French

Requirements for Admission: Group 4, page 60, with an average of at least 60% in English and in French.

This course is accepted by the Department of Education of Ontario as academic qualification for the Specialist Certificate in English and French. For conditions, see page 56.

Second Year

Subject	*Credits*
History 30	3
Physical Education 20 or 21	1
English 200, 210, 250, 251	6
French 270, 271	4
One of:	
German 290, 291	4
Latin 230, 250, 251	5
Spanish 220, 221, 260	4

Third Year

History 40	3
English 330, 352, 353, 362	6
French 380, 381	6
Greek 39 and either Latin 39 or German 39	2

Fourth Year

English 440, 448, 450, 453, 454, 456	10
French 460, 467, 490, 491	7

X. French and German (or Spanish)

Requirements for Admission: Group 4, page 60, with 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 56.

Second Year

Subject	*Credits*
English 30	3
Greek 39	1
History 30	3
Physical Education 20 or 21	1
French 270, 271	4
German 290, 291	4
or	
Spanish 220, 221, 260	4

Third Year

English 353	1
History 40	3
Philosophy 47	2
French 380, 381	6
German 390, 391, 393	6
or	
Spanish 330, 331, 360	5

Fourth Year

Subject	*Credits*
English 40, 42	3
French 460, 467, 490, 491	7
German 460, 480, 481	7
or	
Spanish 440, 441, 450, 453	6

XI. French and Latin

Requirements for Admission: Group 4, page 60. with 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 56. In this course three years, or the equivalent, of Greek or German must be taken in the University.

Second Year

Subject	*Credits*
German 10 or 20	3 or 4
or	
Greek 10 or 20	3 or 4
History 30	3
Physical Education 20 or 21	1
French 270, 271	4
Latin 207, 230, 250, 251	7

Third Year

German 20 or 30, 31	4 or 3
or	
Greek 20 or 30	4 or 3
History 40	3
French 380, 381	6
Latin 340, 350, 351, 352	6

Fourth Year

German 39 or Greek 39	1
German 30, 31 or Greek 30	3
French 460, 467, 490, 491	7
Latin 424, 450, 451, 452	7½

XII. Geology

Requirements for Admission: Group 1, page 59, 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 59.

Second Year

Subject	*Credits*
French 1 or German 5 (language not previously taken)	3
Physical Education 20 or 21	1
Botany 250a	2½
Geology 251, 257	8
Physics 204, 205	3
Zoology 250b	2½

Third Year

Subject	*Credits*
French 10 or German 35 (language of the Second Year)	3 or 2
Geology 351, 354	6
Chemistry 200	4
Zoology 350a, 450b or Geology 356 and Chemistry 252b (Second Term)	5

Fourth Year

French 45, German 45	1
Economics 20	3
Geology 452, 453, 455, 457, 458	10½
Zoology 357	2

XIII. History

Requirements for Admission: Junior Group 3, page 60, with 60% in History and an average of 60% in English and in the two languages chosen.

This course will satisfy the academic requirements for the qualifying examination for the History Specialist Certificate of the Department of Education only if the options marked with an asterisk have been taken.

Second Year

Subject	*Credits*
History 257	3
History 230	3
Economics 20	3
Philosophy 30 (or *Business Administration 20)	2
Physical Education 20 or 21	1
Any two of: French 30 (authors only), German 30, Latin 30 (authors only), Greek 30 (authors only), Spanish 30, *Geology 20	4 or 5

Third Year

Options of both the third and fourth years must be chosen from the same department, that is, from Economics or English or foreign languages.

History 340	3
History 344	2
History 351	2
Economics 257	2
Economics 259a	1½
Psychology 20 (or *Geography 35)	3
One of:	
*Economics 232a, 233, 332b	6
English 30 (or 34), 251	4
Foreign Language: two of Latin, Greek, French, German, Italian, Spanish, to be arranged	4

Fourth Year

History 443a	1½
History 452	2
History 453b	1½
History 455	3
Economics 450	1½
Economics 452	1½
One of:	
Economics 346, 453	4½
English 453 (or 454), 448 (or 210)	3
Foreign Language: two of Latin, Greek, French, German, Italian, Spanish, to be arranged	4
*Geography 45a, 45b	3

XIV. Mathematics (Including Actuarial Science) and Physics

Requirements for Admission: Group 1, page 59, with an average of at least 60% in Mathematics and 60% in Physics.

Second Year

Subject	*Credits*
French 1 or German 5 (language not previously taken)	3
Mathematics 250, 252, 254, 260, 261, 262, 264	9
Physics 250, 251, 254, 255	8
Physical Education 20 or 21	1

Mathematics Option

This course satisfies the academic requirements for the Mathematics and Physics Specialist Certificate of the Department of Education of Ontario. For conditions, see page 56.

Third Year

Subject	*Credits*
Economics 300	2
French 10 or German 35 (language of Second Year)	3 or 2
Mathematics 353a, 354a, 355b, 364b	4
Physics 360a, 360b	3½
One of Groups I and II below	4 or 5

Fourth Year

French 45, German 45	1
History 45a, 46b	3
Mathematics 453a, 456, 457, 463a, 466b	6½
Physics 451b, 456	3
One of the Groups I and II below	4 or 5

The following two groups are given in alternate years, Group I in 1939-40.

Group I

Mathematics 351a*	1
Mathematics 358b	1
Mathematics 359a, 359b*	2
Mathematics 362b	1

Group II

Mathematics 450a*	1
Mathematics 452a	1
Mathematics 462b*	1
Mathematics 464b	1

*See Actuarial Science Option.

Actuarial Science Option

This option is intended for students who wish to become actuaries. It differs from the Honour Course in Mathematics and Physics only in the substitution of a course in accounting for two credits of mathematics in the third year, and of the addition of two courses in actuarial science in the place of two credits of mathematics in the fourth year. This course will prepare students for four of the six examinations required for Associateship in the Actuarial Society of America and in the American Institute of Actuaries. The first two of these may be taken any year but preferably not before the second; the third and the fourth 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 option 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.

Third Year

Same as Third Year in Mathematics and Physics, except that Business 200 replaces Mathematics 351a and 359b or Mathematics 450a and 462b.

Fourth Year

Same as Fourth Year in Mathematics and Physics, except that Mathematics 455a and 473b replace Mathematics 351a and 359b or Mathematics 450a and 462b.

PHYSICS OPTION

This course satisfies the academic requirements for the qualifying examination for the Mathematics and Physics Specialist Certificate of the Department of Education of Ontario. See page 56.

Subject	**Third Year**	*Credits*
French 10 or German 35 (language of the Second Year)		3 or 2
Mathematics 354a, 364b		2
Physics 350		3
Physics 352		3
Physics 354		5
Physics 355		1
	Fourth Year	
French 45, German 45		1
English 30 or 34		3
Mathematics 456, 466b		3
Physics 451		1
Physics 453		2
Physics 455		2
Physics 456		2
Physics 458		1
Physics 459		3

XV(a). Philosophy and Psychology

Requirements for Admission: Complete Pass Junior Matriculation.

This course is open only to students of Assumption College.

Subject	**First Year**	*Credits*
English 10, 11, 19 (p. 115)		4
Latin 10 (p. 101)		3
Library Science 10a (p. 133)		½
Mathematics 10, 12, 18 (p. 134) (any two)		3
Physical Education 11 (p. 151)		1
Religious Knowledge 11x (p. 157)		2
At least three credits from the following:		
French 10 (p. 160)		3
German 1 or 10 (p. 122)		3
Greek 1 or 10 (p. 104)		3
Spanish 10 (p. 163)		3
Italian 20 (p. 162)		3
Botany 10 (p. 85)		3
Chemistry 10 (p. 97)		3
Physics 10 (p. 153)		3
Zoology 10 (p. 89)		3

Second Year

Subject	*Credits*
English 20, 21	3
Latin 20 or 25x	4 or 3
Physical Education 21	1
Religious Knowledge 21x	2
Philosophy 250x	3
Philosophy 251x	2
Philosophy 252x	2
Philosophy 257x	3
One of:	
Economics 20	3
French 20	4
German 20	4
Greek 20	4
History 257	3
Italian 30	3
Mathematics 18, 20	2
Spanish 20, 21	3
Option of First Year not previously taken	3

Third Year

English 30	3
Philosophy 351x	3
Philosophy 352x	3
Philosophy 353x	3
Philosophy 357x	3
One of:	
French 30	3
German 30, 31	3
Greek 30	3
History 30	3
Latin 30 or 35x	3
Mathematics 22, 24	3
Religious Knowledge 30x, 31x	3
Option of Second Year not previously taken	3 or 4

Fourth Year

English 40, 42 (or 48)	3 or 4
Philosophy 450x	3
Philosophy 452x	3
Philosophy 453x	2
Philosophy 457x	3
One of:	
French 40	3
German 40, 41	3
Greek 40	3
History 40	3
Latin 40 or 45x	3
Religious Knowledge 40x, 41x	3
Option of Third Year not previously taken	3

XV(b). Philosophy and Psychology

Requirements for Admission: Complete Pass Junior Matriculation.

This course is open only to students of St. Peter's Seminary College of Arts.

First Year

Subject	*Credits*
English 10, 11, 19 (p. 115)	4
Latin 10 (p. 101)	3
Library Science 10a (p. 133)	½
Mathematics 10, 12, 18 (p. 134) (any two)	3
Physical Education 11 (p. 151)	1
Religious Knowledge 101x (p. 158)	1
At least three credits from the following:	
French 10 (p. 160)	3
German 1 or 10 (p. 122)	3
Greek 1 or 10 (p. 104)	3
Spanish 10 (p. 163)	3
Italian 20 (p. 162)	3
Botany 10 (p. 85)	3
Chemistry 10 (p. 97)	3
Physics 10 (p. 153)	3
Zoology 10 (p. 89)	3

Second Year

English 20, 21	3
Latin 20 or 25x	4 or 3
Physical Education 21	1
Religious Knowledge 201x	1
Philosophy 250x	3
Philosophy 251x	2
Philosophy 257x	2
One of:	
Economics 20	3
French 20	4
German 20	4
Greek 20	4
History 257	3
Italian 30	3
Mathematics 18, 20	2
Spanish 20, 21	3

Option of First Year not previously taken.

Third Year

English 30	3
Philosophy 351x	5
Philosophy 352x	3
Philosophy 357x	3
One of:	
French 30	3
German 30, 31	3
Greek 30	3
History 30	3
Latin 30 or 35x	3
Mathematics 22, 24	3
Religious Knowledge 300x, 301x	3

Option of Second Year not previously taken.

Fourth Year

Subject	*Credits*
English 40, 42 (or 48)	3 or 4
Philosophy 450x	5
Philosophy 452x	3
Philosophy 457x	3
One of:	
French 40	3
German 40, 41	3
Greek 40	3
History 40	3
Latin 40 or 45x	3
Religious Knowledge 400x, 401x	3

Option of Third Year not previously taken.

XV(c). Philosophy and Psychology

Requirements for Admission: Group 2, page 60, with at least 60% in Economics and 60% in Psychology.

This course is offered in University College only.

Second Year

Subject	*Credits*
Biological or Physical Science 11 (one not previously taken)	3
English 30 or 34 or History 257	3
Physical Education 20 or 21	1
Philosophy 230, 231a, 250b	4
Psychology 235	3
At least three credits from:	
French 20, 30	3 or 4
German 10, 20, 30, 31, 35	2 or 3 or 4
Greek 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 outlined below.

PHILOSOPHY OPTION

Third Year

Subject	*Credits*
History 45a, 46b	3
Philosophy 337, 343b, 347	5
Psychology 336, 343a	3
At least three credits from:	
Economic and Political Science 28b, 30a, 32b, 38a, 46	3
At least three credits from:	
English 30 or 34	3
French 20 or 30	4 or 3
French 45 and German 45	1
German 10 or 20 or 30, 31 or 35	2 or 3 or 4
Greek 20 (or 35) or 30 (or 45)	3 or 4

Fourth Year

Subject	*Credits*
Economic and Political Science 352b	1½
Philosophy 442, 450, 452, 458	7
At least six credits from:	
Philosophy 451, 453 / Psychology 444, 446, 448, 449b	6
At least two credits from:	
English 30 or 34 or 40 or 48	3 or 2

PSYCHOLOGY OPTION

Third Year

Economic and Political Science 28b or 38a	1½
Philosophy 343b, 347	3
Psychology 336, 337a, 338, 339, 343a	9
At least three credits from:	
English 30 or 34	3
French 20 or 30	4 or 3
German 10 or 20 or 30, 31 or 35	2 or 3 or 4

Fourth Year

Economic and Political Science 49b or 352b	1½
Philosophy 442, 450	3
Psychology 444, 446, 448, 449b, 455	10
At least two credits from:	
English 30 or 34 or 40 or 48	3 or 2

Physics

See Course Va, Chemistry and Physics, page 70, and Course XIV, Mathematics and Physics, page 76.

XVI. Romance Languages

Requirements for Admission: Group 4, page 60, with an average of at least 60% in Spanish 10, in French 10, 20, and in Latin 10, 20.

This course satisfies the academic requirements for the French and Spanish Specialist Certificate of the Department of Education of Ontario. For conditions, see page 56.

Second Year

Subject	*Credits*
History 30	3
Physical Education 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

Subject	*Credits*
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 59, with an average of at least 60% in the Sciences.

Second Year

Subject	*Credits*
French 1 or German 5 (language not previously taken)	3
Physical Education 20 or 21	1
Botany 250a	2½
Chemistry 200	4
Geology 257	5
Physics 204, 205	3
Zoology 250b	2½

Third Year

French 10 or German 35 (language of the Second Year)	3 or 2
Botany 466	2½
Chemistry 303	4
Chemistry 444	3½
Zoology 350a, 450b	5
Zoology 357	2

Fourth Year

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

DESCRIPTION OF COURSES

DEPARTMENTS OF BIOLOGICAL SCIENCE

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

11. **Biological Science:** the fundamental principles of biology with 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, 3 and 4, p. 60.

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

Text-books: Strausbaugh and Welmer, *General Biology.*
Kenoyer and Goddard, *General Biology.*
References: Hauber and O'Hanlon, *Biology.*
Jean, Harrah, Herman and Powers, *Man and the Nature of His Biological World.*
Mavor, *General Biology.*
Plunkett, *Outlines of Modern Biology.*
White, *General Biology.*
Young and Stebbins, *The Organism and the World of Life.*

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
W. W. JUDD, B.A., Demonstrator

Students taking work in this department will be required to make a deposit of two dollars with the Bursar to cover breakages. Any surplus will be refunded at the end of the college year.

21. **General Interpretative Biology:** local animals, their habitats and the recognition of the type forms.

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

Prerequisites: Botany 10, Zoology 10.

30. **Arthropoda:** comparative morphology, postembryonic development, and economic importance of typical representatives of the main arthropod groups.

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

Prerequisites: Applied Biology 21, or Zoology 10 or 21.

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

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

Prerequisite: Applied Biology 30.

Honour Courses

450a. **Hexapoda,** Structure and Function: morphology, elementary physiology, embryology and postembryonic development of insects. The student is advised to make an insect collection before taking this course.

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

Prerequisite: Zoology 250.

Textbook: Comstock, *An Introduction to Entomology.*

450b. **Hexapoda,** Taxonomy and Biology: elementary classification and general biologies of the more important groups of insects.

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

Prerequisite: Applied Biology 450a.

Textbook: Comstock, *An Introduction to Entomology.*

451b. **General Arthropodology:** the phylogenetic relationships of the arthropods 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 a week: 2½ credits.

Prerequisite: Zoology 250.

453a. **Fresh-Water Biology:** an environmental study of inland waters, and the fitness of forms to their environment, problems of conservation and of aquatic wildlife. The environmental study will be broadened out into the wider concept of general animal ecology.

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

Prerequisites: Botany 360, Zoology 250.

Text-books: Needham and Lloyd, *The Life in Inland Waters.*
Needham and Needham, *Guide to the Study of Fresh Water Biology.*

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:

550. **Insect Morphology.**

553. **Insect Taxonomy.**

556. **Conservation of Natural Resources and Land Use.**

561a. **Medical Arthropodology.**

561b. **Economic Entomology.**

BOTANY

University College

N. C. HART, M.A., F.A.A.A.S., F.A.G.S., Professor
ANSON R. WALKER, M.A., F.A.A.A.S., Professor of Plant Pathology
HELEN B. BERDAN, M.A., Associate Professor
E. O. HUGHES, B.Sc., Demonstrator
ADA CAMERON, B.Sc., Demonstrator
R. HASKINS, B.A., Technician

Assumption College

VERY 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 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; 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 2 laboratory hours a week: 3 credits.

Prerequisites: complete college entrance requirements.

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

11aN. **General Botany:** *for students in the* B. Sc. course for nurses and in the Home Economics course.

2 lectures and 2 laboratory hours a week: 1½ credits.

Prerequisites: complete college entrance requirements.

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

22b. **Plant Physiology:** the relationship between plants and their surroundings, and some of the functions of the organs of plants.

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

Prerequisite: Botany 25a.

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

25a. **Plant Biology:** the general principles underlying the study of plant culture and plant breeding.

