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 1943-1944

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★ CALENDAR FOR 1943 ★

JANUARY

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CALENDAR OF FACULTY OF ARTS

1943

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

August 16, Monday.....Supplemental examinations begin.

September 18, Saturday.....Registration day for second, third and fourth year students from London.
9-1 o'clock

September 20, Monday.....Registration day for all Freshmen.

September 21, Tuesday.....Registration day for second, third and fourth year students from centres other than London.
Orientation lectures for first-year students.

September 22, Wednesday.....Lectures begin. Late registration penalty of seven dollars (including five dollars for late physical examinations).

September 29, Wednesday.....Last day of registration except on penalty of eight dollars (including five dollars for late physical examination).

October 6, Wednesday .....Last day of registration for full-time students and for M. A. candidates.

October 11, Monday.....Thanksgiving Day, holiday.

October 22, Friday.....Prize Day Exercises: Autumn Convocation.

December 18, Sat. 1 p.m......Christmas vacation begins.

December 27, Monday.....Lectures resume.
Last day for submitting outlines for M. A. theses.

1944

January 3, Monday.....Midyear examinations begin.

January 15, Saturday.....First term ends.

January 17, Monday.....Second term begins; second term fees due.

January 20, Saturday.....Last day for payment of second term fees, except on penalty of one dollar.

April 7, Friday.....Holiday.

April 15, Saturday.....M.A. and LL.B. theses due in Registrar's Office.
Lectures for second term close.

April 17, Monday.....Second term examinations begin.

May 17, 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
MR. W. L. DUFFIELD,	*Board of Governors*
DR. A. S. DUNCAN, M.L.A.,	*Lieutenant-Governor-in-Council*
MR. ARTHUR R. FORD,	*Board of Governors*
MR. FRANK FORRISTAL, K.S.G.,	*Lieutenant-Governor-in-Council*
MR. J. B. HAY,	*London City Council*
LIEUT.-COL. GORDON INGRAM,	*London City Council*
MR. A. T. LITTLE,	*Board of Governors*
MR. JAMES A. MCNEVIN, K.C.,	*Lieutenant-Governor-in-Council*
MR. A. E. SILVERWOOD,	*London City Council*
COL. J. E. SMALLMAN,	*London City Council*
MR. C. F. STEVENS,	*Board of Governors*
MR. H. W. STRUDLEY,	*Lieutenant-Governor-in-Council*

Officers of the Board

MR. A. T. LITTLE,	Chairman
LIEUT.-COL. GORDON INGRAM,	Vice-Chairman
COL. W. J. BROWN,	Secretary

The Senate

(1942-1944)

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 M. K. INMAN,	*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,	*Council of Huron College*
PRINCIPAL A. H. O'NEIL,	*Council of Huron College*
ACTING DEAN C. F. KLINCK,	*Faculty of Waterloo College*
PROFESSOR R. J. E. HIRTLE,	*Faculty of Waterloo College*
PRINCIPAL P. S. DOBSON,	*Faculty of Alma College*
PRESIDENT V. J. GUINAN,	*Faculty of Assumption College*

REV. J. S. MURPHY,	*Faculty of Assumption College*
RIGHT REV. A. P. MAHONEY,	*Faculty of St. Peter's College*
REV. J. H. POCOCK,	*Faculty of St. Peter's College*
MOTHER M. ST. JAMES,	*Faculty of Ursuline College*
REV. J. A. COOK,	*Faculty of Ursuline College*
MR. P. L. MCMANUS,	*Graduates of Assumption College*
VEN. ARCHDEACON W. J. DOHERTY,	*Graduates of Huron College*
DR. E. LOUGHLIN,	*Graduates of Ursuline College*
REV. A. W. LOTZ,	*Graduates of Waterloo College*
DR. R. J. GORDON,	*Graduates in Public Health*
MR. FRANK FORRISTAL, K.S.G.,	*Board of Governors*
DR. A. S. DUNCAN, M.L.A.,	*Board of Governors*
REV. CANON W. A. TOWNSHEND,	*London Board of Education*
REV. J. A. FEENEY,	*London Separate School Board*
DR. L. S. HOLMES,	*City Council of London*
DR. W. J. STEVENSON,	*City Council of London*
MR. E. J. CARTY,	*City Council of London*
MR. R. A. SANDERS,	*City Council of St. Thomas*
MR. H. B. GALPIN,	*City Council of Sarnia*
DR. W. V. HARCOURT,	*City Council of Guelph*
REV. F. W. SCHAFFTER,	*City Council of Brantford*
MR. W. N. SEXSMITH,	*City Council of Chatham*
MR. L. WHEELTON,	*City Council of Windsor*
MR. A. L. MCDOUGALL,	*County Council of Middlesex*
MR. DUNCAN MUNN,	*County Council of Bruce*
MR. GORDON NEWELL,	*County Council of Elgin*
MR. N. W. MILLER,	*County Council of Huron*
MR. HAROLD GIBB,	*County Council of Lambton*
DR. G. H. JOSE,	*County Council of Perth*
MR. E. P. HODGINS,	*Principals, Secondary Schools*
MR. E. A. MILLER,	*Principals, Secondary Schools*
MR. D. S. FULLER,	*Principals, Secondary Schools*
MR. C. G. YORKE,	*Principals, Secondary Schools*
DR. HARVEY ROBB,	*Western Ontario Conservatory of Music*

Officers of the Senate

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

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, St. Peter's College, Huron College, Waterloo College.

UNIVERSITY OFFICERS OF ADMINISTRATION

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

Visitor

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

Chancellor

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

LL.D., 1926. 1929

President

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

B.A., McMaster, 1900; M.A., *ibid.*, 1906; Ph.D., Johns Hopkins, 1911; F.R.S.C., 1922; D. Litt. McMaster, 1923; LL.D., Queen's, 1929, 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

J. W. CRANE, M.B., 871 Hellmuth Ave.

M.B., Toronto, 1898. 1912

Dean of Women

ADA DOROTHY TURVILLE, M.A., PH.D., Oxford St., West
B.A., 1917; M.A., Columbia, 1921; Ph.D., *ibid.*, 1925, F.A.G.S., 1943. 1924

Associate Registrar

HELEN MILDRED ALLISON, M.A., 1014 Wellington St.
B.A., 1924: M.A., Minnesota, 1941. 1924

Assistant Registrar

OLGA ALICE MILLER, B.A., 222 Broughdale Ave.
B.A. 1928. 1938

Assistant Librarians

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

JAMES JOHN TALMAN, M.A., Ph.D., 957 Maitland St.
B.A., 1925; M.A., 1927; Ph.D., Toronto, 1930. 1939

Honorary Curators of the Museum of Indian Archaeology

MR. A. H. JURY and MR. WILFRID JURY.

Administrative Council

PRESIDENT FOX, *Chairman;* DEANS CAMPBELL, NEVILLE, SLACK, TURVILLE; ASSOCIATE PROFESSOR F. STILING, *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.