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

Prerequisite: Botany 10 or Botany 11aN (60%), or Biological Science 11 (60%).

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

31a. **Plant Diseases and Fungi:** the recognition of poisonous and edible fungi and the identification, cause and control of common plant diseases.

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

Prerequisites: Botany 25a and 22b, or Botany 10, or Botany 11aN (60%), or Biological Science 11 (60%).

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

36b. **Elementary Bacteriology:** the common economic organisms in reference to water, food supplies, public health and civic problems. Prescribed for third year students in Home Economics: optional for others.

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

Prerequisites: as in 31a.

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

43. **Plant Ecology and Taxonomy:** 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 a week: 4 credits.

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

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

Honour Courses

250. **Biology of Seed Plants:** the evolution, external morphology and anatomy of the Spermatophyta; elementary plant physiology.

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

Prerequisites: Junior Group 1.

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

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

360a. **Algae:** morphology, classification and evolution.

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

Prerequisites: Botany 250 and Zoology 250.

Text-books and References:
G. M. Smith, *Fresh Water Algae of the United States*.
Fritsch, *Structure and Reproduction of the Algae*.
West and Fritsch, *British Fresh Water Algae*.
F. S. Collins, *Green Algae of North America*.
Oltmanns, *Morphologie und Biologie der Algen*.

360b. **Mosses and Ferns:** morphology, classification, evolution.

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

Prerequisites: Botany 250, Zoology 250.

Text-books and References:
Bower, *Origin of Land Flora*.
Campbell, *Mosses and Ferns*.
Coulter, Barnes and Cowles, *Text-book of Botany, Vol. I*.
Strasburger, *Text-book of Botany*.

452b. **Plant Physiology:** the functions and reactions of plants and their organs.

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

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

453. **Ecology and Taxonomy:** the principles of ecology, and the classification of the Spermatophyta.

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

Prerequisites: Botany 360, Zoology 350a, 354.

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

454. **Plant Anatomy:** the cytology and anatomy of the Pteridophyta and Spermatophyta.

2 lectures and 6 laboratory hours a week, one term: 2½ credits.
Prerequisites: Botany 360, Zoology 350a, 354.

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

461a. **Mycology:** plant diseases and the classification, morphology and structure of fungi.

2 lectures and 6 laboratory hours a week, one term: 2½ credits.
Prerequisites: Botany 360, Zoology 350a, 354.

Text-books: Stevens, *Plant Disease Fungi.*
Gwynne-Vaughan and Barnes, *The Structural Development of the Fungi.*

466b. **Bacteriology:** the culture, classification and life histories of selected groups of fungi.

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

Prerequisite: Botany 461a.

Text-books: Tanner, *Bacteriology.*
Jordan, *General Bacteriology.*

474. **Plant Cytology:** a study of plant cells, including the technique of preparing materials for cytological studies.

2 lectures and 6 laboratory hours a week, one term: 2½ credits.
Prerequisite: Botany 454.

Text-books and References: Sharp, *Introduction to Cytology.*
Wilson, *The Cell in Development and Heredity.*
Cowdry, *General Cytology.*
Lee, *The Microtomist's Vade-Mecum.*
Guyer, *Animal Micrology.*
McClung, *Microscopical Technique.*
Darlington, *Recent Advances in Cytology.*

Courses Leading to M.A.

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

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

555. **Plant Genetics:** 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:** the recognition of plant foods, fibres, adulterants, poisonous products, weed seeds, etc.

Discussions and 6 laboratory hours a 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, Mycology, Algology or Cytology.**

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

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

Text-books and References: Stevens, *Plant Disease Fungi.*
Owens, *Principles of Plant Pathology.*
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., F.A.A.A.S.,	Associate Professor
H. B. HITCHCOCK, PH.D.,	Instructor
DOROTHY COX, B.A.,	Demonstrator
REED LOGIE, B.A.,	Demonstrator
MARGARET E. MILLER, B.SC.,	Demonstrator
A. C. NICOL, B.SC.,	Demonstrator

Assumption College

VERY REV. T. A. MACDONALD, M.A.,	Professor
SISTER M. HENRIETTA, 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 two dollars with the Bursar to cover breakages. A refund of any surplus will be made at the end of the college year.

10. **Elementary Zoology:** the principles of Animal Biology, illustrated by typical animal forms. First term, Invertebrate; second term, Vertebrate. **To qualify for the Honour Courses in Biology a student must obtain 60% in Zoology 10.**

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

Prerequisite: complete college entrance requirements.

Text-book: Wolcott, *Animal Biology*.

11bN. **General:** for students in the B. Sc. course for nurses and in Home Economics.

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

21. **Chordate Zoology:** selected Chordate types from the functional, structural and comparative points of view.

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

Prerequisites: Zoology 10 (or Biological Science 11 with 60%).

Text-books: Adams, *An Introduction to the Vertebrates*.
Bensley, *Anatomy of the Rabbit*.
Neal and Rand, *Comparative Anatomy*.

21aN. **Mammalian Zoology:** the evolutionary development of structure and function in the Mammals. For students in the B. Sc. course for nurses and in Home Economics.

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

Prerequisites: Zoology 10 (or Biological Science 11 with 60%).

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

32b. **Elementary Experimental Zoology:** an introduction to simple physiological principles and elementary experimental studies with animals.

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

Prerequisite: Zoology 21.

Text-book: Rogers, *Comparative Physiology*.

33a. **Elementary Animal Phylogeny:** the classification and genetic relationships of animals.

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

Prerequisite: Zoology 21.

Text-books: Hegner, *College Zoology*.
Pratt, *Manual of Common Invertebrate Animals; Manual of Vertebrate Animals*.

44a. **Microscopic Anatomy of Animals:** the elementary principles of microscopic structure and development of animals.

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

Prerequisite: Zoology 21.

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

46b. **Elementary Principles of Genetics:** inheritance.

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

Prerequisite: Zoology 21.

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

Honour Courses

250. **Invertebrate Zoology:** to supplement the study of Invertebrate Animals begun in Zoology 10a. Two primary objectives will be kept in mind: the evolutionary as revealed by Comparative Anatomy, and the applied as shown by a consideration of the human relationships of a few outstanding economic forms.

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

Prerequisite: Junior Group 1.

Text-books: Borradaile, Eastham, Potts and Saunders, *The Invertebrata*.
Hegner, *Invertebrate Zoology*.
Chandler, *Introduction to Human Parasitology*.

350a. **Comparative Anatomy:** the anatomy of the Chordates exclusive of the Mammalia, from the functional and evolutionary points of view.

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

Prerequisite: Zoology 250.

Text-books: Kingsley, *Comparative Anatomy of the Vertebrates*.
Adams, *Introduction to the Vertebrates*.
Neal and Rand, *Comparative Anatomy*.
Hyman, *Laboratory Manual, Elementary Zoology*.
Hyman, *Laboratory Manual, Comparative Anatomy*.

354b. **Elementary Histology, Embryology and Experimental Biology:** an introduction to the microscopic structure, the functioning and the development of vertebrate tissues and organs as exemplified in the frog.

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

Prerequisites: Zoology 350a.

Text-books: Holmes, *Biology of the Frog*.
Scott and Kendall, *Microscopic Anatomy of Vertebrates*.
Rogers, *Comparative Physiology*.
McEwen, *Textbook of Vertebrate Embryology*.

357. **History and Theory of Biology:** the history, theory and problems of Biology.

2 lectures a week: 2 credits.

Prerequisites: Zoology 250 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*.

450b. **Mammalian Zoology:** a continuation of Zoology 350a, extending the concepts at the basis of Comparative Chordate Anatomy into the field of Mammalian Anatomy.

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

Prerequisites: Zoology 350a.

Textbooks: Neal and Rand, *Comparative Anatomy.*
Bensley, *Anatomy of the Rabbit.*

451. **Animal Phylogeny:** the phylogenetic relationships of animals, with particular attention to vertebrate descent.

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

Prerequisites: Zoology 350.

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

452a. **Experimental Zoology:** application of general physical and chemical principles to biological phenomena, to elementary cellular physiology, to regeneration, to tropisms, and to metabolic processes as illustrated by selected invertebrate and vertebrate types.

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

Prerequisites: Zoology 354b.

Text-books: Rogers, *Comparative Physiology.*
Barnes, *Textbook of General Physiology.*

454. **Microscopical Anatomy of Animals:** the structure, development and evolution of animal tissues and organs, including the fundamental principles of embryology, as exemplified in typical invertebrates and vertebrates.

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

Prerequisite: Zoology 354b.

Text-books: Scott and Kendall, *Microscopic Anatomy of Vertebrates.*
Dahlgren and Kepner, *Principles of Animal Histology.*
McEwen, *Text-book of Vertebrate Embryology.*
Richards, *Outline of Comparative Embryology.*
Patten, *The Early Embryology of the Chick.*

456. **Laboratory Technique:** for Honour Zoology students and other students who may be qualified to take training in laboratory technique: the preparation of materials for study in the Zoological Laboratory, the preparation of specimens for the teaching museum, photography as it pertains to the teaching and practice of Zoology, the preparation of Zoological demonstrations and illustrations.

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

Prerequisites: Third year Honour Biology or the approval of the Dean and of the Head of the Department.

Text-book: Galigher, *Essentials of Practical Microtechnique.*

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
W. A. THOMPSON, M.B.A.,	Associate Professor
MALCOLM SLAGHT, M.B.A.,	Assistant Professor
GORDON MCKEE, B.Eng., M.B.A.,	Instructor
C. C. CARROTHERS, B.A., LL.B.,	Lecturer
GRAYDON JARMAIN, B.A.,	Research Assistant
E. B. Richards,	Student 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:** general business organization, promotion of business enterprises, business finance, industrial management, marketing.

2 hours a week: 2 credits.

Text-books: ***Canadian Case Material.***
Gilbert and Gragg, *Introduction to Business.*

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

1 hour a week: 1 credit.

Text-book: *Canadian Case Material.*

30. **Accounting and Bookkeeping:** prescribed for Secretarial Science students.

2 hours a week: 2 credits.

Text-book: Jackson, Sanders and Sproul, ***Bookkeeping and Business Knowledge.***

36. **Business Mathematics:** first term; interest, annuities, bonds: second term; use of fractions and decimals in solving problems; billing, pay rolls, trade discounts, duties, customs, commission, bank interest and discount, exchange, rapid calculation.

Text-books: Tate, *Annuities and Bonds.*
Batstone, *A Commercial Arithmetic.*

Honour Courses

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 a week: 2 credits.

Text-book: Hosmer, *Problems in Accounting.*

250. **Accounting:** bookkeeping and financial statement procedure, including the development of modern accounting records, special journals, work sheets and working papers and an introduction to partnership and corporation accounting.

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

Text-books: Hosmer, *Problems in Accounting.*
Finney, *Introduction to Accounting.*

251. **Marketing:** first half-year, methods of marketing consumer goods and wholesale distribution; second half-year, methods of marketing industrial goods. The problem method is used with collateral readings and written reports.

3 hours a week: 3 credits.

Text-book: Learned, *Problems in Marketing*

255. **Business Statistics:** importance to the business executive; the use and interpretation of business and economic statistics; laboratory work.

3 lectures a week, 2 hours laboratory (every second week): 3 credits.

Text-books: Snider, *Business Statistics.*
Riggleman and Frisbee, *Business Statistics.*
Cases and Problems in Business Statistics.

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 a week: 1½ credits.

350. **Advanced Accounting:** first term; problems of valuation; preparation of accounting statements, principles of analysis, statement of funds, their sources and application; assets, liabilities, capital stock, surplus and reserves: second term; consignments, instalment sales, branch house accounting, mergers, holding companies, consolidated balance sheets and profit and loss statements, receivership accounting, statement of affairs, realization and liquidation, dissolution of partnerships, accounting for estates and trusts.

3 hours a week: 3 credits.

Text-books: Taylor and Miller, *Intermediate Accounting.*
Hensel, *Problems in Advanced Accounting.*

351. **Sales Management:** the manufacturer's viewpoint; actual cases; outside readings; a term report from each student on a sales problem of a Canadian manufacturer.

3 hours a week: 3 credits.

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

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 a week: 3 credits.

Text-books: Masson and Stratton, *Problems of Corporation Finance.*
Canadian Business Problems.

354. **Industrial Management:** the trend of industry and the management problems connected therewith. Visits to plants form part of the course: each student pays $10.00 toward the cost of these visits.

3 hours a week: 3 credits.

Text-books: Folts, *Industrial Management.*
Alford, *Industrial Management Handbook.*

356b. **Commercial Law:** principles of contract law from the elements to the remedies for breach; agency, banking and bills of exchange, partnerships, corporations, foreign judgments.

3 hours a week: 1½ credits.

Text-books: Anson, *Contracts.*
Falconbridge, *Banking and Bills of Exchange.*

450. **Cost Accounting:** cost finding, covering material handling, labour problems, burden and its distribution. A close contact is maintained with industry and various systems in operation are studied, including executive use of cost information.

3 hours a week: 3 credits.

Text-books: Sanders, *Cost Accounting for Control.*
Lawrence, *Cost Accounting.*
Canadian Business Cases.

451. **International Commercial Relations:** foreign trade, trends and factors (raw materials, manufactured goods, tariffs, investments); branch factories; exporting; credit financing and exchange; transportation; marine insurance.

2 hours a week: 2 credits.

Text-book: Roorbach, *Problems in Foreign Trade.*

454. **Factory Management:** established principles and practices, factory control. Visits to local plants form part of the course.

3 hours a week: 3 credits.

Text-book: *Current Case Material.*

458. **Executive Problems:** designed to co-ordinate the courses of the department and to emphasize problems of business policy. At frequent intervals business executives discuss specific problems of their businesses.

3 hours a week: 3 credits.

Text-book: *Current Case Materials.*

459. **Research:** the investigation and report of a problem, chosen in consultation with the head of the department and the instructor under whose guidance the investigation is made.

3 credits.

460. **Auditing:** duties and responsibilities of auditors: kinds of audits and audit programs, audit theory and practice.

3 hours a week: 3 credits.

Text-books: Hanson, *Problems in Auditing.*
Nelson, *Auditing Procedure.*
Smails, *Auditing.*

461. **Retailing:** retail accounting, merchandising problems and policies, pricing, control, advertising, personnel.

3 hours a week: 3 credits.

Text-book: McNair, Gragg and Teele; *Problems in Retailing.*

470. **Municipal Accounting and Auditing:** financial and other essential statements, e.g., current and capital balance sheets, statements of revenues and expenditures; budget control; segregation of funds; financing current operations; taxation; assessment; city management; regulations respecting municipal audits.

2 hours a week: 2 credits.

Text-book: *Current Case Material.*

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.

3 hours a week: 3 credits.

Text-book: Borden, *Problems in Advertising.*

One Year Intensive Course for Graduate Students

The purpose of this course (see pages 67-68) is to emphasize a few fundamental principles in accounting, finance, production and distribution.

5x0a. **Accounting:** broad principles of accounting; analysis of financial statements.

3 hours a week: 1½ credits.

5x1. **Distribution:** principles of marketing and advertising; sales and advertising management; the physical distribution of commodities.

3 hours a week: 3 credits.

5x3a. **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.

3 hours a week: 1½ credits.

5x4. **Industrial Management:** principles of factory management; industrial relations; problems of industrial organization, production, distribution and finance.

3 hours a week: 3 credits.

5x5a. **Statistics and Statistical Services:** application of business theories to practical problems; methods of industrial analysis.

3 hours a week: 1½ credits.

5x8b. **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.

3 hours a week: 1½ credits.

5x9b. **Research Problem:** the report of an original investigation.

3 credits.

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, M.SC., PH.D.,	Associate Professor
K. W. HUNTEN, M.SC., PH.D.,	Assistant Professor
J. K. WATSON, M.A.,	Senior Demonstrator
WM. COWIE, B.A.,	Demonstrator
R. HOOEY, B.A.,	Demonstrator
VICTOR GILPIN, B.A.,	Demonstrator
F. LOSSING, B.A.,	Demonstrator
F. W. PYE,	Instrument Maker
JOHN DRAKE,	Curator

Assumption College

VERY REV. T. A. MACDONALD, M.A., Professor
SISTER M. HENRIETTA, M.A., Lecturer
MAURICE J. MULLIGAN, M.A., Lecturer
REV. F. S. RUTH, B.A., Lecturer

Waterloo College

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

Alma College

RUTH C. STEWART, B.A., Instructor

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. Any remainder will be refunded through the office of the Bursar at the end of the college year.

10. **General Chemistry:** for Junior Group 1; lectures and laboratory work. The laboratory work consists of experiments covering the principles of General Chemistry and Qualitative Analysis. **To qualify for Honour Courses in Chemistry a student must obtain 60 per cent. in Chemistry 10.**

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

Text-books: Deming, *General Chemistry* (Wiley).
Belcher and Williams, *Qualitative Analysis* (Houghton Mifflin).

11N. **General:** for students in the course for nurses and in home economics.

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

Text-book: MacLeod and Nason, *Chemistry and Cookery* (McGraw-Hill).

22. **Qualitative and Quantitive Analysis:** a laboratory course.

1 lecture, 5 laboratory hours a week: 3 credits.

Prerequisite: Chemistry 10.

Text-book: G. McP. Smith, *Quantitative Analysis* (Macmillan).

22aN. **Analytical:** for second year students in the course for nurses and in home economics.

2 lectures, 3 laboratory hours a week: 1½ credits.

Prerequisite: Chemistry 11N.

Text-book: Burns and Stewart, *Quantitative Analysis for Medical Students.*

23b. **Chemistry of the Home:** organic chemistry; detergents, textiles, fuels; for second year students in home economics.

2 lectures, 3 laboratory hours a week: 1½ credits.

Prerequsite: Chemistry 11N, 22aN.

33. **Organic Chemistry:** 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 61).

2 lectures, 3 laboratory hours a week: 3½ credits.

Prerequisite: Chemistry 10.

Text-books: Burns, *Laboratory Manual in Organic Chemistry.*
Conant, *Organic Chemistry* (Macmillan).

36a. **Biochemistry and Food Analysis:** for third year students in home economics.

2 lectures and 3 laboratory hours: 1½ credits.

44. **Physical Chemistry:** a descriptive and non-mathematical treatment of the principles which govern reactions in chemical systems; optional in the Senior Group (page 61).

2 lectures, 3 laboratory hours a 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, 4 laboratory hours a 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; micro-qualitative analysis.

2 lectures, 11 laboratory hours a week, first term:

2 lectures, 4 laboratory hours a week, second term: 6 credits.

Text-books: Chapin, *Exercises in Second Year Chemistry* (Wiley).
Meldrum and Gucker, *Introduction to Theoretical Chemistry* (American).

252b. **Quantitative Analysis.**

1 lecture, 7 laboratory hours a week: 2½ credits.

Text-books: Hall, *Quantitative Analysis* (Wiley).
Kolthoff and Sandell, *Textbook of Quantitative Inorganic Analysis* (Macmillan).

257a. **History and Literature of Chemistry.**

1 lecture a week: ½ credit.

Text-book: Partington, *Short History of Chemistry* (Macmillan).

303. **Organic Chemistry:** 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 a week: 4 credits.

Prerequisite: Chemistry 10, 200 or 250.

Text-books: Schmidt, *A Text-book of Organic Chemistry* (Gurney and Jackson).
Conant, *Organic Chemistry* (Macmillan).
Lucas, *Organic Chemistry* (American).
Morton, *Organic Chemistry Technique* (McGraw-Hill).

354. **Elementary Physical Chemistry:** a systematic derivation of the principles which govern reactions in chemical systems; for third year Honour Chemistry students.

2 lectures, 6 laboratory hours a 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 to the other branches of science and the industries.

2 lectures, 3 laboratory hours a week: 3½ credits.

Prerequisites: Chemistry 10, 200.

451a. **Electrochemistry:**

2 lectures, 4 laboratory hours a week: 2 credits.

Prerequisite: Chemistry 354 or 444.

Text-book: Creighton and Fink, *Electrochemistry* (Wiley).

452a. **Advanced Analytical Chemistry:** qualitative and quantitative analysis by micro and macro methods.

1 lecture, 7 laboratory hours a week: 2 credits.

Text-books: Emich and Schneider, *Micro-chemical Laboratory Manual* (Wiley).
Pregl, *Micro Organic Analysis*.
Chamot and Mason, *Handbook of Chemical Microscopy* (Wiley).
Benedetti-Pichler, Spikes, *Microtechnique of Inorganic Qualitative Analysis*.
Scott, *Standard Methods of Analysis* (Van Nostrand).
Griffin, *Technical Methods of Analysis* (McGraw-Hill).

453. **Advanced Organic Chemistry.**

2 lectures, 3 laboratory hours a week: 3½ credits.

Prerequisite: Chemistry 303.

Text-books: Thorpe and Whitely, *Organic Chemical Analysis* (Longmans, Green).
Schmidt, *Organic Chemistry*.
Whitmore, *Organic Chemistry* (Van Nostrand).

454. **Advanced Physical Chemistry:** a study 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, 4 laboratory hours a week: 4 credits.

Prerequisite: Chemistry 354 or 444.

Text-books: Sivertz, *Outline of Thermodynamics*.
Getman and Daniels, *Outline of Theoretical Chemistry*.
MacDougall, *Physical Chemistry* (Macmillan).

455b. **Colloid Chemistry.**

2 lectures, 4 laboratory hours a week: 2 credits.

Prerequisite: Chemistry 200 or 250.

Text-books: Kruyt, *Colloids* (Wiley).
Holmes, *Laboratory Manual of Colloid Chemistry* (Wiley).

456b. **Biochemistry:** a survey: optional as a part of Chemistry 459.

2 lectures, 3 laboratory hours a week: 1½ credits.

Prerequisite: Chemistry 303, 354.

Text-book: Bodansky, *Introduction to Physiological Chemistry* (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.

9 hours a week: 3 credits.

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:** to be arranged.

DEPARTMENT OF CLASSICS

University College

H. W. AUDEN, M.A.,	Emeritus Professor
J. D. RALPH, PH.D., Acting Head,	Associate Professor
DEAN K. P. R. NEVILLE, PH.D.,	Professor
R. E. K. PEMBERTON, M.A.,	Associate Professor
D. O. ROBSON, PH.D.,	Assistant Professor
MRS. RHENA K. ROBSON, M.A.,	Lecturer

Alma College

PRINCIPAL PERRY S. DOBSON, M.A., D.D.,	Professor
LOUISE NEVILLE, M.A.,	Instructor

Assumption College

REV. G. J. THOMPSON, B.A.	Lecturer
SISTER M. ROSALIE, M.A.	Lecturer

St. Peter's College

REV. T. J. MCCARTHY, M.A., S.T.D., Instructor
REV. L. J. FLYNN, S.S.L., Instructor

Ursuline College

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

Waterloo College

REV. C. H. LITTLE, B.A., S.T.D., D.D., Professor
J. D. JEFFERIS, PH.D., Professor

Huron College

PRINCIPAL C. C. WALLER, M.A., D.D., Professor
REV. F. ANDERSON, M.A., D.D., Professor

LATIN

Each student in any of the Latin courses is required to have at least one of the following Latin grammars: Bennett, Allyn and Bacon, Boston; Allen and Greenough, Ginn & Co., New York; Gildersleeve and Lodge, Heath & Co., Boston; and an Elementary Latin Dictionary, American Book Co.

General Course students may find Allen's Elementary Latin Grammar (Clarendon Press) sufficient.

10. Selections from Latin Prose and Poetry; composition and sight translation.

3 hours a week: 3 credits.

Prerequisite: Middle School Latin.

Text-books: Neville et al., *Selections from Latin Prose, Part III.* (Macmillan).
Neville et al., *Latin Poetry Book, Part III.* (Macmillan).
Pilsbury, *Latin Prose Composition* (Oxford).

20. Pliny, *Letters;* Virgil, *Aeneid II;* Ovid, *Metamorphoses VIII;* composition; sight translation.

4 hours a week; 4 credits.

Prerequisite: Latin 10 or Upper School Latin.

Text-books: C. Georgin, *Pline le Jeune, Lettres Choisies* (Hatier).
Page, *Virgil, Aeneid II* (Macmillan).
Summers, *Ovid, Metamorphoses VIII.*(Macmillan).
Arnold, *Latin Prose Composition* (Longmans).

24. **Mediaeval Latin:** (a) a survey of Mediaeval Latin Literature; (b) Greek Literature in English translation (taken as Greek 39). Offered in University College only.

3 hours a week: 3 credits.

25x. **Introduction to Mediaeval Latin:** Cicero *De Amicitia;* St. Ambrose, *Hymns and Homilies;* St. Augustine, *Confessions;* a comparative study of the thought and style of Cicero and St. Augustine; syntax and composition. Offered in St. Peter's College only.

3 hours a week: 3 credits.

30. Cicero, *De Amicitia;* Virgil, selections from the *Bucolics* and *Georgics;* Tacitus, *Agricola;* lectures on the literature and the history of the Republic; composition, sight translation.

3 hours a week: 3 credits.

Prerequisite: Latin 20.

Text-books: Shuckburgh, *Cicero, De Amicitia* (Macmillan).
Page, *Virgil, Bucolics and Georgics* (Macmillan).
Church and Brodribb, *Tacitus, Agricola and Germania* (Macmillan).

35x. **Survey of Mediaeval Latin:** from the death of St. Augustine to the 12th Century; lectures on Latin style and culture of the period; syntax and composition. Offered in St. Peter's College only.

3 hours a week: 3 credits.

Text-book: Harrington, *Mediaeval Latin.*

39. **Latin Literature in English Translation:** a survey of Latin Literature for those without a reading knowledge of Latin.

1 hour a week: 1 credit.

Text-books: Mackail, *Latin Literature* (Macmillan).
The Complete Works of Horace (Modern Library).
Virgil's Works (Modern Library).

40. Virgil, *Aeneid I-V;* Horace, *Satires, Epistles;* Juvenal, *Satires;* composition, sight translation.

3 hours a 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 of Mediaeval and Renaissance Latin:** from the 12th Century to the present; lectures on Latin style and culture; syntax and composition. Offered in St. Peter's College only.

3 hours a week: 3 credits.

Text-book: Harrington, *Mediaeval Latin.*

Honour Courses

Comprehensive examinations will be set for all Honour students at the end of the fourth year.

207. **Greek and Roman History:** lectures, readings and reports. Prescribed for students in Honour Classics and optional with the consent of the instructor for other qualified students.

2 hours a week: 2 credits.

Text-books: Bury, *History of Greece* (Modern Library).
Frank, *History of Rome* (Holt).

230. Cicero, *De Amicitia;* Virgil, selections from *Bucolics* and *Georgics;* Tacitus, *Agricola;* the literature of the Republic.

2 hours a week: 2 credits.

Prerequisite: Group 3 or 4, page 60.

Text-books: Shuckburgh, *Cicero, De Amicitia* (Macmillan).
Page, *Virgil, Bucolics and Georgics* (Macmillan).
Church and Brodribb, *Tacitus, Agricola and Germania* (Macmillan).

250. Selections from Propertius, Tibullus, Ovid, Horace, *Odes.*

1 hour a week: 1 credit.

Prerequisite: Group 3 or 4, page 60.

Text-books: Harrington, *The Roman Elegiac Poets* (American).
Page, *Horace's Odes* (Macmillan).

251. **Composition and sight translation.**

2 hours a week: 2 credits.

Prerequisite: Group 3 or 4, page 60.

340. Virgil, *Aeneid I-V.;* Horace, *Satires* and *Epistles;* Juvenal, *Satires.*

2 hours a week: 2 credits.

Prerequisite: Latin 230.

Text-books: Morris, *Horace, Satires and Epistles* (American).
Hardy, *Juvenal* (Macmillan).
Page, *Virgil, Aeneid I-VI* (Macmillan).

350. **Cicero:** the history of his life and times; *De Officiis III, Pro Murena, Philippic II, Letters.*

2 hours a week: 2 credits.

Prerequisite: Latin 230, 250.

Text-books: Holden, *Cicero, De Officiis III* (Cambridge).
How, *Cicero's Select Letters* (Oxford).
Freese, *Cicero, Pro Murena* (Macmillan).

351. **Composition and sight translation.**

1 hour a week: 1 credit.

Prerequisite: Latin 251.

352. **Roman Comedy** with an introduction to historical Latin Grammar.

1 hour a week: 1 credit.

Prerequisite: Latin 230, 250.

Text-books: Jones, *Plautus, Menaechmi* (Oxford).
Freeman and Sloman, *Terence, Andria* (Clarendon).

424. **Archaeology, Latin Epigraphy, Latin Palaeography:** prescribed for students in Honour French and Latin. Offered in University College only.

3 hours a week: 2 credits.

Prerequisite: Latin 340, 350, 351, 352.

450. **Roman Historians,** with special reference to Livy and Tacitus.

2 hours a week: 2 credits.

Prerequisite: Latin 340, 350, 352.

Text-books: C. Georgin, *Tite-Live, Histoire, Extraits* (Hatier).
Furneaux, *Tacitus, Annals I-IV* (Oxford).

451. **Composition and sight translation.**

1 hour a week: 1½ credits.

Prerequisite: Latin 351.

452. *Lucretius, I-III* (Selections), *V;* Virgil, *Aeneid, VII-XII;* Quintilian, *Book X;* Cicero, *Pro Archia;* Horace, *Satires I, 4, 10; Ars Poetica;* Aristotle, *Poetics.*

2 hours a week: 2 credits.

Prerequisites: Latin 340, 350, 352.

Text-books: *Lucrèce, De Natura Rerum* (Hatier).
Duff, *De Rerum Natura V* (Pitt).
Peterson, *Quintilian, Bk. X* (Oxford).
Page, *Virgil, Aeneid, VII-XII* (Macmillan).
Morris, *Horace, Satires and Epistles* (American).
Butcher, *Aristotle's Theory of Poetry* (Macmillan).

453. **Philology, Epigraphy, Palaeography, Archaeology:** lectures and readings. To be taken with Greek 453.

3 hours a week, one term: 1½ credits.

Prerequisites: Latin 340, 350, 352.

Text-books: Laurand, *Manuel des Etudes Grecques et Latines* (fasc. III and VI.) (Picard).
Wilkinson, *Greek Sculpture* (Macmillan).

GREEK

1. **Elementary Greek:** a preparatory course leading up to the standard of Matriculation (omitting Homer) 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 a week: 4 credits.

Prerequisite: complete college entrance without Greek.

Text-books: White, *First Greek Book* (Ginn).
Phillpotts and Jerram, *Easy Selections from Xenophon*, Chapters 4, 5 (Macmillan).
Colson, *Greek Reader, Pt. IV* (Macmillan).

1x. A preparatory course leading up to the standard equivalent to matriculation in Alexandrian (New Testament) Greek, arranged especially for theological students.

4 hours a week: 4 credits.

See note under Greek 1, above.

10. Xenophon, *Hellenica;* Colson's *Greek Reader, Part VIII;* Homer, *Iliad I,* 1-363, 428-492, 560-600; composition; sight translation.

3 hours a week: 3 credits.

Prerequisite: Junior Matriculation Greek or Greek 1.

Text-books: Phillpotts, *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, *Crito;* Aeschylus, *Prometheus Vinctus;* Xenophon, *Oeconomicus;* Demosthenes, *In Cononem, In Calliclem;* composition; sight translation.

4 hours a week: 4 credits.

Prerequisite: Greek 10 or Honour Matriculation Greek.

Text-books: Burnet, *Plato, Apology and Crito* (Oxford).
Prickard, *Aeschylus, Prometheus Vinctus* (Oxford).
Sewell, *Xenophon, Oeconomicus* (Cambridge).
Swift, *Demosthenes Against Conon and Callicles* (Methuen).
North and Hillard, *Greek Prose Composition* (Copp, Clark).

30. Plato, *Apology;* Aristophanes, *Clouds, Wasps;* lectures on the social, religious and political life of Athens in the fifth century, B.C.; composition; sight translation.

3 hours a week: 3 credits.

Prerequisite: Greek 20.

Text-books: Burnet, *Plato, Apology and Crito* (Oxford).
Merry, *Aristophanes, Clouds* (Oxford).
Merry, *Aristophanes, Wasps* (Oxford).

39. **Literature:** Greek Literature in English; no knowledge of Greek is necessary for this course.

1 hour a week: 1 credit.

40. Sophocles, *Oedipus Rex, Oedipus Coloneus, Antigone;* lectures on the theatre and the development of the drama; composition; sight translation.

3 hours a week: 3 credits.

Prerequisite: Greek 30.

Text-books: Jebb, *Sophocles, Oedipus Rex* (Cambridge).
Jebb, *Sophocles, Oedipus Coloneus* (Cambridge).
Jebb, *Sophocles, Antigone* (Cambridge).

Honour Courses

Comprehensive examinations must be passed by all Honour students at the end of the fourth year.

207. **Greek and Roman History:** lectures, readings and reports. Prescribed for students in Honour Classics and optional with the consent of the instructor for other properly qualified students. Identical with Latin 207.

2 hours a week: 2 credits.

Text-books: Bury, *History of Greece* (Modern Library).
Frank, *A History of Rome* (Holt).

230. Plato, *Apology;* Aristophanes, *Clouds, Wasps;* public, social and political life of Athens in the fifth century, B.C.

2 hours a week: 2 credits.

Prerequisite: Group 3 or 4, page 60.

Text-books: Burnet, *Plato, Crito and Apology* (Oxford).
Merry, *Aristophanes, Clouds* (Oxford).
Merry, *Aristophanes, Wasps* (Oxford).

250. **Homer:** selections from the *Iliad* and the *Odyssey*.

1 hour a week: 1 credit.

Prerequisite: Group 3 or 4, page 60.

Text-books: Monro, *Homer, Iliad* (Oxford).
Merry, *Homer, Odyssey* (Oxford).

251. **Composition and sight translation.**

1 hour a week: 1 credit.

Prerequisite: Group 3 or 4, page 60.

340. **Sophocles:** *Oedipus Rex, Oedipus Coloneus, Antigone,* lectures on the theatre and the drama.