PHYSICAL EXAMINATIONS

A physical examination (including a chest X-ray) by practising physicians under the supervision of the Department of Physical Education is required of students, men and women, of all years. Both the medical examination and the X-ray will be free if they are taken at

the time of registration. Students who have not been examined and X-rayed during this prescribed period will be required to pay **Five Dollars** for late examinations and X-rays.

STUDENT HEALTH INSURANCE

The scheme of health insurance was designed and is operated for the benefit of the students. Its first purpose is to protect any student whose academic year or college course may be jeopardized financially 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 (including the chest X-ray) for the current year (see page 10).

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 physicians of that department.

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

WAR SERVICE COURSES

For the duration of the war for **all** students in University College War-Service Courses have been prescribed.

For **Men** these courses, requiring at least 6 hours a week, consist of military training in either the C. O. T. C. or the reserve, or the U. A. T. C. or the U. N. T. D. On these courses students get credit also for Physical Education 11, 21, 31 or 41, according to the year of registration (see page 149).

For **Women** these courses, requiring at least 2 hours a week, include First Aid, Emergency Nursing, Technical Training in Physics, in Chemistry and in Military Training (for C. W. A. C.). No credit for Physical Education can be secured for any of this work. It is non-credit.

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 two 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

Since sound learning is impossible without sufficient good books, the library has an important place in a university. There are three libraries at the University of Western Ontario, each of which comes under the central administration of the University Library Board. The three divisions follow the Library of Congress system of classification. The main collection of books, amounting to 132,000, is housed in the Lawson Memorial Library, erected in 1934. The Medical School Library contains more than 27,000 volumes. The library of the Institute of Public Health is maintained as a working collection of books and journals and contains about 1,200 volumes. Thus the combined libraries contain more than 160,000 volumes.

Although this is a fairly large collection and compares favourably in point of numbers with other university libraries in Canada, number of volumes is not the best criterion of a library's value. It would be quite possible to have 150,000 volumes, not one of which would be of value to undergraduate or graduate students; or to have the same number of valuable books made almost unusable because of lack of space in which to consult them. The books on the shelves, their accessibility and condition, the policy of selection, the numbers of current literary and scientific journals, and the reading-room accommodation must also be taken into account. In these particulars the University libraries rank high. Few volumes are on the shelves without a good reason. Books purchased are subject to a rigorous selection policy which takes into account both immediate and prospective value. Reading-room accommodation is adequate at the Medical School, and in the main library there is reading-room space for nearly three hundred students; there are also forty carrels for advanced and graduate students, who may secure permits to enter the stacks on the recommendations of their professors. In an effort to make the collections usable, every student in his first year 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.

It is impossible for a University library to make exhaustive collections of all kinds of printed material. However, in some respects the libraries of the University of Western Ontario are outstanding. The main library is conspicuously rich in Canadiana, Americana, and books relating to Shakespeare. The nucleus of this material came as a gift in 1918 from the late Dr. John Davis Barnett. There are also important

newspaper files, and a large collection of early agricultural journals, as well as printed and manuscript sources of the social and religious history of Canada. The Medical School library is particularly rich in medical journals and has an extensive collection in the field of medical history.

Students may also have access to the comprehensive and well chosen collections of the London Public Library if they make application. A new modern library building was opened in the autumn of 1940.

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; Doctor of Letters.
2. Degrees by examination: Bachelor of Arts (B.A.); Bachelor of Science (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 Public 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.).

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 will not be possible in 1943-44.

For further details consult the Registrar.

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

FACULTY OF ARTS

Faculty Council

Chairman, THE PRESIDENT

Secretary, THE ASSOCIATE REGISTRAR

DEAN K. P. R. NEVILLE,	*Faculty of University College*
PROFESSOR F. LANDON,	*Faculty of University College*
PRESIDENT V. J. GUINAN,	*Faculty of Assumption College*
REV. J. S. MURPHY,	*Faculty of Assumption College*
MOTHER M. ST. JAMES,	*Faculty of Ursuline College*
MOTHER M. ROSANNA,	*Faculty of Ursuline College*
RT. REV. A. P. MAHONEY, D.P., V.G.,	*Faculty of St. Peter's College*
REV. J. H. POCOCK,	*Faculty of St. Peter's College*
ACTING DEAN C. F. KLINCK, PH.D.,	*Faculty of Waterloo College*
PROFESSOR R. J. E. HIRTLE,	*Faculty of Waterloo College*
PRINCIPAL A. H. O'NEIL. B.A., B.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
W. B. HARVEY, M.A., LL.B., PH.D.,

Director of Summer School and Extramural Department
H. R. KINGSTON, PH.D., F.R.A.S.

Director of Extension Department
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J. A. GUNTON, PH.D., F.C.I.C.

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For Officers of Instruction, see pp. 17-30.

Alma College

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Assumption College

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Holy Names College

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For Officers of Instruction, see pp. 17-30.

Officers of Instruction

Session 1942-1943

(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., 1932; J.C.B., Catholic Univ. of America, 1937; J.C.L., Angelicum, Rome, 1938. 1939

KENNETH GRANT CRAWFORD (C), *Lecturer in Municipal Affairs*
1016 Colborne St.
B.A., 1924; M.A., 1926; City Clerk, London. 1937

(MRS.) DOROTHY CUMMING, (Alma), *Lecturer in Biology*
67 Metcalfe St., St. Thomas
B.Sc., Minnesota, 1940. 1942

WILLIAM LESTER DAVIS (C), *Lecturer in Business Administration*
Apt. 2, 210 Huron St.
B.A., 1930; M.A., 1941; C.A., 1939. 1942

REV. ALEXANDER JOSEPH DENOMY (A), *Lecturer in English and History*
B.A., 1923; M.A., Toronto, 1929; Ph.D., Harvard, 1934. 1935

ELEANORE CATHERINE DONNELLY U), *Lecturer in Library Science*
344 Grosvenor St.
B.A., 1939; B.L.S., Toronto, 1941. 1941

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

SISTER M. ELECTA (A), *Lecturer in English*
Holy Names College
B.A., Queen's, 1914; M.A., *ibid.*, 1922; Dean, Holy Names College. 1934

SISTER M. ELIZABETH-TERESA (A), *Lecturer in History*
Holy Names College
B.A., Queen's, 1927; M.A., 1935. 1934

SISTER M. FRANCIS EDWARD (A), *Lecturer in Spanish*
Holy Names College
B.A., 1933. 1941

MILDRED GLIDDEN (Alma), *Instructor in English*
B.A., Toronto, 1935. 1942

AUDREY GRAY (C), *Assistant in English*
B.A., 1940. 1942

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

SISTER M. ISABEL OF CARMEL (A), *Lecturer in Science*
Holy Names College
B.A., 1941. 1941

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

MARK LAFRAMBOISE (A), *Lecturer in Mathematics*
B.A., Ottawa, 1942. 1942

REV. FERGUS JOSEPH LAVERTY (P), *Lecturer in Mathematics*
B.A., 1930. 1942

(MRS.) HELEN HUGHES LIDDELL (A), *Lecturer in Classics*
310 Giles Blvd., E., Windsor
B.A., Toronto, 1935. 1940

GEORGE ROSS LOVE (C), *Demonstrator in Physics*
293 Huron St.
B.A., 1941. 1941

JOHN DONALD MCALPINE (C), *Demonstrator in Chemistry*
53 St. George St.
B.A., 1942. 1942

FLORA MACLENNAN MACLEOD (C), *Assistant in English*
545 St. George St.
B.A., Alberta, 1938; M.A., *ibid.*, 1939; B.L.S., Toronto, 1942. 1942

REV. HENRY EDWIN MERIFIELD (H), *Lecturer in Apologetics*
Ingersoll, Ont.
B.A., 1926; B.D., 1937. 1941

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

MARGARET MULLIN (U), *Lecturer in Economics*
304A King St.
B.A., 1939; M.S.W., Loyola (Chicago), 1941. 1942

REV DANIEL JOSEPH MULVIHILL (A), *Lecturer in History*
B.A., 1937. 1942

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

REV. LIONEL ABRAM NELLES (H), *Lecturer in Greek*
Huron College
B.A., 1939; Dean of Residence, Huron College. 1941

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

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

(MRS.) ELINOR HIGGINS OLLERHEAD (C), *Demonstrator in Botany*
301 Huron St.
B.A., 1929. 1942

REV. MAXWELL BAILEY PARKER (H), *Lecturer in Old Testament*
B.A., 1928; B.D., 1935; M.A., Columbia, 1940. 1941

WARREN CHARLES PATTENDEN (C), *Demonstrator in Chemistry*
1018 Frances St.
B.A., 1942. 1942

JOHN RICHARD POLLEY (C), *Demonstrator in Chemistry*
223 Bernard St.
B.A., 1942. 1942

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

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

MARY SHIRTON (U), *Assistant in Physical Education*
D.P.E., Margaret Eaton, 1942. 1942

MARY CATHERINE SMYTH (C), *Demonstrator in Psychology*
292 Victoria St.
B.A., 1942. 1942

GEORGE HERBERT STEVENSON (C), *Lecturer in Psychology*
Ontario Hospital
M.D., Toronto, 1918; F.A.P.A.; Diplomate, American Board of Psychiatry and Neurology. 1937

REV. CHARLES EDWARD SULLIVAN (P),
Lecturer in Religious Knowledge and Library Science
St. Peter's Seminary
B.A., 1935. 1939

(MRS.) ELEANOR RIGG SYRETT (C), *Assistant in English*
B.A., 1939. 1941

JAMES J. TALMAN (C), *Lecturer in History*
957 Maitland St.
B.A., 1925; M.A., 1927; Ph.D., Toronto, 1930. 1939

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

SISTER M. VERONICA (A), *Lecturer in Mathematics*
B.A., Queens, 1929. 1942

ROBERT SIMSON WADE (C), *Demonstrator in Chemistry*
200 Huron St.
B.A., 1942. 1942

(MRS.) HILDA GRANT WATSON (C), *Lecturer in Secretarial Science*
45 Mayfair Drive
B.A., 1930. 1942

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

EDMUND WHITTAKER (C),
Visiting Professor of Business Administration and Economics
R. R. 5, London
B.Sc., Edinburgh, 1928; Ph.D., *ibid.*, 1932. 1942

MARGARET MARY WOOLCOTT (A), *Instructor in Physical Education*
Holy Names College
B.A., 1939; M.A., 1941. 1939

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

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."

*Dr. Nicholas Murray Butler, President of Columbia University.

Regulations

ADMISSION

Candidates seeking admission must present to the Registrar, at least two weeks before the opening of the session they wish to attend, an official statement of the marks on which their certificates were awarded. For the evaluation of other than Ontario certificates a fee of $2.00 is charged. This sum must accompany the certificates, and is not returnable.

A. Grade XII Certificates

A candidate will be admitted to the first year of the General Course in Arts on presentation of a Secondary School Graduation Diploma (or the equivalent), showing satisfactory completion of the following Grade XII subjects:

I. English.
History.

II. Latin or Mathematics.

III. Two of: Mathematics.
Latin.
French.
German.
Spanish or Italian.
Greek.
Science or Agriculture.

IV. One of: Home Economics.
Shopwork.
Commercial Work.
*Music.
Art.
Geography.
Option from III not previously chosen.

No Option may be counted more than once.

B. Grade XIII Certificates

A candidate presenting Grade XIII certificates or the equivalent in at least four non-science subjects (not papers), together with the full requirements of A. above, will receive sufficient credit thereon to enable him to reduce the normal length of his course by one year.

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*For the music option either of the following combinations (a or b) of Certificates of the Western Ontario Conservatory of Music will be accepted:

(a) Grade II Senior Practical and Grade II and Grade III Harmony (only);

(b) Grade III Senior Practical and Grade II Theory.

The Grade XIII subjects are:

English (Literature and Composition).
Mathematics (Algebra, Geometry, Trigonometry).
History.
Latin.
Greek.
French.
German.
Spanish.
Italian.
Physical Science (Physics and Chemistry).
Biology (Botany and Zoology).

Examinations in these Grade XIII subjects are conducted by the Department of Education at various centres in the Province of Ontario in June of each year.

A candidate is allowed to write on one or more Grade XIII subjects at a time, in any order.

Percentages

In order to secure First Class Honors in a subject a candidate must obtain at one examination at least seventy-five percent. of the marks assigned to that subject, and at least fifty percent. on each paper of that subject; the minimum for Second Class Honors is sixty-six per cent. and for Third Class Honors sixty per cent., other conditions being the same as for First Class.

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

EQUIVALENT EXAMINATIONS

Certificates of having passed Secondary School subjects parallel to Grade XII or Grade XIII 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 by the University of Cambridge may be accepted instead of Grade XIII (Upper School) standing in the same subjects.

ADVANCED STANDING

From Collegiates.

Candidates presenting Grade XIII certificates in Ancient or Modern Languages, or History, or Mathematics, or the recognized equivalents of such certificates, may be credited with the corresponding subjects in the Junior Groups. For Sciences, see pages 57, 61, 62.

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.

An 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.

REGISTRATION

All students in Arts must register each year in either University College or one of the affiliated Colleges.

Junior Groups

Students presenting either Grade XII or Grade XII and Grade XIII certificates will register in one of the Junior Groups. (See pp. 57, 58)

Grade XIII standing in any subject will exempt a student from the general course of the first year in the same subject (except the sciences), if that subject is included in a Junior Group. (For details of allowances, see page 57).

Senior Group or Honors.

Students who have completed a Junior Group must register either in the Senior Group (page 59) or in an Honor Course for which they have the specific prerequisites. (See pages 64-81).

Medical Examination.

No registration of any student for any year is complete until the prescribed physical examination has been taken (See page 10).

Fees.