2 hours a week: 2 credits.

Prerequisite: Greek 230.

Text-books: Jebb, *Sophocles, Oedipus Rex* (Cambridge).
Jebb, *Sophocles, Oedipus Coloneus* (Cambridge).
Jebb, *Sophocles, Antigone* (Cambridge).

350. **The Greek Historians:** with special reference to Herodotus and Thucydides.

2 hours a week: 2 credits.

Prerequisite: Greek 230.

Text-books: Butler, *Herodotus VII* (Macmillan).
Marchant, *Thucydides I, II, III* (Macmillan).

351. **Composition and sight translation.**

1 hour a week: 1 credit.

Prerequisite: Greek 251.

352. **Introduction to Greek Philosophy:** Plato, *Republic, I-IV.*

1 hour a week: 1 credit.

Prerequisite: Greek 230.

Text-book: *Plato, Republic* (Oxford Classical Texts).

353. **Euripides,** *Hippolytus, Medea.*

1 hour a week: 1 credit.

Prerequisite: Greek 230.

450a. **Greek Orators:** with special reference to Lysias.

2 hours a week: 1 credit.

Prerequisite: Greek 340, 350.

Text-book: Shuckburgh, *Lysiae Orationes XVI* (Macmillan).

450b. **Aeschylus, Agamemnon:** lectures on the origin and development of Athenian tragedy.

2 hours a week: 1 credit.

Text-book: Sidgwick, *Aeschylus, Agamemnon* (Oxford).

451. **Composition and sight translation.**

1 hour a week: 1½ credits.

Prerequisite: Greek 351.

452. Plato, *Republic V-X;* Aristotle, *Ethics I, II, IV, X.*

3 hours a week: 3 credits.

Prerequisite: Greek 340, 350.

Text-books: *Plato, Republic* (Oxford Classical Texts).
Aristotle, Ethics (Oxford Classical Texts).

453. **Philology, Epigraphy, Palaeography, Archaeology:** lectures and readings. Taken with Latin 453.

3 hours a week, one term: 1½ credits.

Prerequisite: Greek 340, 350.

Textbooks: See Latin 453.

Biblical Greek

N.B.—The purpose of the following courses is to provide Theological students with instruction in Biblical Greek to enable them to make practical use of it in their subsequent work and 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.

25x. The Gospels of St. Mark and St. John; Galatians; The Acts of the Apostles; composition; sight translation.

3 hours a week: 3 credits.

Prerequisite: Greek 1 or Greek 1x 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.*

35x. 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 a week: 3 credits.

Text-books: See Greek 25x.
The Epistle of Clement of Rome (S. P. C. K. *Texts for Students, No. 7*).
References: Lowther Clarke, *The Epistle of Clement of Rome* (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 35x and 45x.

45x. The Gospel of St. Luke; Romans; Hebrews; the Pastoral Epistles; selections from the LXX, the Greek Papyri and early Christian writers; lectures on textual criticism; composition; sight translation.

3 hours a week: 3 credits.

Prerequisite: Greek 35x.

Text-books: See Greek 25x.
Kenyon, *Handbook to the Textual Criticism of the New Testament* (Macmillan).
Kenyon, *The Text of the Greek Bible* (Duckworth) (1937).
Kirsopp Lake, *The Text of the New Testament* (Rivington).
Conybeare and Stock, *Selections from the LXX* (Ginn).
Milligan, *Selections from the Greek Papyri* (Cambridge).
Gwatkin, *Selections from Early Christian Writers* (Macmillan).

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 a 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

M. K. INMAN, PH.D., Acting Head,	Associate Professor
E. E. REILLY, B.S.A., M.S.,	Associate Professor
W. B. HARVEY, LL.B., PH.D.,	Assistant Professor
C. J. BITTNER, PH.D.,	Instructor
E. G. PLEVA, PH.D.,	Instructor
CAMPBELL CALDER, M.A.,	Lecturer
K. GRANT CRAWFORD, M.A.,	Lecturer

Waterloo College

A. MOELLMANN, PH.D.,	Professor

Assumption College

G. R. HORNE, M.A.,	Professor
REV. F. L. BURNS, B.A.,	Lecturer

Huron College

REV. R. R. LATIMER, M.A.,	Lecturer
REV. J. A. WARING, B.A.,	Lecturer

Ursuline College

MOTHER M. ST. MICHAEL, M.A.,	Instructor
MOTHER M. ROSANNA, M.A.,	Instructor

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 a week: 3 credits.

Text-book: Logan, *Materials for Economics.*

28b. **Introduction to Sociology:** an analysis of group life, social contacts, social interaction, social forces, social conflicts, accommodation, assimilation, amalgamation, collective behaviour and social control. (At Ursuline College, 3 hours a week throughout the year: 3 credits.)

3 hours a week: 1½ credits.

30a. **Civics:** critical study of the cultural attainments of modern society, emphasizing our economic and political institutions; current political problems; social planning.

3 hours a week: 1½ credits.

31x. **Introduction to Economics:** the principles and factors of the problems of production, exchange, consumption and distribution of wealth; money and banking; international trade and agriculture; labour problems. Offered in Huron College only.

3 hours a week: 3 credits.

32a. **Introduction to Political Science:** the state, its origin, form and activities, and 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 a week: 1½ credits.

32b. **Dictatorships:** an analysis of the political and economic systems of Germany, Italy and the Soviet Union. The rise of anti-democratic parties and leaders, their conquest of power, economic and political policies and ideals, techniques of internal control and foreign relations. Comparison with democracies. Evaluation and forecast.

3 hours a week: 1½ credits.

33. **Money and Banking:**

Part 1. Monetary systems, characteristics and functions of money; banking organization and practice; central banking organization and operation in Canada, United States and England; other financial institutions; the principles and mechanism of international payments.

Part 2. Monetary theory, long run theories, short run theories; development of short run economics, the bullion controversy, the banking and currency schools, contemporary European monetary theories; policies and practices of central banks; monetary and economic ideals and palliatives; economic equilibrium in international exchange.

3 hours a week: 3 credits.

38a. **Social Anthropology:** a systematic study of the nature, form and function of primitive social groups in their natural environ-

ment; the genesis and development of social institutions and of the various cultural products, such as primitive customs, folkways, mores, religion, art, mythology. The course provides a point of view and a method for the study of the evolution of modern society.

3 hours a week: 1½ credits.

39a. **Rural Sociology:** the nature, growth and development of rural communities; basic social institutions; standard of living; cultural characteristics, relationships to urban centres; health, wealth, education, rural progress; methods of research.

2 hours a week: 1 credit.

39b. **Urban Sociology:** the study of city life from the point of view of human ecology; the rôle of the city in social life; the stratification of the urban population; the mechanization of urban environment; urban personalities and social groups; the mobility of the urban population; occupations, social changes; the pathological aspects of urban life; the urban home; city planning; the relation between the city and the country.

2 hours a week: 1 credit.

42a. **Municipal Affairs:** a detailed examination of the laws governing Municipal Government in Ontario; the powers of Municipal Councils and other municipal bodies; assessment and taxation.

3 hours a week: 1½ credits.

Textbook: *The Municipal Act. The Assessment Act (Ontario).*

42b. **Comparative Municipal Government and Municipal Problems:**

(1) A general study of municipal government in England, United States, France, Switzerland, etc., and the various Canadian provinces; and

(2) Municipal services and problems, such as Finance, Welfare, Traffic, Public Safety, Administration of Justice, etc.

3 hours a week: 1½ credits.

Textbook: Harris, *Local Government in Many Lands.*

46. **Labour, Theory and Problems:** the study of the organized labour movements in Europe, in the United States and in Canada; the forms of labour organizations, their economic problems; the problems of unemployment, wages, hours of labour; the problems of child labour; industrial accidents, industrial conflicts, conciliation, mediation, arbitration; the trends in modern labour legislation.

3 hours a week: 3 credits.

48a. **Population Problems:** the history of population theories; the quantitative and qualitative aspects of population; the problems of race-mixing; the racial capacity for progress; the psychology of race-

relations; population movements, migration, invasion, immigration, emigration, race contacts, the problems of eugenics and euthenics.

2 hours a week: 1 credit.

48x. **Sociology:** selected studies in social problems of special interest to Theological students and the work of the Church in the prevention and amelioration of them. Offered at Huron College.

3 hours a week, one term: 1½ credits.

References: K. Young, *Introduction to Sociology.*
Lindemann, *The Community.*
Hayes, *Introduction to Sociology.*
Rauschenbusch, *A Theology for the Social Gospel.*

49b. **Criminology:** the causes and the extent of crime; critical analysis of the different schools of criminology and penology; the methods of treatment of crime; prison work; the honour system; self-government; indetermined sentence; probation and parole.

Prerequisite: Economics 28b.

3 hours a week: 1½ credits.

Honour Courses

228b. Identical with 28b.

232a. Identical with 32a.

233. Identical with 33.

251b. **Transportation and Communication: Trade Centres and Trade Routes.** The course deals with the problem of transportation and communication in its geographic, economic, and cultural aspects. Main topics are: analysis and functional structure of the trade centre, the geographic bases of trade, the world shipping industry, inland waterways, the Great Lakes-St. Lawrence problem, competition of transportation companies, rate-making theory and practice, highways, airways, communications, and the transportation problem of Canada.

2 hours a week: 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 a week: 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 assigned readings and reports.

2 hours a week: 1 credit.

259a. **Economic Geography:** its social and commercial aspects; the course deals with the geographic factors of climate, soils, natural vegetation, etc., in relation to commercial production. A systematic

approach to the agricultural regions of the world is presented with special emphasis on North America and the British Empire. Other units of investigation are: products of the sea, products of the earth's crust, products of the forests, production of power, and the manufacturing regions of the world.

3 hours a week: 1½ credits.

300. **Economic Theory:** a survey course with particular reference to problems of value, distribution and economic policy.

2 hours a week: 2 credits.

332b. Identical with 32b.

338a. Identical with 38a.

339a. Identical with 39a.

339b. Identical with 39b.

342a. Identical with 42a.

342b. Identical with 42b.

346. Identical with 46.

348a. Identical with 48a.

350a. **Business Cycles:**

3 hours a week: 1½ credits.

351b. **International Trade and Commercial Policies:** International values, foreign exchange, free trade and protection, commercial treaties, quotas and exchange controls.

3 hours a week: 1½ credits.

Text-book: Ellsworth, *International Economics.*

352b. **International Relations:** the problems arising from the absence of world government. Economic harmonies and conflicts; Nationalism, Militarism, Imperialism; the causes of war and the efforts to avoid it—diplomacy, arbitration, the League of Nations, the World Court, International Law.

3 hours a week: 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 a week: 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 co-operative marketing of agricultural products, the financing of agriculture, government policies and aid. Not given in 1939-40.

2 hours a week: 1 credit.

355a. **Statistical Methods:** an introduction to statistical methods applied to Psychology and Economics; graphical methods and tabulation; frequency distributions; measures of central tendency; measures of variability; probability; the normal curve; correlation, linear, non-linear, partial and multiple; reliability and validity; analysis of time series; index numbers. (Given jointly with department of Philosophy and Psychology.)

3 hours a week: 1½ credits.

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. Not given in 1939-40.

2 hours a week: 1 credit.

449b. Identical with 49b.

450a. **History of Economic Thought:** a survey of the history of economic theory.

3 hours a week: 1½ credits.

452a. **History of Political Thought:** a survey of the development of political theory from the classical period to the end of the eighteenth century.

3 hours a week: 1½ credits.

453b. **Public Finance:** governmental expenditures, revenues, borrowing and debt structures; government activities and financial policies.

3 hours a week: 1½ credits.

458. **Social Control of Business Enterprise:** general survey of governmental activities affecting business; the state as an entrepreneur and manager; governmental assistance to business; governmental regulation of business in its historical, legal, and economic aspects, including recent developments in Canada and elsewhere.

2 hours a week, one term: 1 credit.

460b. **Modern Economic Theory:** recent developments in pure theory, contemporary economic schools, a critique of economic thought.

3 hours a week: 1½ credits.

462b. **Modern Political Theory:** critical review of theories from 1848 to the present.

3 hours a week: 1½ credits.

463. **International Financial Relations:** not given 1939-40.
2 hours a week: 1 credit.

478. **Methods of Sociological Research:** the types of sociological research, the historical, the case method, the survey, the experimental, the statistical; critical analysis of the various points of view and approach in sociological studies; individual research projects by each student. Not given in 1939-40.

Prerequisite: Economics 28b.

3 hours a week, 1 term: 1½ credits.

490b. **Seminar Course:** current economic literature, research. Not given in 1939-40.

3 hours a week: 1½ credits.

Courses Leading to the Degree of M.A.

Advanced courses in Finance, Labour, Economic History and Sociology.

DEPARTMENT OF ENGLISH

University College

W. F. TAMBLYN, PH.D.,	Professor
J. A. SPENCELEY, M.A.,	Professor
MRS. F. S. ALBRIGHT, M.A.,	Associate Professor
*F. STILING, M.A.,	Assistant Professor
JEAN I. WALKER, A.L.C.M.,	Instructor
ELEANOR DOHERTY, M.A., PH.D.,	Instructor
DORIS LIDDICOATT, M.A.,	Lecturer
MRS. JEAN T. NEVILLE, M.A.,	Lecturer
HELEN M. ALLISON, B.A.	Assistant
MRS. MARGARET SEAGER AULD, B.A.,	Assistant
MARGARET MACLAREN, M.A.,	Assistant
KATHLEEN MILLIGAN, B.A.,	Assistant

Alma College

HELEN HARDY, B.A.,	Instructor
EDNA M. SPARLING, B.A.,	Instructor

Assumption College

REV. E. G. LEE, B.A.,	Professor
REV. A. J. DENOMY, PH.D.,	Lecturer
REV. H. V. MALLON, B.A.,	Lecturer
REV. J. S. MURPHY, M.A.,	Lecturer
REV. EDMUND M. YOUNG, B.A.,	Lecturer
SISTER M. ELECTA, M.A.,	Lecturer
SISTER M. RAPHAILDA, M.A.,	Lecturer
SISTER ALOYSIUS MARY, M.A.,	Lecturer
MARIANNA SOULE VAN DOREN, B.A.,	Lecturer

*On leave, 1938-39.

Ursuline College

MOTHER M. ST. JAMES, M.A., Professor

St. Peter's College

REV. T. J. MCCARTHY, M.A., S.T.D., Instructor
REV. A. J. DURAND, B.A. Instructor

Waterloo College

CARL F. KLINCK, M.A., Professor

10. **Shakespeare and Prose Selections.**

A. A critical study of:
Shakespeare, *Richard III; Henry IV, Part II; Hamlet; The Tempest.*

B. A careful reading of the following plays:
Shakespeare, *Richard II; Henry IV, Part I; Much Ado About Nothing;*
Dekker, *The Shoemaker's Holiday.*

C. A careful reading of selections in *English Prose, Selected English Essays* and Boswell s *Johnson.*

D. History of English Literature: older drama and prose.

2 hours a week: 2 credits.

Text-books: Deighton's *Shakespeare* (Macmillan), or *The New Hudson* (Ginn), or *The Arden Shakespeare* (Heath); *Swan* edition of *The Tempest* (Longmans).
Holzknecht and McClure, *Selected Plays of Shakespeare, Vol. I* (American Book Co.).
Pocock, *The Shoemaker's Holiday* (Dent).
Bailey, *A Shorter Boswell* (Nelson).
Legouis, *History of English Literature* (Oxford).
English Prose, I, II, III (Oxford).
Selected English Essays (Oxford).

11. **Composition:** the mechanics of writing; exercises and essays required.

1 hour a week: 1 credit.

Text-book: Jensen, Schmitz and Thoma, *Modern Composition and Rhetoric* (Houghton Mifflin).

19. **Speech Education:** the principles of public speaking in the practical and familiar types of address; the ends of speech, such as exposition, belief, action and entertainment; assignments to test the speaker's ability to select, arrange and deliver extemporaneously and effectively.

1 hour a week; 1 credit.

Text-book: Horner, *Elements of Public Speech* (Heath).

20. **General Literature:** from Chaucer to the present day.

2 hours a week: 2 credits.

Text-books: McCutcheon and Vann, *An Anthology of English Literature* (Holt).
Legouis, *A Short History of English Literature* (Oxford).
Osgood, *The Voice of England* (Harper).
Shakespeare, *Romeo and Juliet, Hamlet* (Macmillan or Ginn).
Sheridan, *The Rivals* (Heath).
Edgeworth, *Castle Rackrent* (Dent).
Thackeray, *Vanity Fair* (Dent).
Hardy, *Far From the Madding Crowd.*

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 a week: no credit.

Text-book: Chase, *Constructive Theme Writing* (Holt).

21. **Composition and Rhetoric:** relation of material to style; exercises, essays and conferences required.

1 hour a week: 1 credit.

Prerequisite: English 11.

Text-books: Woolley and Scott, *College Handbook of Composition* (Heath).
Chase, *Constructive Theme Writing* (Holt).
References: Babcock, Horn and English, *Creative Writing for College Students* (American Book Co.).
Thorpe, Rankin 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 a week: 3 credits.