Fees, at least for the first term, are payable on the day of registration. An extra fee is charged the student who registers later than the day named for his category (page 5), unless a written request for such delay has been approved by the Registrar.

For fees for extra credits, see page 38.

LENGTH OF COURSES

The General, Home Economics, Secretarial Science and Theological Courses are four-year courses for those entering on Grade XII standing, 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 Grade XIII subjects (eight papers) corresponding to subjects prescribed in the first year of each course (see page 57). The Honor Courses, except as mentioned below, are five-year courses from complete Grade XII standing, or four-year courses from Grade XIII standing in four subjects. The Honor Courses in Philosophy, except in University College, require four years from complete Grade XII (see pages 77-80).

EXAMINATIONS

General Courses.

Regular examinations will be held for the General Arts Courses in January and in April. 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 36). 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.

Honor Courses.

The regular examinations for the Honor Courses will be held in April; but when an Honor Course or a definite portion of an Honor 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 Honor classes in which examinations are not set will continue without interruption during the mid-year examination period.

Candidates in the Honor 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 honor subjects of the fourth year (with no failure on any paper) will entitle the candidate to a General and not an Honor degree. (See page 38).

Students in an Honor Course, who do not obtain at least second class standing in the work of the second year, are recommended not to

continue in Honors. Nobody will be admitted to the fourth year of any Honor Course whose record in the third year was not at least second class.

Comprehensive Examinations.

Students entering Honor 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. Various departments of the University College of Arts have introduced comprehensive examinations for Honor 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 Honor Course. They are additional to the course examinations.

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 Honor 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.

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.

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 37).

Students conditioned at the January or April examinations should attempt to remove their conditions at the supplemental examinations of the next August. If the conditions are not removed the **whole course** must be repeated **in class.**

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 Honor subjects except those offered as options by General Course students to complete the requirements of their courses.

SPECIAL EXAMINATIONS

A special examination is one written at any other than the regular time for the examination in the course involved, January, April or August.

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

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

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.

Honor Course. A candidate in an Honor Course who, at the examination for the degree of Bachelor of Arts, fails to obtain the requisite average for Honors (60), provided he has obtained 50 per cent. in each course of his final year, 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 Honor degree.

English Language. 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.

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 complete admission requirements 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.

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.

The constitution of any proposed club or society must be approved by the Administrative Council before such organization can be recognized.

Teachers' Courses

University College offers under the three departments listed below a series of courses for those who for various reasons find it impossible to attend the winter sessions for all the work necessary for a degree in Arts.

I. 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 32).

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 independent of attendance at classes. Courses in the Sciences (including Psychology), in the elements of any foreign language, and honor courses not also given as pass courses, are not given extramurally. Students pursuing extramural courses are subject to the same regulations about exercises, essays, examinations, etc., as those pursuing intramural courses.

II. SUMMER SCHOOL

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

The subjects offered in the Summer School are taken from the courses of the winter session for General Course students. No Honor

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.

Trois-Pistoles, P.Q.

University College also conducts at Trois-Pistoles, Quebec, an eight weeks' Summer School in French Conversation for English-speaking students and in English Conversation for French-speaking students. The session opens during the first week in July. Information may be obtained from the Registrar or the Director of the French Summer School.

III. 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 or the University 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 Honor Degree in Arts in accordance with the present agreement as prescribed for Specialist qualifications (see page 41); 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 or in Science from a British University, based upon courses approved by the Minister of Education.

II. Specialist Certificates

Subject to the conditions specified below, an Honor 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, English and French, English and Latin, French and German or Spanish, History, Latin and French, Mathematics and Physics, Science.

Each candidate for a Specialist's Certificate must also obtain Honor 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 Honor Courses as defined in the Announcement of the Faculty of Arts for 1943-1944.

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 Honor 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.

The M.A. Degree

Academic Qualifications.

A candidate must be a graduate in Arts or Science of this or some other accredited university. A graduate in an Honor Course must have obtained at least Second Class Honors (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 in those years no more than six credits graded below 60%. He must spend one year in residence raising his standing to that of an Honor 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., or B.Sc., and that their standing in the third and fourth years of their courses corresponds to the standard described in the preceding paragraph.

Graduates of other Faculties may be given special consideration, if their qualifications warrant.

Period of Study. A graduate in an Honor 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. No courses taken by correspondence shall count towards an M.A. degree. 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.

Registration and Course of Study. Each candidate must register not later than October 6th; 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 April 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.

Thesis. The subject of the thesis must lie in that part of his course in which the candidate obtained as an undergraduate at least 66%, if an Honor student, or Grade A, if a General student, in each of the third and fourth years of his course.

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.

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

The LL.B. Degree

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

(a) An Honor 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) Reading courses and examinations in each of the following subjects (see page 129):

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.

Diploma in Public Administration

It is recognized that an increasing number of government posts require a more thorough training and maturity of viewpoint than many undergraduate students will have attained. Students anticipating public service may acquire an understanding of the nature and broad significance of problems of public policy and administration. The courses specified on page 66 will be supplemented by association with able public administrators.

Medals, Scholarships and Prizes

I. Undergraduate

UNIVERSITY

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

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

Governor-General's Medal: Senior Group, 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 F. G. Jewell Scholarship.

[Given in memory of the late Francis G. Jewell, C.A., former Auditor of the University.]

(c) Junior Group 3: the W. J. Roche Scholarship.

[In honor of the late Hon. W. J. Roche, M.D., LL.D., C.M.G., former Chancellor of the University.]

(d) Junior Group 4: the B'Nai Brith Scholarship.

[Given each year by the London Branch of the Order.]

Scholarships: Sixty dollars in cash for each of the following

SECOND YEAR HONOR COURSES:

Business and Secretarial Science;
Chemistry;
Chemistry and Geology;
Chemistry and Physics;
Classics;
English and French;
English and Latin;
French and German or Spanish;
French and Latin;
History;
Philosophy and Psychology;
Social Science;

THIRD YEAR HONOR COURSES:

Business and Secretarial Science;	English and Latin;
Chemistry;	French and German or Spanish:
Chemistry and Geology;	French and Latin;
Chemistry and Physics;	Philosophy and Psychology;
Classics;	Psychology and Philosophy;
English and French;	Social Science.

The Hon. Edward Blake Scholarship, No. 1: Sixty dollars; for Honor Economic and Political Science, Second Year.

The Hon. Edward Blake Scholarship, No. 2: Sixty dollars; for Honor 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 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: Sixty dollars; for Honor Mathematics and Physics, Second Year.

The John Gordon McIntosh Scholarship, No. 2: Sixty dollars; for Honor Physics, Third Year.

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

The Wilhelmina and J. Gordon McIntosh Scholarship, No. 1: Sixty dollars; for Honour Business Administration, Second Year.

The Wilhelmina and J. Gordon McIntosh Scholarship, No. 2: Sixty dollars; for Honour Business Administration, Third Year.