Text-books: Lieder, *Eminent British Poets of the Nineteenth Century* (Harper).
Alden, *Readings in English Prose of the Nineteenth Century* (Houghton Mifflin).
Austen, *Pride and Prejudice* (Nelson).
Dickens, *David Copperfield*, (Nelson).
Herford, *Age of Wordsworth* (Bell).
Jones, *Critical Essays of the Nineteenth Century* (Oxford, World's Classics).
Meredith, *The Ordeal of Richard Feverel* (Scribner).
Raleigh, *Poems of Blake* (Oxford).
Scott, *Guy Mannering* (Nelson).
George Eliot, *Adam Bede* (Nelson or Dent).
H. Walker, *Age of Tennyson* (Bell).

31. **Composition, Practical Exposition:** the methods of exposition applied to the report and to the business letter.

1 hour a week: 1 credit.

Prerequisite: English 21.

Text-books: Park, *English Applied in Technical Writing*, Revised Edition (Crofts).
Shaaber, *The Art of Writing Business Letters* (Houghton Mifflin).

34. **Modern English Prose:** reading, seminars, and essays.

3 hours a week: 3 credits.

Text-books: Cordell, *American Points of View, 1935* (Doubleday, Doran).
Lippmann and Nevins, *A Modern Reader* (Heath).
Shepard, *Contemporary Essays* (Scribner).
Pritchard, *More Essays of To-day* (Harrap).

40. **Recent English Literature:** poetry since Tennyson and prose since Ruskin.

2 hours a week: 2 credits.

Text-books: Lieder, *Eminent British Poets of the Nineteenth Century* (Harper).
Untermeyer, *Modern British Poetry* (Harcourt, Brace).
Chesterton, *The Victorian Age in Literature* (Home University Library).
H. James, *The Turn of the Screw* (Dent).
Stevenson, *Essays* (Macmillan).
Shaw, *The Man of Destiny* (Macmillan).
Short Stories by Modern Writers, ed. R. W. Jepson (Longmans, Green).
Selected Modern English Essays (Oxford).
Selected Modern English Essays: Second Series (Oxford).
Essays by Modern Writers, ed. R. W. Jepson (Longmans, Green).
F. Swinnerton, *The Georgian Scene* (Dent).
A. C. Bradley, *Poetry for Poetry's Sake* (in his *Oxford Lectures*, Macmillan).
Hudson, *Green Mansions* (Modern Library).

42. **Medieval Literature:** the period culminating in Chaucer.

1 hour a 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).
The Oxford Book of Ballads (Oxford).
Chaucer, *Works* (Oxford or Houghton Mifflin).

48. **Canadian and American Literature:** prose and poetry; optional with English 42 for students in the fourth year of the General Course.

2 hours a week: 2 credits.

Honour Courses

200. **Eighteenth Century Literature:** extensive reading from the literature of the period, 1660 to 1798. Seminars.

1 hour a week: 1 credit.

210. **Shakespeare and Prose Selections:** a critical study of Shakespeare, *Richard II*, *Henry IV* (*Parts I and II*), *Hamlet*, *The Tempest;* a careful reading of: Shakespeare, *Comedy of Errors*, *Richard III*, *As You Like It*, *Much Ado About Nothing*, *Antony and Cleopatra;* Dekker, *The Shoemaker's Holiday*; prose and history of literature as in English 10, C and D.

2 hours a week: 2 credits.
Prerequisite: Junior Group 3 or 4.

250. **Epochal Works:**

2 hours a week: 2 credits.

Text-books: Milton, *Paradise Lost* (Nelson).
Shelley, *Prometheus Unbound*.
Arnold, *Poems* (Nelson).
The English Parnassus (Oxford).
Austen, *Northanger Abbey* (Nelson).
Scott, *The Antiquary* (Nelson).
Bronte, *Shirley* (Nelson).

251. **Composition, The Literary Essay:** the development of the literary essay; essays, reading and conferences prescribed.

1 hour a week: 1 credit.

Prerequisite: English 21.

Text-books: Jensen, Schmitz and Thoma, *Composition and Rhetoric* (Houghton Mifflin).
Paddock and Talntor, *On Writing Essays* (Macmillan).
Newbolt, *Essays and Essayists* (Nelson).
English Essays of To-day (Oxford).
Boas, *Modern English Prose* (Macmillan).

330. Identical with English 30.

352. **Old and Middle English Literature:** the prescribed readings are arranged to illustrate the development of English literature from Widsith to Chaucer.

1 hour a 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 a week: 1 credit.

Text-book: J. W. Bright, *An Anglo-Saxon Reader* (Holt).

362. **Chaucer:** critical study and reading.

1 hour a week: 1 credit.

440. Identical with English 40.

448. **Canadian and American Literature:** the chief Canadian and American writers. Seminars.

2 hours a week: 2 credits.

450. **Elizabethan and Caroline Literature.**

2 hours a week; 2 credits.

Text-books: *The English Parnassus* (Oxford).
English Verse, Vols. I and *II*, ed. Peacock (Oxford).
Spenser, *Faerie Queene, Book V* (Macmillan).
Milton, *Poems*, ed. Patterson (Crofts).
Hakluyt, *Voyages of Drake and Gilbert* (Oxford).
Browne, *Religio Medici* (Macmillan).
Craik, *English Prose, Vol. II* (Macmillan).

453. **The History of the English Language:** from the earliest records to the present, with special reference to the historical explanation of living forms.

1 hour a week: 1 credit.

References: The various histories of the English Language by Baugh, Kennedy, Emerson, Jespersen Wyld, Krapp and Sweet.

454. **English Thought and Literary Criticism:** in the Nineteenth Century.

1 hour a week: 1 credit.

456. **The Elizabethan Drama:** the rise of English Drama and the development of Shakespeare as a dramatist.

2 hours a week: 2 credits.

Text-books: Adams, *Chief Pre-Shakespearean Dramas* (Houghton Mifflin).
Brooke and Paradise, *English Drama, 1580-1642* (Heath).
Kittredge, *Shakespeare* (Houghton, Mifflin).

Courses Leading to the Degree of M.A.

534. Identical with 34.

548. Identical with 48.

550. **Seventeenth Century Prose:** 1599 to 1660. Not offered in 1939-40.

554. **Contemporary English Literary Criticism** (a continuation of 454b): a survey of 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.

Among the references in this course are the following:

Bosanquet, *History of Aesthetic* (1917).
Santayana, *Reason in Art.*
Croce, *Aesthetic.*
Saintsbury, *History of Criticism.*
Ker, *The Art of Poetry.*
A. C. Bradley, *Oxford Lectures on Poetry.*
Raleigh, *Style. Milton.*
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); *Practical Criticism.*
Ogden, Richards and Wood, *The Foundations of Aesthetics* (Allen and Unwin).
L. Lewisohn, *A Modern Book of Criticism* (Macmillian).
T. S. Eliot, *Collected Essays.*
Maritain, *Art and Scholasticism* (Sheed and Ward).
M. M. Rader, *A Modern Book of Esthetics* (Holt).

Also books and articles by Bridges, Shaw, Elton, More, Gayley, Read, Fausset, Ducasse.

564. **English Thought:** between 1660 and 1798; to be taken with 574.

3 hours a week: 3 credits.

574. **English Aesthetics and Criticism:** between 1660 and 1798; to be taken with English 564.

3 hours a week: 3 credits.

DEPARTMENT OF GEOLOGY AND GEOGRAPHY

J. W. RUSSELL, M.A., Professor
G. H. REAVELY, M.A., D.I.C., Associate Professor
E. G. PLEVA, PH.D., Instructor, Geography

20. **Introduction to Geography:** The first half of the course deals with the elements of the natural landscape: weather and climate, natural vegetation, soils, physiographic processes,mineral resources, and hydrography. The second half of the work is concerned with the elements of the cultural landscape: man's relation to physical environment, to location, to land forms, to soil and minerals, to climate, to vegetation and animals, and finally man's relation to man. Field trips constitute an important part of the course. Although the scope of the subject is world-wide, community resources are utilized extensively for purposes of illustration.

3 hours a week: 3 credits.

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, 4 laboratory hours a week: 3 credits.

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 a week with field trips: 3 credits.

Text-book: Miller, *Introduction to Historical Geology.*

Honour Courses

251. **Elementary Mineralogy:** an introduction to mineralogy, including crystallography, blow-pipe identification and assaying.

4 hours a week: 3 credits.

257. A general introduction to the **Geological Sciences,** with an historical outline of the geological evolution of North America, and significant world features. Description and identification of the important type fossils.

6 hours a 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; descriptive mineralogy of the rock-forming minerals; laboratory practice.

2 lectures, 4 laboratory hours a week: 4 credits.

354. **Economic Geology:** lectures with reading and laboratory work.

2 lectures, 2 laboratory hours a week: 2 credits.

Text-books: Reis, *Economic Geology.*
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 a 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, 3 laboratory hours a week: 3½ credits.

453a. **Introduction to Metallurgical Practice.**

2 lectures a week: 1 credit.

Text-book: Newton, *Introduction to 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, 2 laboratory hours a week: 3 credits.

457b. **History of the Development of the Geological Sciences.**

2 lectures a week: 1 credit.

Text-book: Geikie, *Founders of Geology*.

458. **Seminar:** the study of Canadian mining fields.

2 hours a week: 2 credits.

Geography

35. **Regional Geography:** a systematic approach to the study of the Human Geography of the world. The occupance of man in the major geographic subdivisions of the world is studied from the standpoint of climate, natural vegetation, land forms, soil, mineral resources, hydrography, and location. Special emphasis is placed upon North America and the British Empire.

3 hours a week: 3 credits.

45a. **Geography of Canada:** the geographic bases of human occupance in Canada; geology, land forms, and hydrography; climate; fauna and flora; soils. The regional approach is utilized in discussing the economic, political, and social adjustments to the natural environment. Problem work, in which the extensive Canadiana section of the University Library is utilized, constitutes an important phase of the course.

3 hours a week: 1½ credits.

45b. **Conservation of Natural Resources:** conservation is one of the most vital problems the younger generation will be called upon to solve. This course, although designed for the prospective teacher, is of significance to any Canadian citizen. The topics cover a wide range: the Conservation movement in Canada, soil erosion, irrigation, the agricultural prospect, forest conservation, water supplies and water power, inland waters, floods, minerals, sources of energy, wild life, recreation, the Canadian population prospect, planning for the future, and allied topics. Lectures by the instructor will be supplemented by field trips and by talks by authorities in the various fields.

3 hours a week: 1½ credits.

DEPARTMENT OF GERMAN LANGUAGE AND LITERATURE

University College

N. C. JAMES, PH.D., LL.D.,	Professor Emeritus
R. A. ALLEN, M.A., PH.D.,	Professor
EDWARD TAUBE, M.A., PH.D.,	Assistant Professor
H. K. KALBFLEISCH, M.A.,	Assistant Professor

Assumption College

J. J. SONBERG, B.A., Lecturer
REV. A. J. WEILER, B.A., Lecturer

Ursuline College

MOTHER M. FELICITAS, Instructor

Waterloo College

REV. H. SCHORTEN, D.D., Professor
LOUISE TWIETMEYER, M.A., Professor

Alma College

MRS. HARRIET DOBSON, B.A., Instructor

General Courses

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

3 hours a week: 3 credits.

Text-books: Schinnerer, *Beginning German* (Macmillan).
Hagboldt, *Fabeln* (Heath).
Kästner, *Emil und die Detektive* (Clarke, Irwin).

5. **Preparatory Scientific German:** the elements of German grammar with the reading of easy scientific German. Prescribed for second year honour science students.

3 hours a week: 3 credits.

Text-books: Kalbfleisch, *German Grammar for Science Students.*
Hagboldt, *Fabeln* (Heath).
Fiedler and Sandbach, *First German Course for Science Students* (Oxford).

10. **Intermediate German:** the work of the Upper School or its equivalent is covered.

3 hours a week: 3 credits.

Prerequisite: Middle School German or German 1.

Text-books: Schinnerer, *Continuing German* (Macmillan).
Kolschwitz, *Die Bilderfibel* (Crofts).
Kästner, *Die verschwundene Miniatur* (Heath).
Thoma, *Lausbubengeschichten* (Heath).

20. **Introductory Survey of German Literature:** with a background of history and geography. Grammar, dictation, conversation.

4 hours a week: 4 credits.

Prerequisite: Upper School German or German 10.

Text-books: *Das Nibelungenlied* (Cambridge).
Lessing, *Minna von Barnhelm* (Holt).
Goethe, *The Vicar of Sesenheim* (Holt).
Schiller, *Wilhelm Tell* (Ginn).
Kästner, *Drei Männer im Schnee* (Crofts).
Jordan, *Kultur-Geographie von Deutschland* (Crofts).
Corbett and Eichele, *Classified Revision Exercises in German* (Harrap).

30. **Outline of Modern German Literature:** from Romanticism to the present.

2 hours a week: 2 credits.

Prerequisite: German 20.

Text-books: *The Oxford Book of German Verse.*
Hauff, *Der Zwerg Nase* (Heath).
Kleist, *Prinz Friedrich von Homburg* (Ginn).
Grillparzer, *Weh dem der lügt* (Oxford).
Hebbel, *Agnes Bernauer* (Oxford).
Keller, *Die drei gerechten Kammacher* (Heath).
Mann, *Unordnung und frühes Leid* (Prentice-Hall).

31. **Grammar:** dictation, conversation.

1 hour a week: 1 credit.

Prerequisite: German 20.

Text-book: Stewart, *Graphic Review of German Grammar* (Harper).

35. **Intermediate Scientific German:** the reading of scientific works in German. Prescribed for third year honour science students.

2 hours a week: 2 credits.

Prerequisite: German 5 or Middle School German.

Text-book: Wright, *German Science Reader* (Holt).

39. **German Literature in English Translation:** a survey of German literature for students without a reading knowledge of German. Prescribed for students in the third year of the English Language and Literature course; optional in the General Course, senior group.

1 hour a week: 1 credit.

Text-book: Robertson, *The Literature of Germany* (Home Univ. Lib.).

40. **Outline of Classical German Literature:**

2 hours a week: 2 credits.

Prerequisite: German 30.

Text-books: *The Oxford Book of German Verse.*
Goethe, *Götz von Berlichingen* (Ginn).
Goethe, *Iphigenie* (Ginn).
Goethe, *Faust* (Part I) (Heath).
Schiller, *Kabale und Liebe* (Holt).

41. **Grammar:** prose composition, conversation.

1 hour a week: 1 credit.

Prerequisite: German 31.

Text-book: Mueller, *A Grammar of the German Language* (Part II) (Dent).

45. **Advanced Scientific German:** the reading of scientific works in German. Prescribed for fourth year honour science students.

1 hour a week: ½ credit.

Prerequisite: German 35 or Upper School German.

Text-books: Wild, *An Anthology of Scientific German* (Oxford).
Dörrie, *Triumph der Mathematik.*

Honour Courses

All students in Honour Courses will take comprehensive examinations at the end of their final year, as indicated on page 37 of this Announcement.

290. **German Romanticism:**
3 hours a week: 3 credits.
Prerequisites: Junior Group 4, see page 60.

291. **Grammar:** conversation, free composition.
1 hour a week: 1 credit.
Prerequisites: Junior Group 4, see page 60.
Text-book: Stewart, *Graphic Review of German Grammar* (Harpers).

390. **German Realism:**
3 hours a week: 3 credits.
Prerequisite: German 290.

391. **Grammar:** conversation, free composition.
2 hours a week: 2 credits.
Prerequisite: German 291.
Text-book: Cochran, *Practical German Review Grammar* (Prentice-Hall).

393. **History of the German Language:** elements of Middle High German grammar, readings in M. H. G. lyric.
1 hour a week: 1 credit.
Text-books: Diekhoff, *The German Language* (Oxford).
Wright, *Middle High German Primer* (Oxford).

460a. **Medieval German Literature:**
2 hours a week: 1 credit.
Prerequisite: German 393.
Text-books: Wenckebach, *Meisterwerke des Mittelalters* (Heath).
Der Nibelunge Not (Sammlung Göschen Nr. 1.).
Eschenbach, *Parzival* (Sammlung Göschen Nr. 921).

460b. **Contemporary German Literature:**
2 hours a week: 1 credit.
Prerequisite: German 390.

480. **German Classicism:**
3 hours a week: 3 credits.

481. **Grammar:** conversation, phonetics, free composition.
2 hours a week: 2 credits.
Prerequisite: German 391.
Text-books: Vietor, *German Pronunciation* (Reisland, Leipzig).
Joynes-Meissner, *A German Grammar* (Heath).

Courses Leading to the Degree of M.A.

Advanced work in German philology, literature, philosophy.

DEPARTMENT OF HEBREW

University College

REV. C. C. WALLER, M.A., D.D., Professor

The object of the course in Hebrew is chiefly to provide instruction for 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*, last 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 a 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 a 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 a 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 a week: 3 credits.

Prerequisite: Hebrew 30.

Honour Courses

230. 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 a week: 4 credits.

340. 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 a week: 4 credits.

Prerequisite: Hebrew 230.

400. Exercises in grammar, syntax, pointing and composition: sight translation; the *Psalms* not previously read.

3 hours a week: 3 credits.

Prerequisite: Hebrew 340.

401. Aramaic; Brown, *Aramaic Methods, Parts I, II;* exercises, grammar, syntax, pointing, composition.

3 hours a week: 3 credits.

Prerequisite: Hebrew 340.

DEPARTMENT OF HISTORY

University College

A. G. DORLAND, M.A., PH.D., F.R.S.C.,	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.,	Assistant Professor
REV. M. A. GARLAND, M.A.,	Assistant

Assumption College

REV. A. J. DENOMY, PH.D.,	Lecturer
REV. V. L. KENNEDY, M.A., L. ès L., D.Arch.,	Lecturer
REV. H. MALLON, B.A.,	Lecturer
SISTER M. ROSALIE, M.A.,	Lecturer
SISTER M. ELIZABETH-TERESA, M.A.,	Lecturer

Ursuline College

M. M. FRANCIS CLARE, M.A.,	Professor
M. M. MERCEDES, M.A.,	Associate Professor

Waterloo College

HANNAH M. HAUG, M.A.,	Professor

25. **History of England to 1713:** economic and social developments will be stressed; lectures, prescribed reading and essays. First term covers to 1485.

2 hours a week: 2 credits.

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

30a. **Medieval History:** lectures, prescribed reading and essays.

3 hours a week: 1½ credits.

Text-book: Stephenson, *Medieval History* (Harper).

30b. **The Renaissance and the Reformation:** lectures, prescribed reading and essays.

3 hours a week: 1½ credits.

Text-book: Lucas, *The Renaissance and the Reformation* (Harper).

31. **History of Canada:** lectures, prescribed reading and essays. A survey of the History of Canada from the beginning of the French Régime to the present time.

2 hours a week: 2 credits.

Text-book: Wittke. *History of Canada* (Longmans).

40a. **Modern History (1555-1830):** lectures, prescribed reading and essays. The period from 1555 to 1648 will be covered only to outline the proper background for the Treaties of Westphalia, which provides the setting for modern European History. The French Revolution and the era of Napoleon will be studied as a part of the revolutionary developments of the modern world which made the eighteenth century a sort of half-way house between mediaeval times and the present.

3 hours a week: 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).
Shepherd, *Atlas of Medieval and Modern History* (Holt).

40b. **Modern History (1830-1930):** lectures, prescribed reading and essays. The growth of nationalism and democracy in Europe; political and social reform; scientific, social and economic movements; the colonial and commercial expansion of the European nations as the background of the World War; the peace settlements; international conditions after the World War.

3 hours a week: 1½ credits.

Text-books: Schapiro, *Modern and Contemporary European History* (Houghton Mifflin) or
Hayes, *A Political and Cultural History of Modern Europe, 1830-1935, Vol. II.*
Robinson and Beard, *Readings in Modern European History, Vol. II* (Ginn).
Shepherd. *Atlas of Medieval and Modern History* (Holt).

43a. **The Development of Self-Government in the British Empire-Commonwealth:** lectures, prescribed reading and reports. The lectures will be grouped under the following heads: The breakdown of the old Colonial System and Policy; British Colonial Policy at the beginning of the Nineteenth Century; the Colonial Reformers and the application of their ideas to Canada and to Australasia; the evolution of self-government in Canada, Australasia, South Africa and India; the growth of colonial nationalism and autonomy, culminating in the achievement of Dominion status; the constitution of the Dominion of

Canada, of the Australian Commonwealth, of the Union of South Africa, of the Irish Free State and of India.

3 hours a week: 1½ credits.

Text-books: Robinson, *Development of the British Empire.*
Egerton, *Federations and Unions in the British Empire.*
Egerton, *Short History of British Colonial Policy.*
Egerton, *British Colonial Policy in the 20th Century.*
Scott, *Short History of Australia.*
Fairbridge, *History of South Africa.*
Currey, *British Colonial Policy.*

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 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 a 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 a week: 1½ credits.

Text-book: Ferguson and Brunn, *A Survey of European Civilization* (Houghton, Mifflin).

46b. **Modern History:** a rapid survey course of Continental Europe from the Wars of Religion to the Peace Settlement following the World War (1648-1925).

3 hours a week: 1½ credits.

Text-book: See History 45a.

Honour Courses

230a. **Mediaeval History:** lectures, prescribed reading and essays.

3 lectures, 1 seminar and conference hour a week: 1½ credits.

Prerequisite: Junior Group 3, see page 60.

Text-book: Stephenson, *Medieval History* (Harper).

230b. **The Renaissance and the Reformation:** lectures, prescribed reading and essays.

3 lectures, 1 seminar and conference hour a week: 1½ credits.

Prerequisite: Junior Group 3, see page 60.

Text-books: Hulme, *The Renaissance and the Reformation* (Century).
Lucas, *The Renaissance and the Reformation* (Harper).

257. **Ancient Civilizations:** the Near East, Greece and Rome.

3 lectures, 1 conference hour a week: 3 credits.

Textbook: Laistner, *A Survey of Ancient History* (Heath).

340a. **Modern History (1555-1830):** 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 a week: 1½ credits.

Prerequisites: History 230a, 230b.

Text-books: Hayes, *A Political and Cultural History of Modern Europe, 1600-1830, Vol. I* (Macmillan).
Robinson and Beard, *Readings in Modern European History, Vol. I* (Ginn).

340b. **Modern History (1830-1930):** 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 a week: 1½ credits.

Prerequisite: History 230a, 230b.

Text-books: Hayes, *A Political and Cultural History of Modern Europe, 1830-1935, Vol. II.*
Robinson and Beard, *Readings in Modern European History, Vol. II.*

344. **History of the United States:** see History 44; prescribed for students of the third year in the Honour Course in History; lectures, prescribed reading and essays.

2 lectures, 1 seminar and conference hour a week: 2 credits.

351. **History of Canada:** a survey of the History of Canada from the beginning of the French Régime 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;* works on economic history, and standard biographies.

3 hours a week, lectures and seminars: 2 credits.

443a. **The Development of Self-Government in the British Empire-Commonwealth:** 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 a week: 1½ credits.

452. **English Constitutional History to the end of the Seventeenth Century:** lectures, prescribed reading 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; economic and social background of constitutional development.

2 lectures, 1 seminar and conference hour a week: 2 credits.

Text-book: Stephenson and Marcham, *Sources of English Constitutional History* (Harpers).

453b. **Colonial and British Imperial History:** the Old Colonial System of Spain, Portugal, France and the First British Empire; the Dependent British Empire of today, colonial possessions, crown colonies

and mandates in the Near East, Asia, Tropical Africa, Indian Ocean, the Far East and the West Indies; modern Colonial Empires, development, policy and problems of administration.

3 lectures and 1 seminar hour a week: 1½ credits.

Text-book: Lucas, *The Historical Geography of the British Empire* (Oxford).

455. **British Political Parties:** readings, lectures and 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; the Labour-Socialist Party.

3 hours a 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.

The hours and credits to be assigned 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 begun.

553. **Colonial America and the Development of Independent Nations in the Americas:** a reading and seminar course for advanced students who have the necessary prerequisite courses, or for graduate students. Some of the following topics will be studied: the discovery of the Americas; the beginnings of Spanish, Portuguese, Dutch and British Colonies in the New World; Colonial America; the American Revolution; the founding of the Hispanic-American Nations; Tropical and Carribean Spanish America; the international relations of Hispanic-America.

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.

DEPARTMENT OF HOME ECONOMICS

Ursuline College

LORNA M. S. DAVIS, M.A., Professor

Alma College

MARION KERR, B.Sc., Instructor
NORA A. BRADLEY, B.A., Instructor

25ax. **Household Administration:** a study of the general principles of home construction, including discussions of such subjects as choice of sites, exterior and interior house designs, materials, cost of dwelling, etc. Systematic housekeeping, budgets, cost, efficiency and care of household equipment. Practical problems and scrapbook required.

2 hours a week: 1 credit.

26bx. **Physiology:** a lecture course dealing in an elementary way with the cells, tissues, organs and systems that make up the human organism; digestion and assimilation of food in the body; nutritional requirements of man in health and disease. Practical problems, papers, etc.

2 hours a week: 1 credit.

30x. **Clothing:** a brief outline of the history of textiles from their earliest known use. A study of each of the fibres used in the manufacture of our present-day fabrics, to include their structure, properties, spinning, weaving, and finishing processes. Examination of the various weaves and their wearing qualities. Adulteration of fabrics with tests for adulteration.

The practical work consists of the drafting of simple patterns, and the use of commercial patterns. Each student is required to make a book of sample seams, seam finishes, hems, facings, etc.; underwear, a white cotton smock, wool skirt; a simple Christmas gift. Essays required and also one article of clothing without assistance.

1 lecture and 3 laboratory hours a week: 2½ credits.

32x. **Foods and Nutrition:** a study of the composition, manufacture, food value, and economic selection of various food materials. The general processes of cooking and the scientific principles underlying them. Food service, menu planning, attractive methods of preparation and arrangement of food. Essays and practical problems required.

1 lecture and 3 laboratory hours a week: 2½ credits.

40x. **Clothing:** principles and processes of household methods of laundering and of stain removal; practical guides to the intelligent choice and care of textiles for personal and home use; hygiene of clothing, clothing selection and clothing budgets; a brief outline of the history of costume.

The practical work consists of a wool dress; an evening dress; a spring coat or suit; a knitted or crocheted article. Essays required and also one article of clothing without assistance.

1 lecture and 3 laboratory hours a week: 2½ credits.

42x. **Foods and Nutrition:** a study of food materials continued. Food preservation, advanced cookery, preparation and serving of meals for special occasions, student demonstrations. Attention is given to the application of nutrition principles to the feeding of individuals and groups of various ages and conditions of health. Essays and problems required.

1 lecture and 3 laboratory hours a week: 2½ credits.

43ax. **Interior Decoration:** design and its application to the interior of the house. Colour theory and its application to ceiling, walls, floor, etc. Proportion, harmony, rhythm and balance as applied to pieces of furniture or assembled furniture. Part of this course is devoted to a study of period furniture. Scrap book and practical problems required.

2 hours a week: 1 credit.

44bx. **Home Nursing:** instruction is given in the location, ventilation, furnishing, temperature and care of the sick room, and simple home care of the sick with underlying reasons for necessary technique. Emergencies, first aid and simple bandaging.

Emphasis is placed on the laws of hygiene and the *importance* of bodily health. Essays and practical problems required.

2 hours a week: 1 credit.

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-books: Eversley, *Domestic Relations, 1937.*
C. E. D. (Ontario) Vol. 5, pp. 588-693, and pp. 755-830, and supplements.

Statutes: *Infants Act, R.S.O. 1937*, c. 215.
Children's Maintenance Act, 1937, c. 213.
Children of Unmarried Parents Act, R.S.O. 1937, c. 217.
Children's Protection Act, R.S.O. 1937, c. 312.
Legitimation Act, R.S.O. 1937, c. 216.
Dependents' Relief Act, 1937, R.S.O., c. 214.
Marriage Act, R.S.O., 1937, c. 207.
Married Women's Property Act, R.S.O. 1937, c. 209.
Deserted Wives and Children's Maintenance Act, R.S.O. 1937, c. 211.
Matrimonial Causes Act, 1937, c. 208, including amendments thereto.

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: Masten and Fraser, *Company Law of Canada.*
In addition to the statutes dealt with in the Text, the following should be read:
The Companies Information Act, 1937, c. 253.
The Securities Act, 1937, c. 265.

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 43.

DEPARTMENT OF LIBRARY SCIENCE

University College

CATHERINE CAMPBELL, B.A., — Instructor

Assumption College

ELEANOR BARTEAUX, — Lecturer
REV. E. G. LEE, B.A., — Lecturer

Ursuline College

REV. T. J. MCCARTHY, M.A., S.T.D., — Lecturer

Waterloo College

B. MABEL DUNHAM, B.A., — Lecturer

10a. **The Use of Books and Libraries:** lectures and exercises on the use and arrangement of the card catalogue, standard reference books, bibliography, periodicals and periodical indexes. 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 a week: ½ credit.

Text-book: Campbell and Welling, *Library Science for Canadians.*

31b. **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 a week: 2 credits.

Text-book: Campbell and Welling, *Library Science for Canadians.*

DEPARTMENT OF MATHEMATICS AND ASTRONOMY

University College

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
H. DOWKER, PH.D.,	Instructor

Assumption College

REV. J. P. RUTH, B.A.,	Professor
A. NASSOTTI, B.SC.,	Lecturer
SISTER M. ELIZABETH-TERESA, M.A.,	Lecturer

Ursuline College

MOTHER M. FRANCIS CLARE, M.A.,	Instructor

Waterloo College

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

10a. **Introductory Mathematics:** a survey of the elements of algebra, geometry and trigonometry and their relations to the sciences, to the arts, to philosophy and to knowledge in general.

3 hours a week: 1½ credits.

Prerequisite: Middle School Mathematics.

12b. **Analytic Geometry:** the point, straight line, circle, parabola, ellipse, with an introduction to the hyperbola; application to curve of flight and to reflectors.

3 hours a week: 1½ credits.

Prerequisite: Upper School Algebra or Mathematics 10a.

Text-book: Durrant and Kingston, *A New Course in Analytic Geometry* (Macmillan).

18a. **Plane Trigonometry:** the following sections in the text: 1-162, 169-173, 195-199, 207-212.

2 hours a week: 1 credit.

Prerequisite: Mathematics 10 or Upper School Algebra.

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

20b. **Algebra:** mathematical induction, determinants of second and third orders and their application to the solution of systems of equations; methods of solving numerical equations, introduction to probability and statistics.

2 hours a week: 1 credit.

Prerequisite: Mathematics 10a, or Upper School Algebra.

22a. **Analytic Geometry:** the Cartesian co-ordinate system, graphs, the straight line, circle, parabola, ellipse and introduction to hyperbola.

2 hours a week: 1 credit.

Prerequisite: Mathematics 10a, 12b or Upper School Algebra and Geometry.

Text-book: Lennes and Merrill, *Plane Analytic Geometry* (Harper).

24. **Calculus:** elements and practical applications.

2 hours a week: 2 credits.

Prerequisite: Mathematics 10a, 12b or Upper School Algebra and Geometry.

Text-book: Granville. Smith and Longley, *Elements of the Differential and Integral Calculus* (Ginn).

28b. **Spherical Trigonometry:** duality of theorems relating to spherical triangles, cosine, polar cosine, sine, cotangent, half-angle and half-side formulae; Delambre's and Napier's proportions; formulae for spherical excess; derivation of formulae for plane triangles from those of spherical triangles; Napier's rules of circular parts; solution of spherical triangles; applications to problems in geodesy.

2 hours a week, half term: ½ credit.

Prerequisite: Mathematics 18a, or Upper School Algebra and Trigonometry.

Text-book: *Mimeographed notes on Spherical Trigonometry.*

29. **Descriptive Astronomy:** a survey course covering: 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 and models. This course is not mathematical. Given in alternate years; offered in 1939-40.

2 hours a week: 2 credits.

Text-books: Duncan, *Astronomy* (Harper).
Kingston, *An Easy Pocket Star-Guide for Beginners.*

Honour Courses

250a. **Algebra:** determinants; undetermined co-efficients; recurring series, continued fractions, indeterminate equations of first degree, introduction to group theory.

3 hours a week: 1½ credits.

Prerequisites: Mathematics of Junior Group 1, see page 59.

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

252a. **Analytic Geometry:** a continuation of Mathematics 22a, along with an introduction to plane analytic projective geometry.

3 hours a week: 1½ credits.

Prerequisites: Mathematics of Junior Group 1, see page 59.

Text-book: Magee, *A First Course in Plane Analytic Projective Geometry.*

254a. **Differential Calculus:** successive differentiation; maxima and minima of f(x); points of inflection; 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 a week: 1½ credits.

Prerequisites: Mathematics of Junior Group 1 (see page 59.)

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 a week: 1 credit.

Prerequisites: Mathematics of Junior Group 1 (see page 59.)

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

261b. **Synthetic Solid Geometry.**

2 hours a week: 1 credit.

Prerequisites: Mathematics of Junior Group 1 (see page 59.)

262b. **Analytic Solid Geometry.**

2 hours a week: 1 credit.

Prerequisite: Mathematics 250a.

264b. **Integral Calculus:** integration as inverse of differentiation and as the limit of summation; methods of integration; reduction formulae; applications.

3 hours a week: 1½ credits.

Prerequisite: Mathematics 254a.

Text-book: Granville, Smith and Longley, *Elements of the Differential and Integral Calculus* (Ginn).

351a. **Synthetic Plane Geometry:** geometry of the triangle and circle, forming a natural sequel to the classical plane geometry of the secondary schools. The course consists of a study of homothetic polygons and circles; similar figures in general; circle of similitude; coaxal systems of circles; circular inversion; Ptolemy's theorem; triangle and quadrangle theorems; Casey's power theorem; circles of antisimilitude; poles and polars; the polar circle; the Miquel theorem; pedal triangles and circles; the Simson line; theorems of Ceva and Menelaus, with applications; the nine-point circle; triangles in perspective.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250a-264b.