The Wilhelmina and J. Gordon McIntosh Scholarship, No. 3: Sixty dollars; for Honour Geology and Geography, Second Year.

The Wilhelmina and J. Gordon McIntosh Scholarship, No. 4: Sixty dollars; for Honour Geology and Geography, Third Year.

The Wilhelmina and J. Gordon McIntosh Scholarships in Public Speaking: two scholarships of $50 each and two of $25 each are open to all students in the constituent faculties of the University; one fifty-dollar and one twenty-five dollar scholarship will be awarded to men and the other two of the same value to women.

[These Scholarships were bequeathed to the University by the late Wilhelmina Morris McIntosh, of Winnipeg and London.]

The Albert O. Jeffery Scholarship, No. 1: Sixty dollars; for Honor Biology (including B.A., M.D.), Second Year.

The Albert O. Jeffery Scholarship, No. 2: Sixty dollars; for Honor Biology, Third Year.

The Albert O. Jeffery Scholarship, No. 3: Sixty dollars; for Honor Mathematics, Third Year.

[These three Scholarships were bequeathed to the University by the late Mrs. Jeffery as a memorial to her 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: Sixty dollars; for Honor English Language and Literature, Second Year.

William Wyatt Scholarship, No. 2: Sixty dollars; for Honor 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: Sixty dollars; awarded in the autumn to the student registered in the Applied Biology option who stood highest in Third Year Honor 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, London.]

Khaki University and Y. M. C. A. Scholarship: Sixty 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, or the sons and daughters of naturalized British subjects not of French parentage.

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

The Joseph Henry Marshall Scholarship: Sixty dollars; for Honor History, Third Year. Open only to Canadian-born students. To be awarded in 1943-44.

[Bequeathed to the University by Mrs. Amy Marshall as a memorial to her late husband, Joseph Henry Marshall, M.P., to commemorate his interest in all phases of Canadian History.]

Wilhelmina and J. Gordon McIntosh Prizes in Public Speaking: one prize of $25, one of $15, and eleven of $10 each, are open to students registered in English 19, under terms specified by the Scholarship Committee.

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). Given in alternate years, next in 1943-4.

[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:

English 40 or 48;
History 45, 46;
English 30;
French 30;
History 36;
Philosophy 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;
French 10 or German 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 Honor Business Administration and for Honor Economics have been completed.

SUMMER SCHOOL FOR FRENCH AND ENGLISH
TROIS-PISTOLES, QUEBEC

Carnegie Corporation of New York Scholarship for French: Ninety dollars. Applications for this scholarship will be received by the Registrar up to April 1st; the winner will be selected by a special committee.

Board of Governors' Scholarship: Sixty dollars. The winner will be selected by a special committee.

Special Prizes for 1943: (1) Twenty-five dollars: to the student making the most progress in French, as the result of a second session at Trois-Pistoles; donor anonymous.

(2) Twenty-five dollars: to the student making the most progress in English as the result of a second session at Trois-Pistoles; donor anonymous.

Trois-Pistoles Chamber of Commerce Prizes: (1) Fifteen dollars; to be awarded to a student or students of the French Section on the results of work in class and in the final examinations.

(2) Fifteen dollars; to be awarded to a student or students of the English Section on the results of work in class and in the final examinations.

Director's Prize: Ten dollars, for the best speech in English by a member of the English classes.

Hon. Jacob Nicol Prizes: Two prizes, each of Five dollars, for the best speeches in French.

La Coupe du Recteur: Awarded to the student in the French classes whose progress has been outstanding during the summer session.

President's Cup: Awarded to the student in the English classes whose progress has been outstanding during the summer session.

La Croix Cup: French Conversation, open to beginners; awarded on the results of an examination by a local committee not associated with the school.

Provincial Secretary's Prizes: Each year the Provincial Secretary's Department donates a number of volumes.

URSULINE COLLEGE

Brescia Hall Students' Inter-year Residence Scholarship, value $150.00.

Brescia Hall Students' Inter-year Non-residence Tuition Scholarship, value $50.00.

The Sir Philip Pocock Memorial Inter-year Non-residence Tuition Scholarship, value $50.00.

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 November 1st, with the Registrar, from whom application forms may be obtained.

These Scholarships will not be awarded during the war.

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. Not awarded during the war.

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 5th, to the Provincial Educational Secretary, I. O. D. E., 168 Jackson St. W., Hamilton, Ontario, who will provide additional information about the scholarship.

CANADIAN FEDERATION OF UNIVERSITY WOMEN SCHOLARSHIPS

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. Values: Senior Scholarship, $1250; Junior, $700.

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.

III. Admission

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.

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 honor 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. Applicants must be approved by the executive committee of the donors.

2. School attendance during the preceding year is not necessary if the applicants have previously secured the required academic qualifications.

3. Financial need of the candidates will be taken into consideration.

4. A successful candidate may hold his scholarship either in the Faculty of Medicine or in University College, but must have complete entrance requirements of the course he wishes to enter.

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

6. 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.

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 Grade XII or Grade XIII 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. 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).

The award shall be made by a committee of three members who shall be the Registrar of the University, the Director of Physical Education of the University, and a nominee of the Ontario Hockey Association Executive, who may or may not belong to the University. The winner of the Scholarship will receive $100 in cash, one-half in October, the other half in February following; he will receive also $125 tuition a year for four years; total value of the scholarship $600. This scholarship is deferred for the duration of the war.

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 Grade XIII 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 for not 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, London, 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

1. The following scholarships will be awarded on the results of the Grade XIII examinations of 1943.

2. No scholarship will be awarded unless a candidate obtains an average of First Class Honors (75 per cent.) on all the papers involved in the award.

3. Candidates must write all the papers on which an award is based. No credits by "recommendation" will be considered.

4. Each candidate must write at least six papers in order to be eligible for competition for any scholarship.

5. The winners of the scholarships must register in one of the constituent Colleges of the University (University College, the Medical School, the Faculty of Public Health).

6. Scholarships cannot be deferred. Winners must register for a full year's work beginning the academic session following the award.

7. In order to retain the privileges of these scholarships the winners must maintain a satisfactory degree of proficiency from year to year of their courses.

I. **Two General Proficiency Scholarships** awarded on nine papers:

(a) English, Mathematics (any two), History, two foreign languages;

(b) English, Mathematics (Algebra, Geometry, Trigonometry), a language and a science, either Physical (Physics and Chemistry) or Biological (Botany and Zoology).

The winners will receive $100.00 in cash and free tuition (up to $125.00 a year) for four years: Total value of each scholarship, $600.00.

II. **Eight Scholarships** awarded on six papers:

(a) English, Mathematics (any two) and two other papers;
(b) English, French and German or Greek or Latin or Spanish;
(c) French, German or Greek or Latin or Spanish and two other papers;
(d) Mathematics (Algebra, Geometry, Trigonometry), Physics and two other papers;
(e) Physics, Chemistry, Mathematics (any two), and two other papers;
(f) Biology, Mathematics (any two) and two other papers;
(g) Latin, French and German or Greek or Spanish;
(h) English, History, French or German or Greek or Latin or Spanish and one other paper.

The winners of these scholarships will receive $50.00 in cash and free tuition (up to $125.00 a year) for two years: Total value of each scholarship, $300.00.

III. **Scholarships of Free Tuition** (up to $125.00 a year) 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 Honors (75 per cent.) in nine papers of the 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, $250.00.

IV. Scholarships of Free Tuition (up to $125.00) for one year for proficiency in single subjects:

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

URSULINE COLLEGE

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

Seven Residence Scholarships of $150.00 each:

Two for The Josephine Gaukler Memorial;
Two for Mother Mary Clare Gaukler;
Two for The Sir Philip Pocock Memorial;
One for The Elsie P. Williams Memorial.

One Non-residence Tuition Scholarship of $50.00; for the Elsie P. Williams Memorial.

Those wishing to compete for these Scholarships must make application before May 1st. Application forms will be sent on request.

Address Scholarship communications to

THE REGISTRAR, URSULINE COLLEGE,
Brescia Hall,
London, Ont.

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 part-time 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, Summer School, Extension and Extramural, each credit, including examination when written at University College	10 00
Examinations, Supplemental, each paper	5 00
Maximum	15 00
Examinations, LL.B. Course, each paper	20 00
Examinations, at dates other than January, April 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 (including late physical examination) (see also page 5)	$7.00 to 8 00
Undergraduate Certificate of Standing	$1.00 to 3 00
Graduate detailed certificate (after the first two), each	2 00
Athletic Association, each year	6 00
Students' Administrative Assembly Fee, including Concert series, each year	6 00
Students' Health Insurance, each year	10 00
Caution Money (1), each year	5 00
Microscope Rental, each instrument, each year	5 00
Laboratory Fee, each Science, full course	4 00
Half course	2 00
Laboratory Fee, Business Administration, last three years, each	4 00
Laboratory Fee, Home Economics, each course	8 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, Home Economics, Psychology, Zoology, each course	2 00
Degree of B.A. or B.Sc., payable May 1st	10 00
Degree of M.A., or M.Sc., or LL.B., payable May 1st	20 00
Degree of B.D., payable May 1st	24 00
Diploma in Home Economics, payable May 1st	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.

*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:

Annual Registration	$ 25 00		
Tuition	125 00	or	$130 00
Laboratory and Caution Fees	6 00	to	60 00
Athletic Association	6 00		
Student Assembly	6 00		
Health Insurance	10 00		
Caution Fee	5 00		
Board (30 weeks)	210 00	to	300 00
Books and Supplies	50 00	to	75 00
	$443 00	to	$617 00

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 honor courses, between 200 and 299.

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

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

Graduate courses are numbered between 500 and 599.

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 Honor 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 Honor course and finish in three years (see pages 64-81).

II. SECRETARIAL SCIENCE COURSE (see page 59).

III. THEOLOGICAL COURSE (see page 60).

IV. NURSES' COURSE: leading to the degree of Bachelor of Science. (see page 61).

V. HOME ECONOMICS COURSES: leading to a diploma or to the degree of B.A. (see pages 62-63).

For Honor Philosophy in Assumption and St. Peter's Colleges, see pages 77-80.

I. GENERAL COURSE

Requirements for Admission: Secondary School Graduation Diploma (page 32).

In each Junior Group credit will be allowed for certificates in Grade XIII English (10, 11), Mathematics (10, 12, 18), Latin (10), Greek (10), French (10), German (10), History (14), Spanish (10). Certificates of at least third class honors in each of Botany and Zoology will cancel Biological Science 11, and of at least third class honors in each of Physics and Chemistry will cancel Physical Science 11. Credit will not be given for one of the two papers involved. One science course (Biological or Physical) must be taken in the University.

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 Honor Science courses and for Honor Mathematics and Physics.

Subject	*Credits*
English 10, 11, 19, 20, 21 (pp. 111, 112)	7
French 10 or German 10 (p. 158, p. 118)	3
Library Science 10a (p. 130)	½
Mathematics 10, 12, 18, 20, 22, 24, (pp. 131, 132)	8
Botany 10 (p. 82)	3
Chemistry 10 (p. 94)	3
Physics 10 (p. 150)	3
Zoology 10 (p. 86)	3
Physical Education 10 or 11 (pp. 148, 149)	1

JUNIOR GROUP 2

The Honor 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 expecting to take Honor Social Science (page 80) should elect Biological Science 11, and History 20 (instead of Business 20); those who are expecting to take Honor Philosophy and Psychology (page 76) should elect History 20 instead of Business 20.

Subject	*Credits*
English 10, 11, 19, 20, 21 (pp. 111, 112)	7
Library Science 10a (p. 130)	½
Mathematics 10, 12, 18 (any two) (p. 131)	3
Physical Education 10 or 11 (pp. 148, 149)	1
Business 20 (p. 91)	3
Economics 20 (p. 105)	3
Psychology 20 (p. 140)	3
Biological or Physical Science 11 (pp. 82, 151)	3
Two of *German 1, *Greek 1, French 10, German 10, Greek 10, Latin 10, Hebrew 10, Spanish 10, Applied Biology 23, Geology 20, Zoology 20	7 or 6
One of *German 10, *Greek 10, French 20, German 20, Latin 20, Greek 20, Hebrew 20, Spanish 20	3

JUNIOR GROUP 3

This Group is a prerequisite for Honor English Language and Literature, for Honor History, for Honor English and French, and for Honor English and Latin. For these courses, except History, Latin must be elected.

Subject	*Credits*
English 10, 11, 19, 20, 21 (pp. 111, 112)	7
Library Science 10a (p.130)	½
Mathematics 10, 12, 18 (any two), (p. 131)	3
History 14, 20 (p. 123)	6
Biological or Physical Science 11 (pp. 82, 151)	3
Two of *German 1, *Greek 1, French 10, German 10, Greek 10, Latin 10, Hebrew 10, Spanish 10	6
Two of *German 10, *Greek 10, French 20, German 20, Latin 20, Greek 20, Hebrew 20, Spanish 20	6

JUNIOR GROUP 4

This Group is a prerequisite for Honor Classics, French and German (or Spanish), French and Latin. For these courses Latin must be chosen.

Subject	*Credits*
English 10, 11, 19, 20, 21 (pp. 111, 112)	7
Library Science 10a (p. 130)	½
Mathematics 10, 12, 18 (any two), (p. 131)	3
Physical Education 10 or 11 (pp. 148, 149)	1
Biological or Physical Science 11 (pp. 82, 151)	3
Three of *Greek 1, *German 1, French 10, German 10, Greek 10, Latin 10, Hebrew 10, Spanish 10	9
Three of *Greek 10, *German 10, French 20, German 20, Greek 20, Latin 20, Hebrew 20, Spanish 20	9

*For those who have no Grade XII 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 35.