Text-book: Johnson, *Modern Geometry* (Houghton Mifflin).
Reference: Altshiller-Court, *College Geometry* (Johnson).

353a. **The Mathematics of Finance.**

2 hours a week: 1 credit.

Prerequisites: Mathematics 250a-264b.

Text-book: Rietz, Crathorne and Rietz, *Mathematics of Finance* (Holt).
Reference: Todhunter (revised by Simmonds and Thompson), *Text-Book on Compound Interest and Annuities-Certain* (Cambridge).

354a. **A First Course in Differential Equations:** differential equations of first order; singular solutions; applications; linear equations with constant coefficients.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250a-264b.

Text-book: Murray, *Differential Equations* (Longmans).

355b. **Probability and Statistics.**

2 hours a week: 1 credit.

Prerequisites: Mathematics 250a-264b.

Text-books: Hall and Knight, *Higher Algebra* (Macmillan).
Gavett, *First Course in Statistical Method* (McGraw-Hill).

358b. **Spherical Trigonometry and Mathematical Astronomy:** same as Mathematics 28b, with the addition of the following: astronomical triangle; relation between mean solar and sidereal intervals of time; relation between sidereal time and mean solar time at any instant; corrections to observed altitudes; determination of latitude, time, and azimuth of a mark; problems from O.L.S. examinations in astronomy.

2 hours a week: 1 credit.

Prerequisites: Mathematics 18a, 359a.

Text-books: *Mimeographed Notes on Spherical Trigonometry.*
Hosmer, *Practical Astronomy* (Third Edition, Wiley).
The American Nautical Almanac for 1940 (Eastern Science Supply Co.).

359. **Descriptive Astronomy:** topics of Mathematics 29, treated in detail. Given in alternate years: offered in 1939-40.

2 hours a week: 2 credits.

Text-book: To be determined.

362b. **Metric Differential Geometry of Curves and Surfaces:** the fundamentals of differential geometry of curves in three-dimensional space, making use of the algebra of vectors; curves and surfaces associated with a space curve; an introduction to differential geometry of general surfaces.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250a-264b.

References: Graustein, *Differential Geometry* (Macmillan).
Eisenhart, *Differential Geometry* (Ginn).

364b. **A Second Course in Differential Equations:** linear equations with variable coefficients; exact differential equations; inte-

gration in series; equations of second order; equations with more than two variables; partial differential equations.

2 hours a week: 1 credit.

Prerequisite: Mathematics 354a.

Text-book: Murray, *Differential Equations* (Longmans).

450a. **Higher Algebra:** linear forms, matrices, linear transformations; bilinear forms; unified treatment of Hermitian and quadratic forms; theorems on rank of a symmetric or Hermitian matrix.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250a-264b.

Text-book: Dickson, *Modern Algebraic Theories* (Sanborn).

452a. **Analytic Projective Geometry:** a continuation of Mathematics 252a.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250a-264b.

Text-book: *Mimeographed Notes.*
Reference: Graustein, *Introduction to Higher Geometry* (Macmillan).

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 a week: 1 credit.

Prerequisites: Mathematics 250a-264b.

Text-book: Freeman, *Actuarial Mathematics* (Cambridge).

455a. **Advanced Statistics:** an extension of Mathematics 355b with special attention to methods of graduation.

2 hours a week: 1 credit.

Prerequisites: Mathematics 355b.

456a. **Theory of Functions of a Real Variable.**

3 hours a week: 1½ credits.

Prerequisites: Mathematics 250a-264b.

457. **History of Mathematics.**

1 hour a week: 1 credit.

References: Cajori, *A History of Mathematics* (Macmillan).
Sandford, *A Short History of Mathematics* (Houghton Mifflin).
Bell, *Men of Mathematics* (Simon and Schuster).

462b. **Higher Plane Curves:** fundamentals of higher plane curves; multiple points; poles and polars; Joachimsthal's method of investigating multiple points; class of a curve; the effect of a multiple point on the class of a curve; tangential equation of a curve; inflection points; properties of the Hessian curve; inverse curves; pedal curves; reciprocal polar curves.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250a-264b.

References: Ganguli, *The Theory of Plane Curves, Vol. I* (University of Calcutta Press).
Salmon, *Higher Plane Curves.*
Williamson, *Differential Calculus* (Appleton).

463a. **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 a week: 1 credit.

Prerequisites: Mathematics 353a, 355b, 453a.

Text-books: Rietz, Crathorne and Rietz, *Mathematics of Finance* (Holt).
Spurgeon, *Life Contingencies* (Macmillan).

464b. **Advanced Calculus:** selected topics.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250a-264b.

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

466b. **Theory of Functions of a Complex Variable.**

3 hours a week: 1½ credits.

Prerequisites: Mathematics 250a-264b, 456a.

Reference: Townsend, *Functions of a Complex Variable* (Holt).

473b. **Actuarial Science:** an extension of Mathematics 463a.

2 hours a week: 1 credit.

Prerequisite: Mathematics 463a.

Text-book: 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.**
553. **Advanced Actuarial Science.**
554. **Elliptic Integrals.**
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, PH.D.,	Assistant Professor
A. H. JOHNSON, PH.D.,	Instructor
G. H. STEVENSON, M.B.,	Lecturer
LEOLA E. NEAL, M.A.,	Assistant

Assumption College

REV. E. C. GARVEY, M.A., PH.D.,	Lecturer
REV. W. J. ROACH, B.A.,	Lecturer
W. C. DWYER, M.A.,	Lecturer

St. Peter's College

REV. J. H. POCOCK, B.A.,	Professor
REV. F. J. BRENNAN, S.T.L.,	Associate Professor
REV. T. W. FLANNERY, S.T.D.,	Associate Professor
RT. REV. L. M. FORRISTAL, B.A.,	Associate Professor
REV. L. A. WEMPLE, B.A., L.PH.,	Instructor

Waterloo College

J. A. RIKARD, M.A., B.D.,	Professor

Huron College

REV. K. E. TAYLOR, M.A., B.D.,	Lecturer

NOTE. Students taking courses which include laboratory work will be required to make a deposit of two dollars to cover supplies and breakages. Any surplus will be refunded at the end of the college year.

Philosophy

30. **Introduction to Philosophy:** the chief problems of philosophy and 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 a 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.

3 hours a week: 3 credits. (At Waterloo College, 2 hours a week: 2 credits.)

31a. **Methods and Principles of Thinking:** this course provides an analysis of Reflective Thinking as it is employed in the solving of practical and theoretical problems. Alternatives to Reflective Thinking are discussed. The structure of logical argument is noted. Fallacies in argument are considered. Reference is made to scientific methods of discovery and verification.

2 hours a week: 1 credit.

31bx. **Methods and Principles of Thinking:** the contents of this course will be the same as that of 31a. Offered in Waterloo College only.

2 hours a week: 1 credit.

32ax. **Ethics:** 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 a week: 1 credit.

Text-books: Mackenzie, *Manual of Ethics.*
Sidgwick, *History of Ethics.*
Keyser, *General Ethics.*

33b. **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.

2 hours a week: 1 credit.

33x. **Social Ethics:** introduction to basic ethical teachings; fundamental sociological facts and concepts in a moral setting; the social problems confronting modern man. Offered at Assumption, Huron and Ursuline Colleges.

2 hours a week: 2 credits.

Text-books: Murray, *Social Ethics.*
Ross, *A Survey of Sociology.*

37. **Greek Philosophy:** a critical study of the contributions made to Western Culture by Plato, Aristotle, the Stoics and the Epicureans. This course provides an introduction to Greek theories of Politics, Art, the Good Life, Science, Ancient discussion of "modern" problems will be emphasized. Relevant source material will be used.

2 hours a week: 2 credits.

37x. **History of Ancient and Mediaeval Philosophy:** the history of (1) Greek, Roman and Patristic periods, (2) Mediaeval Philosophy and Scholasticism. Offered at Ursuline College.

2 hours a week: 2 credits.

42. **Ethics:** a critical study of the various standards used in judgments concerning right and wrong; contemporary moral problems will be emphasized.

2 hours a 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. Emphasis will be placed upon the concepts of God, prayer, evil, freedom, immortality.

2 hours a week: 1 credit.

47. **Modern Philosophy:** a brief survey of Mediaeval Philosophy; development of Western Philosophy from the Renaissance to the twentieth century; relevant source material will be used.

2 hours a week: 2 credits.

47x. **History of Modern Philosophy:** the transition from Mediaeval to Modern Philosophy; Modern Philosophy.

At Assumption College, 3 hours a week: 3 credits.

At Ursuline College, 2 hours a week: 2 credits.

Honour Courses

Offered in University College only.

230. **Introduction to Philosophy:** identical with 30.

231a. **Methods and Principles of Thinking:** identical with 31.

250b. **Introduction to Ethics:** a brief survey of moral problems and ethical theories.

2 hours a week: 1 credit.

337. **Greek Philosophy:** identical with 37.

343b. **Philosophy of Religion:** identical with 43b.

347. **History of Modern Philosophy:** identical with 47.

442. **Ethics:** identical with 42.

450. **Principles and Problems of Philosophy:** philosophical problems related to the special interests of the members of the class will be discussed.

1 hour a week: 1 credit.

451. **Seminar in Greek Philosophy.**

1 hour a week: 1 credit.

452. **Seminar in Modern Philosophy.**

2 hours a week: 2 credits.

453. **Seminar in Contemporary Philosophy.**

1 hour a week: 1 credit.

458. **Contemporary Philosophy:** a critical study of contemporary tendencies in Logic, Epistemology, Theory of Value and Metaphysics.

2 hours a week: 2 credits.

Psychology

In University College, Psychology 20 or 36 is prerequisite to all other courses in psychology.

20. **Introduction to Psychology:** 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; a brief introduction to social, abnormal and applied psychology. Lectures, prescribed reading and essays.

3 hours a week: 3 credits.

20aN. **General Psychology:** a survey of the important phases of psychology; for students registered in the course for nurses.

3 hours a week: 1½ credits.

35. **Experimental Psychology I:** an elementary course introducing the student to standard laboratory techniques in psychology. Processes of sensation, perception, motor adjustment, emotion, aesthetic judgment are examined. Parallel readings will be prescribed.

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

35x. **Experimental Psychology:** learning processes, individual differences, statistical procedure. Offered at Assumption College.

3 lecture hours, 1 laboratory hour a week: 3 credits.

Text-book: Gruender, *Experimental Psychology.*

36. **Genetic Psychology:** individual and racial characteristics; native equipment; motor, perceptual and language development prior to school age; problems of habit training; parent-child relationship. Some emphasis will be placed upon relevant physiological processes.

2 hours a week: 2 credits.

36x. **Genetic and Educational Psychology:** the origin and development of instincts, percepts, ideas, reason and volition, together with the moral development of the child. The characteristics of infancy, childhood and adolescence are studied in conjunction with the learning process. Offered at Assumption College.

2 hours a week: 2 credits.

Text-book: Kelly, *Educational Psychology.*

37b. **Statistical Methods:** an introduction to statistical methods applied to Psychology and Economics; graphical methods and tabulation; frequency distributions; measures of central tendency; measures of variability; probability; the normal curve; correlation—linear, non-linear, partial and multiple; reliability and validity; analysis of time series, index numbers. (Given jointly with department of Economic and Political Science.)

3 hours a week: 1½ credits.

38a. **Mental Tests:** the history, theory and construction of mental tests, the nature of intelligence.

3 hours a week: 1½ credits.

38b. **Experimental Psychology II:** investigation of the learning process and the factors involved therein.

1 lecture, 2 laboratory hours a week: 1 credit.

39. **Clinical Problems in Mental Hygiene:** the clinical approach to mental hygiene; the development of Mental Health Clinics; mental testing; behaviour problems; factors promoting mental health. Field practice: observation, mental testing, case studies.

2 hours a week: 2 credits.

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 a week: 1 credit.

44. **Systematic Psychology:** a 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 a week: 2 credits.

46a. **Applied Psychology:** educational. The applications of psychology to the problems of education; the learning process; behaviour problems in the school situation; student placement and progress; achievement tests; curricular problems; deviations in educational development; appraisal of teaching efficiency.

2 hours a week: 1 credit.

46b. **Applied Psychology:** business and professional. Personnel work; vocational selection and guidance; training of workers; labour relations; advertising; salesmanship. Application of psychology to medicine, law, the ministry, politics, aesthetics. General problems of human adjustment.

2 hours a week: 1 credit.

48. **Abnormal Psychology:** in the first term the emphasis will be upon minor mental deviations, in the second term upon major mental diseases. The course will include a consideration of abnormal activities in sensation, perception, memory, emotion, thought and behaviour; a discussion of mental deficiency; a study of psychopathic personalities; an examination from the point of view of psychology of the causes, symptoms and treatment of the psychoses. Among the topics considered will be spiritism, telepathy, hypnosis and psycho-analysis. Wherever possible, cases illustrating special symptoms will be presented.

2 hours a week: 2 credits.

49b. **Social Psychology:** the activities of living beings in response to their social environment. The social setting and psycholo-

gical 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 a week: 1 credit.

Honour Courses

Offered in University College only.

235. **Experimental Psychology I:** identical with 35, but with additional assignments.

336. **Genetic Psychology:** identical with 36, but with additional assignments.

337b. **Statistical Methods:** identical with 37b.

338a. **Mental Tests:** identical with 38a.

338b. **Experimental Psychology II:** identical with 38b.

339. **Clinical Problems in Mental Hygiene:** identical with 39, but with additional field practice.

343a. **Psychology of Religion:** identical with 43a.

444. **Systematic Psychology:** identical with 44.

446a. **Applied Psychology:** identical with 46a.

446b. **Applied Psychology:** identical with 46b.

448. **Abnormal Psychology:** identical with 48.

449b. **Social Psychology:** identical with 49b.

455. **Experimental Psychology III:** an advanced course in which each student will select some topic for special investigation.

1 lecture or seminar, 4 laboratory hours a week: 3 credits.

Honour Courses

Offered in Assumption College only.

250x. **General Psychology:** a philosophical examination of the nature of the animate world, reference being made to the results of experimental psychology. Principles of life, nature of vegetative life, nature of cognition, sense and intellectual cognitive and appetitive powers, nature of intellectual soul, union of soul and body in man, origin of human soul.

3 hours a week: 3 credits.

Text-book: Phillips, *Modern Thomistic Philosophy* (Vol. 1).
References: St. Thomas, *Summa Theologica.*
Brennan, *General Psychology.*

251x. **Formal Logic:** the three operations of the mind; the idea; the term; various kinds of idea; definition; division; categories and predicables; judgment; the proposition, various kinds, their nature and division; reasoning: deductive and inductive; the syllogism; rules, modes and figures; the use of the syllogism; fallacies.

2 hours a week: 2 credits.

Text-book: Maritain, *Introduction to Logic.*

252x. **Introduction to Philosophy and Philosophy of Nature:** nature of philosophy; philosophy and the special sciences; philosophy and theology; main divisions of philosophy; problems in the philosophy of nature; mechanism; matter and form theory; quantity; place and space; nature of motion; time; substantial changes in chemical compositions.

2 hours a week: 2 credits.

Text-books: Maritain, *Introduction to Philosophy.*
Phillips, *Modern Thomistic Philosophy* (Vol. I).

257x. **History of Philosophy:** Greek Philosophy; Oriental Philosophy; the progress of Greek thought from its birth among the Ionians to Aristotle; the Post-Aristotelian Philosophy; Graeco-Oriental Philosophy.

3 hours a week: 3 credits.

Text-books: Bréhier, *Histoire de la Philosophie.*
William Turner, *History of Philosophy.*
References: Burnet, *Greek Philosophy.*
Windelband, *History of Philosophy.*
Maritain, *Introduction to Philosophy.*
Thilly, *History of Philosophy.*
Ross, *Aristotle.*
Works of Plato and Aristotle.

351x. **Epistemology and Ontology:** problems of epistemology, nature of truth, skepticism, rationalism, moderate intellectualism, problem of the object of the intellect, being and intelligibility, hierarchy of the sciences, problems of ontology, essence, individual nature and matter, substance and accident, act and potentiality, first principles, transcendental attributes of being.

3 hours a week: 3 credits.

References: Bittle, *The Domain of Being.*
Phillips, *Modern Thomistic Philosophy.*
Maritain, *The Degrees of Knowledge.*
Simon, *Introduction à l'Ontologie du Connaître.*
Maritain, *Seven Lessons on Being.*
St. Thomas, *Summa Theologica.*
St. Thomas, *Commentary on Aristotle's Metaphysics.*
Aristotle, *Metaphysics.*

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 a week: 3 credits.

Text-book: Farrell, *Companion to the Summa* (Vol. II).

353x. **Political Philosophy:** a detailed study of the nature of and function of the state and of the nature of law. A brief study of the history of political philosophy.

3 hours a week: 3 credits.

References: St. Thomas, *De Regimine Principium; Summa Theologica.*
Coker, *Readings in Political Philosophy.*
McIllwaine, *The High Court of Parliament.*
Leo XIII, *Encyclical on the State.*

357x. **History of Philosophy:** Mediaeval from Plotinus to Occam; Plotinus and St. Augustine; Arabian, Jewish and Scholastic Philosophy; decline of Scholastic Philosophy.