Subject	*Credits*
Psychology 20 or 30 (if either has been taken, substitute Phil. 30)	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, 48	6
At least six credits from History 20, 31, 33, 36, 44, 45, 46 (see pp. 123-125)	6

At least nine credits (which must include Economics 20, if not previously taken, and 42b) from:

Economics 20, 28b, 30b, 32a, 32b, 33, 38a, 38b, 39, 42a, 42b, 46, 47b, 48a, 49b, 259;
Religious Knowledge 20x, 21x, 30x, 31x, 39x, 40x, 41x, 47x, 48x;
Philosophy 30, 30x, 31a, 33bx, 33x, 34b, 37, 37x, 40, 42, 43b, 47, 47x;
Psychology 35, 35x, 36, 36x, 37a, 37b, 38, 39, 43a, 44, 46, 48, 49b.

At least six credits from one of the following:

(a) Latin 20, 30, 39, 40; Greek 10, 20, 29, 30, 40;
French 20, 30, 39, 40, 271, 381 and 491 (see pp. 159-160);
German 20, 30, 31, 39, 40, 41;
Spanish 20, 30, 31; 40, 41; Italian 20, 30;
Hebrew 10, 20, 30, 40.

(b) Applied Biology 23, 40; Nature Study; Zoology 20, 36;
Botany 22b, 25a, 31a, 36b, 43; Chemistry 22, 33, 44;
Geology 20; Geography 35, 45; Physics 21.

(c) Mathematics 10, 12, 18, 20, 22, 24, 28a, 28b, 29, 38a, 48b; Physics, Chemistry from (b).

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

II. SECRETARIAL SCIENCE COURSE

Requirements for Admission: Secondary School Graduation Diploma (page 32).

First Year

Subject	*Credits*
English 10, 11, 19 (pp. 111-112)	4
Latin 10 (p. 98)	3
Library Science 10a (p. 130)	½
Mathematics 10, 12, 18 (any two), (p. 131)	3
Physical Education 10 (p. 148)	1
Biological Science 11 (p. 82)	3
One of:	
French 10 (p. 158)	3
German 1 or 10 (p.118)	3
Spanish 10 (p. 160)	3

Second Year

Early application for admission to this year is imperative because not more than fifteen registrations are accepted. To secure admission students must have passed the above first year without any conditions, or must present certificates of standing in Grade XIII English, French or German and any two of Latin, Mathematics (two papers), Biology (III Class). These students must make up all deficiencies of the first year before beginning any work of the third year.

Subject	*Credits*
Business Administration 20	3
Economic and Political Science 20	3
English 20, 21	3
Physical Education 20	1
Secretarial Science 28, 29	6
One of:	
French 20	3
German 10 or 20	3
Spanish 20	3

Third Year

Business Administration 30	2
English 30	3
English 31	2
Psychology 20	3
Secretarial Science 37	3
Secretarial Science 38, 39	6
One of:	
French 30 (Commercial)	3
German 20 or 30, 31	3
Spanish 30, 31	3

Fourth Year

English 40 or 48	3
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: Secondary School Graduation Diploma (page 32).

The following course, the Theological Options of which are available at Huron College only, is accepted by the University for all Protestant students who have been officially approved as candidates for the ministry by the governing authorities of their respective denominations. The course, however, is open to any man or woman who may be interested in training for religious work as a profession or as an avocation. To meet the individual needs of this latter group adjustments, especially in Greek and Hebrew, will be arranged as the timetable permits.

Any student entering this course with Grade XIII standing in English, and Latin and Grade XII standing in Greek may reasonably expect to complete the course in three years.

Greek and Hebrew may not be begun in the same academic year.

First Year

Subject	*Credits*
Biblical Literature 10x, 11x (p. 163)	2
Apologetics 10x (p. 163)	2
Church History 10ax (p. 164)	1½
English 10, 11, 19 or Homiletics 19x (pp. 111, 112, 165)	4
Greek 1 or 1x (p. 101)	3
History 20b (p. 123)	1½
Latin 10 (p. 98)	3
Library Science 10a (p. 130)	½
Physical Education 10 or 11 (pp. 148, 149)	1

Second Year

Subject	*Credits*
Biblical Literature 20x, 21x	2
English 20, 21	3
Greek 25x	3
Hebrew 10	3
Economics 20	3
Physical Education 20 or 21	1
Psychology 20	3
Homiletics 29x or Psychology 46a	1

Third Year

Biblical Literature 30x, 31x	2
History 33a, 46b	3
English 30	3
Greek 35x	3
Hebrew 20	3
Philosophy 30	3
Psychology 39	2

Fourth Year

Biblical Literature 40x, 41x	2
Church History 41x	3
Economic and Political Science 32, 28b	4½
English 40 or 48	3
History 31 or 44	2
Philosophy 31a, 33bx	2
Psychology 48	3

IV. COURSE FOR NURSES

Leading to the Degree of Bachelor of Science

Requirements for Admission: Secondary School Graduation Diploma (page 32).

Registration in the first year of this course is limited. Each applicant for admission must submit a certificate of acceptance for this course from the Chief of Division of Study for Graduate Nurses of the Faculty 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:

Part (a) In the Faculty of Arts either one and a half academic years (I) or one academic year (II), the latter for those with Grade XIII standing in English, French or German, Botany, Zoology and Chemistry.

Credit in Grade XIII English and French will cancel English 10, 11 and French 10 respectively: Second Class standing in Grade XIII Botany, Zoology and Chemistry will cancel Botany 11N, Zoology 11N, Chemistry 11N, respectively.

I.

First Year

Subject	*Credits*
Botany 11N (p. 83)	1½
Chemistry 11N (p. 95)	3
Economics 20a, 28b (p. 105)	3
English 10, 11, 19 (p. 111, 112)	4
French 10 or German 10 (pp. 158, 118)	3
Library Science 10a (p. 130)	½
Physical Education 10 (p. 148)	1
Zoology 11N (p. 86)	1½

Second Year, First Term Only (September to January)

Subject	*Credits*
Chemistry 22a	1½
English 20a, 21a	1½
Language of first year continued	1½
Psychology 20aN	1½
Physical Education 20a	½
Zoology 21aN	2

II.

Students who offer certificates to cancel all the courses mentioned above must take a whole year (as below), not a half-year, in the Faculty of Arts and the regular thirty-six, not thirty-two, months in a Training School for Nurses.

Subject	*Credits*
Botany 36b	1½
Chemistry 22a	1½
English 19, 20, 21	4
Language of Grade XIII (Upper School) continued	3
Library Science 10a	½
Physical Education 10	1
Psychology 20	3
Zoology 21aN	2

Part (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.

Part (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 option. She must inform the Faculty of Public Health by June 30th of the option she has chosen for her final year's work.

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: Secondary School Graduation Diploma (page 32).

Grade XIII standing in English, French, Mathematics will cancel English 10, 11; French 10; Mathematics 10, 12, 18; Grade XIII Botany, Zoology, Chemistry with Second Class standing will cancel Botany 11N, Zoology 11N, Chemistry 11N.