3 hours a week: 3 credits.

References: Pegis, *History of Mediaeval Philosophy.*
DeWulf, *History of Philosophy.*
McKeon, *Mediaeval Philosophers.*
Gilson, *Spirit of Mediaeval Philosophy.*
Gilson, *Reason and Revelation.*

450x. **Theodicy:** proof of the existence of God; the divine attributes; the immanent operations of God; the transient operations of God; the unicity of God; creation.

3 hours a week: 3 credits.

Text-books: St. Thomas, *Summa Theologica; In Boetium de Trinitate.*
Phillips, *Modern Thomistic Philosophy.*
Garrigou Lagrange, *God.*

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 a week: 3 credits.

Text-book: Haas, *Man and Society.*
References: Papal Encyclicals:
Vann, *Morals Makyth Man.*
Mounier, *Personalist Manifesto.*

453x. **Problems in Philosophy:** a seminar study of modern problems in the light of Thomistic principles; pragmatism; idealism; positivism; capitalism; fascism; communism and education.

2 hours a week: 2 credits.

457x. **History of Philosophy:** modern from Occam.

3 hours a week: 3 credits.

Textbook: Thilly, *History of Philosophy.*
References: Robinson, *Anthology of Modern Philosophy.*
Gilson, *Unity of Metaphysical Experience.*
Maritain, *The Three Reformers; True Humanism.*
Rand, *Modern Classical Philosophers.*

Offered in St. Peter's College.

250x. **Elementary Psychology:** sensation; perception; imagination; instinct; memory; sensuous appetites and feelings; intellect; in-

tellect and sense; intellectual cognition; theories of conception; process of intellectual development; rational appetite; necessary voluntary acts; free acts; emotions and sentiments.

3 hours a week: 3 credits.

Text-books: S. A. Lortie, *Elementa Philosophiae Christianae.*
Warren and Carmichael, *Elements of Psychology.*
Barbedette and Farges, *Philosophia Scholastica.*

251x. **Formal Logic:** the three operations of the mind; the idea, the term; various kinds of idea; definition; division, categories and predicables; judgment; the proposition, various kinds, their nature and division; reasoning: deductive and inductive; the syllogism; rules, modes and figures; the use of the syllogism; fallacies.

2 hours a week: 2 credits.

Text-books: S. A. Lortie, *Elementa Philosophiae Christianae.*
Barbedette and Farges, *Philosophia Scholastica.*

257x. **History of Philosophy:** Greek Philosophy; 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 a week: 2 credits.

Text-book: William Turner, *History of Philosophy.*
References: Burnet, *Greek Philosophy.*
W. T. Stace, *A Critical History of Greek Philosophy.*
Windelband, *History of Philosophy.*
Ueberweg, *A History of Philosophy.*

351x. **Metaphysics: Logic, Defence of First Principles.**

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: a survey of certain facts and various theories in Physics and Chemistry; a preliminary consideration of the properties of material bodies; the intrinsic constitution of physical substances; a critical refutation of Mechanism and of Dynamism as cosmological theories; the philosophy of quantity, quality, movement, time, space, and body; the philosophy of Physics and of Chemistry.

Criticism or Defence of Knowledge: nature and existence of certain truth which is objective and based on evidence; the real value of the senses, internal consciousness and intellect; the value of authority in obtaining knowledge.

5 hours a week: 5 credits.

Text-books: L. de Raeymaker, *Metaphysica Generalis.*
S. A. Lortie, *Elementa Philosophiae Christianae, Vol. II.*
Barbedette and Farges, *Philosophia Scholastica.*
References: D. Nys, *Cosmologie.*
Bittle, *Reality and Mind.*

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 a week: 3 credits.

Text-books: S. A. Lortie, *Ethica et Philosophia Moralis.*
S. J. Cronin, *Science of Ethics.*
Barbedette and Farges, *Philosophia Scholastica.*

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 a week: 3 credits.

Text-books: M. De Wulf, *History of Mediaeval Philosophy.*
William Turner, *History of Philosophy.*
References: E. Gilson, *Etudes de Philosophie Médiévale.*
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 a week: 5 credits.

Text-books: S. A. Lortie, *Elementa Philosophiae Christianae, Vol. II.*
Barbedette and Farges, *Philosophia Scholastica.*

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 a week: 3 credits.

Text-books: S. A. Lortie, *Elementa Philosophiae Christianae, Vol. III.*
Barbedette and Farges, *Philosophia Scholastica.*
Papal Encyclicals.

457x. **History of Philosophy:** Modern: from Descartes to the present; the Idealistic Movement; German Transcendentalism; Evolutionism; Positivism; Rationalism; Pragmatism.

3 hours a week: 3 credits.

Text-books: Joseph Marechal, *Precis d'Histoire de la Philosophie Moderne.*
Turner, *History of Philosophy.*
References: Rand, *Modern Classical Philosophers.*
Windelband, *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
L. H. DAVIES, B.Sc., B.P.E.,	Assistant Director
MARY BARKER, D.P.E.,	Instructor
DORIS WESTON, B.A., D.P.E.,	Assistant
A. H. REEKIE,	Student Assistant

Alma College

RHODA E. GREGORY, D.P.E.,	Instructor

Assumption College

REV. C. ARMSTRONG, B.A.,	Instructor
EDNA VERONICA GAULIN, B.A.,	Instructor

Ursuline College

EUNICE JEAN THOMAS, D.P.E.,	Instructor

Waterloo College

CONRADINE SCHMIDT,	Student Assistant

COURSES FOR WOMEN

Enrolment in a Physical Education course is required for students in the first and second years. First year students, in addition, are required to attend lectures in health education. Two hours a week, actual participation, is the minimum for students taking physical education for credit in any year.

The fall program is conducted out-of-doors and includes instruction in archery, golf, riding, soccer, tennis and swimming at the Y.M.C.A. pool. Occasionally hikes, deck tennis, baseball or volleyball are substituted for regular classes.

The winter program offered includes instruction in badminton, basketball, correctives, folk dancing, gymnastics, hockey, swimming, tap dancing. Skating and skiing are extra-curricular activities for which no credit is given nor responsibility taken.

Uniform: A uniform costing approximately $5.00 is required. It is ordered through the University at registration.

10. **General Physical Education:** prescribed for all women in the first year.

2 hours a week: 1 credit.

20. **General Physical Education:** prescribed for all women in the second year.

2 hours a week: 1 credit.

Prerequisite: Physical Education 10.

30-40. **Advanced Physical Education:** optional for women of the third and fourth years.

2 hours a week; each year: 1 credit each year.

Prerequisite: Physical Education 10, 20.

First Aid to the Injured: open to women in all years.

Evening lectures for seven weeks. Credit given for successful completion.

1 hour a week: ½ credit.

COURSES FOR MEN

A student may elect one from each of the following Autumn and Winter groups, 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, swimming, gymnastics, military training (C.O.T.C.), badminton, first aid, fencing.

11. **Physical Education:** required of all men in the first year: one elective autumn activity and one elective winter activity.

2 hours a week: 1 credit.

First Aid to the Injured: a winter option in 11; elementary and advanced courses, seven lectures each, with an examination for Certificate in St. John Ambulance Association.

1 hour a week: ½ credit.

Text-book: *St. John Ambulance Hand Book.*

21. **Physical Education:** required of all men in the second year: one elective autumn activity and one elective winter activity.

2 hours a 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; one elective autumn activity and one elective winter activity.

2 hours a week, each year: 1 credit each year.

Theory of Physical Education: a winter option in 31, 41. History and principles of physical education; organization and administration of the physical department.

1 hour a week: ½ credit.

Military Training: an option in 11, 21, 31, 41. Lieutenants' and captains' certificates may be obtained by examinations conducted

by the staff of the Imperial War Office. The certificates are standard throughout the British Empire.

First Year: Elementary theory and preliminary practical training.

Second Year: Theoretical and practical training leading 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 a week; **Practical,** 2 hours a 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 Defence, Information, Movements by Land and Sea, Quarters, Messages, Orders and Appreciations and Topography. The medical company will receive special lectures.

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

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.,	Associate Professor
A. M. I. A. W. DURNFORD, M.A., PH.D.,	Assistant Professor
*R. G. ELSON, M.A.,	Senior Demonstrator
G. A. WOONTON, M.A.,	Research Assistant and Demonstrator
DOROTHY BENNETT ELSON, M.A.,	Assistant
W. P. HALFNIGHT, B.A.,	Demonstrator
E. C. LONGHURST, B.A.,	Demonstrator
W. SMITH, B.A.,	Demonstrator
F. W. PYE,	Instrument Maker

Assumption College

VERY REV. T. A. MACDONALD, M.A.,	Professor
REV. F. S. RUTH, B.A.,	Lecturer

*On leave, 1938-39.

Waterloo College

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

Alma College

RUTH E. STEWART, B.A., Instructor

All students taking laboratory work in Physics must make a deposit of five dollars to the Bursar to cover breakage. Any surplus will be refunded at the end of the college year.

10. **Mechanics and Heat:** a survey prescribed for students intending to major in some branch of science: 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, 2 laboratory hours a week: 3 credits.

Text-book: Anderson, *Mechanics and Heat.*
References: Duncan and Starling, *Dynamics.*
Duncan and Starling, *Heat.*

11. **Physical Science:** lectures, demonstrations, laboratory exercises and tutorial groups, designed (1) to present an historical review of the development of the physical sciences, with emphasis on principles rather than facts; (2) to develop some of the practical applications of physical science in the modern world; (3) to outline the present trends in science and to explain the point of view of science toward some of the problems of human existence. Optional in Junior Groups 2, 3, 4 and in the Senior Group.

4 class hours a week, allotted at the discretion of the staff: 3 credits.

Textbook: Richards, *The Universe Surveyed.*

21. **Advanced Survey Course:** supplementary to Physical Science 11.

2 lectures, 3 laboratory hours a week: 3½ credits.

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. courses.

2 lectures, 3 laboratory hours a week: 1½ credits.

Text-books: Saunders, *A Survey of Physics.*
Valasek, *Light.*

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. courses.

2 lectures, 3 laboratory hours a 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 a 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.

3 laboratory hours a 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 courses.

1½ lecture hours, 3 laboratory hours a week: 2½ credits.

Text-books: Robertson, *Introduction to Physical Optics.*
Valasek, *Light.*

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 courses.

1½ lecture hours, 3 laboratory hours a week: 2½ credits.

Text-book: Hutchinson, *Intermediate Text-book of Electricity and Magnetism.*

350. **Vector Mechanics:** an introduction to vectors and their applications to the dynamics of a particle.

3 lectures a week: 3 credits.

Text-book: Loney, *Dynamics of a Particle.*
Reference: Edwards, *Analytic and Vector Mechanics.*

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 a week: 3 credits.

Text-book: Newman and Searle, *The General Properties of Matter.*

354. **Geometrical and Physical Optics:** an advanced treatment of theoretical and applied optics.

2 lectures, 6 laboratory hours a week: 5 credits.

Text-books: Hardy and Perrin, *Principles of Optics.*
Jenkins and White, *Fundamentals of Physical Optics.*

355a. **Electrostatics and Magnetism:** a mathematical treatment of the phenomena of static electricity and magnetism.

2 lectures a week: 1 credit.

Text-book: Page and Adams, *Principles of Electricity.*

360. **Vector Mechanics:** similar to Physics 350, but with the addition of laboratory work in the first term.

3 lectures a week throughout the year, 3 laboratory hours a week in the first term: 3½ credits.

Reference: Starling, *Mechanical Properties of Matter.*

364. **Geometrical and Physical Optics:** similar to Physics 354, but with less laboratory work.

2 lectures, 3 laboratory hours a 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 a week: 1 credit.

453. **Thermodynamics:** a treatment of the laws of thermodynamics, heat engines, reversible cycles, radiation, energy distribution.

2 lectures a week: 2 credits.

Text-book: Birtwistle, *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 a week: 2 credits.

Text-book: Page and Adams, *Principles of Electricity.*

456. **Recent Advances in Physics:** selected topics, with outside reading, including conduction through gases, measurement of electronic charge, radioactivity, positive ray analysis, atomic theory.

2 lectures a 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 a week: 1 credit.

459. **Laboratory Course:** designed as an accompaniment to the lecture work of the fourth year. Emphasis is laid upon individuality of work and resourcefulness. As far as possible, training is given in research methods.

9 laboratory hours a 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 a week: 2 credits.

506. **Atomic Physics:** offered as a minor option to graduate students in other branches of science.
2 lectures a week: 2 credits.

551. **Theory of Relativity:** 2 lectures a week.

553. **Theory of Thermal Radiation:** 2 lectures a week.

554. **Quantum Theory of Line Spectra:** 2 lectures a week.

555. **Electrodynamics:** 4 lectures a week.

556. **X-Rays and Crystal Structure:** 2 lectures a week.

557. **Atomic and Molecular Structure.**

558. **Seminar.**

559. **Research.**

DEPARTMENT OF RELIGIOUS KNOWLEDGE

Alma College

EDNA SPARLING, B.A.,	Instructor

Assumption College

REV. J. DONLON, B.A.,	Lecturer

Ursuline College and St. Peter's College

RT. REV. A. P. MAHONEY,	Professor

Waterloo College

REV. F. B. CLAUSEN, D.D.,	Professor
REV. C. H. LITTLE, B.A., S.T.D., D.D.,	Professor
REV. J. A. RIKARD, M.A., B.D.,	Professor

Huron College

REV. C. C. WALLER, M.A., D.D.,	Professor
REV. F. ANDERSON, M.A., D.D.,	Professor
REV. R. R. LATIMER, M.A.	Lecturer
REV. K. E. TAYLOR, M.A., B.D.,	Lecturer
REV. A. A. TRUMPER, L.TH.,	Lecturer

Huron College

For courses offered in Huron College, see pages 165-167.

Offered at Assumption College only.

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 a week: 2 credits.

Text-book: St. Thomas, *Compendium Theologiae.*

21x. **Religious Knowledge:** the dogmatic and moral teachings of the Catholic Church: Grace, the Sacraments, Christian morality, basis of morality, duties towards God, duties towards our neighbour, capital and labour. Lectures and prescribed reading.

2 hours a week: 2 credits.

Text-book: Knox, *The Belief of Catholics.*

30x. **Apologetics:** lectures and prescribed reading. De vera religione; religion in general; revealed religion; Divinity of the Christian religion.

2 hours a week: 2 credits.

Text-book: Tanquerey, *Synopsis Theologiae Dogmaticae, Vol. I.*

31x. **An Introductory Course on the Bible:** inspiration; methods of interpretation; canonics; Biblical history.

1 hour a 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 a week: 2 credits.

Text-book: St. Thomas, *Summa Theologiae, Vol. I.*

41x. **Church History:** 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 a 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 and St. Peter's Colleges.

10x. **Christian Doctrine:** Faith, Grace; the Divine Essence; the Blessed Trinity; the creation; the Incarnation; the Redemption; the sacramental system; Eschatology. Lectures, prescribed New Testament readings and essays.

2 hours a week: 2 credits.

Text-books: *The New Testament.*
Sheehan, *Catholic Doctrine.*

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SUMMARY OF REGISTRATION IN FACULTY OF ARTS
1938-39

Year in Course	University College	Alma College	Assumption College	Huron College	Ursuline College	Waterloo College	Totals
Full Time:							
First	195	3	177	.....	18	17	410
Second	164	2	37	.....	29	5	237
Third	102	.....	26	4	23	9	164
Fourth	159	.....	36	4	23	11	233
Graduate	17	.....	4	.....	.....	.....	21
Part Time:							
Graduate	17	.....	2	.....	2	.....	21
Undergraduate	22	1	36	1	2	30	92
							1,178
Extramural	327	.....	.....	.....	.....	.....	327
Summer School	439	.....	.....	.....	.....	.....	439
Extension	487	.....	.....	.....	.....	.....	487
TOTALS	1,253	676	6	318	9	97	72	2,431
Duplicates	.....	.....	.....	.....	.....	.....	.....	309
Faculty of Arts								**2,122**
Faculty of Medicine								**216**
Faculty of Public Health								**26**
University Total								**2,364**

REGISTRATION IN FACULTY OF ARTS
1928-29—1938-39

Year	University College	Alma College	Assumption College	Huron College	Ursuline College	Waterloo College	Duplicates	Net Total
1928–29	787	4	66	20	87	19	71	912
1929–30	900	.....	92	19	91	29	86	1,045
1930–31	942	5	116	19	89	35	112	1,094
1931–32	1,128	.....	101	23	111	54	141	1,276
1932–33	1,332	8	189	26	85	58	204	1,494
1933–34	1,299	6	231	26	78	97	227	1,510
1934–35	1,340	15	324	25	115	76	239	1,656
1935–36	2,067	6	345	20	112	105	425	2,230
1936–37	2,400	6	345	21	111	68	587	2,364
1937–38	2,037	10	304	15	121	68	420	2,135
1938–39	1,929	6	318	9	97	72	309	2,122