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

First Year

Subject	*Credits*
English 10, 11, 19 (pp. 111, 112)	4
Religious Knowledge or Psychology (pp. 155, 140)	2
Chemistry 11N (p. 95)	3
Physical Education 10 (p. 148)	1
Home Economics 25x, 26x, 30x, 32x (p. 127)	7
Music, or Art, or Applied Art, or Modern Language (10)	3

Second Year

Subject	*Credits*
English 20, 21	3
Economics or Religious Knowledge	1
Physical Education 20	1
Chemistry 22a, Botany 36b	3
Home Economics 40x, 42x	5
Home Economics 43ax, 44bx	2
Music, or Art, or Applied Art, or Modern Language (20)	3

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

Students who transfer from the diploma course to the degree course will be required to do extra work in Foods and Clothing.

(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.

Students must attend 80% of the classes in each course in Home Economics or they may not write the examinations.

Home Economics and Chemistry courses must be taken in the order and the year designated.

First Year

Subject	*Credits*
Botany 11N (p. 83)	1½
English 10, 11, 19 (pp. 111, 112))	4
Library Science 10a (p. 130)	½
Chemistry 11N (p. 95)	3
French 10 or German 10 or Spanish 10 (pp. 158, 118, 160)	3
Mathematics 10a, 12b, 18 (any two), (p 131)	3
Physical Education 10 (p. 148)	1
Zoology 11N (p. 86)	1½

Second Year

Botany 36b	1½
English 20, 21	3
French 20 or German 20 or Spanish 20	3
Chemistry 22	3
Zoology 21aN	2
Psychology 20	3
Physical Education 20	1
Religious Knowledge 20x	2
Home Economics 25x	1
Home Economics 26x	1

Third Year

Chemistry 33	3
Economics 20	3
English 30	3
Home Economics 30x	2½
Home Economics 31x	2½
Home Economics 32x	2½

Fourth Year

Chemistry 46	3
Economics 28b	1½
Philosophy 33x	2
Home Economics 40x	2½
Home Economics 41x	3
Home Economics 42x	2½
Home Economics 43ax.	1
Home Economics 44x	1
Home Economics 45x	1

HONOR COURSES

I. Biological Science

Requirements for Admission: Group 1, page 57, 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. See page 41.

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 220	5
Physics 204, 205	3
Zoology 250	2½

Third Year

Economics 20 or Psychology 30 or English 30	3
French 10 or German 35 (language of the second year)	3 or 2
Botany 360a, 360b or 452b	5
Chemistry 303a, 456b	3½
Zoology 350a, 354b, 357	7

Fourth Year

Admission requirements for Fourth year: second class Honors in the third 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: (b), (c), (d).

(a) GENERAL

Subject	*Credits*
French 45, German 45	1
Applied Biology 460a, 463b	5
Botany 452b (or 360b), 461a	5
Zoology 450b, 452a	5

(b) APPLIED BIOLOGY

French 45, German 45	1
Botany 461, 466	5
Applied Biology 460a	2½
Applied Biology 460b	2½
Applied Biology 463b	2½
Zoology 450b	2½
Zoology 456a	2½

(c) BOTANY

French 45, German 45	1
Botany 452b or 360b	2½
Botany 453	2½
Botany 454	2½
Botany 461	2½
Botany 466	2½
Botany 474	2½
Zoology 450b	2½

(d) ZOOLOGY

Subject	*Credits*
French 45, German 45	1
Botany 466b	2½
Zoology 450b	2½
Zoology 451	2½
Zoology 452a	2½
Zoology 454b	2½
Zoology 456a	2½
Applied Biology 460a or 463b	2½

II. Business Administration

Requirements for Admission: Group 2, page 58, with at least 60% in Economics and 60% in Business.

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

Second Year

Subject	*Credits*
English 31	2
Physical Education 21	1
Business 250	3
Business 255	3
Economics 233	3
Eight credits from:	
English 30	3
French 20, 30 or 40	3
Spanish 20, 30, 31	3
Philosophy 30, 31	4
History 31 or 44	2
Economics 251b	1
Economics 257a, 257b	2
Economics 259	2
Economics 300	2
Economics 346	3
Economics 42a, 42b	3

Third Year

Business 306	3
Business 350	3
Business 351	3
Business 353	3
Business 354	3
Three credits from second year options not chosen	3

Fourth Year

For admission to the Fourth Year a standing of 66% in the Third Year is required.

Business 458	3
Business 459	1½
Twelve credits (chosen after consultation with the department) from:	
Business 450	3
Business 451	3
Business 453	3
Business 454	3
Business 460	3
Business 461	3
Business 471	3
Economics 351a, 462b	3
Economics 350a, 453b	3

INTENSIVE COURSE IN BUSINESS ADMINISTRATION

Requirements for Admission: Graduation from a recognized college or engineering school including The Royal Military College. Successful business experience, in lieu of academic training, may be considered.

An average of 66% in this one-year course is required for the Diploma in Business Administration.

Subject	*Credits*
Business 250	3
Business 255	3
Business 351	3
Business 353	3
Business 354 or 454 (chosen after consultation with the head of the department)	3

INTENSIVE COURSE IN PUBLIC ADMINISTRATION

(Not offered in 1943-44.)

Requirements for Admission: Graduation from a recognized college. Successful experience in business or in a government post, in lieu of academic training, may be considered.

Unless an applicant has completed an acceptable course in Statistics, this subject will be required in addition to the minimum of 15 credits in the courses listed below.

An average of 66% in this one-year course is required for the Diploma in Public Administration.

Subject	*Credits*
Business 458	3
Economics 462a, 462b	3
Nine credits from:	
Business 250 or 350	3
Business 450	3
Business 453	3
Business 459 (thesis in Problems of Industry or Distribution)	1
Business 460	3
Economics 233	3
Economics 342a, 342b	3
Economics 453b	1

III. Business Administration and Secretarial Science

Requirements for Admission: Group 2, page 58, with at least 60% in Economics and in Business.

This course, with the addition of Penmanship, satisfies the academic requirements for the Commercial Specialist Certificate of the Department of Education of Ontario. See page 41.

Second Year

Subject	*Credits*
English 31	2
Physical Education 20 or 21	1
Business 36	2
Business 250	3
Economics 233	3
Economics 257a, 257b, 259	4
Secretarial Science 28, 29	6

Third Year

Subject	*Credits*
Business 350	3
Business 351	3
English 30	3
History 31	2
Secretarial Science 37	3
Secretarial Science 38, 39	6

Fourth Year

For admission to the Fourth Year, a standing of 66% in Business and Secretarial Science of the Third Year is required.

Business 306	3
Business 460	3
Economics 46 or English 40 or 48	3
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 460 either Business 461 or Business 471.

IV. Chemistry

Requirements for Admission: Group 1, page 57, 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. See page 41.

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	5
Chemistry 252b	3½
Geology 251	2
Zoology 250b	2½

Third Year

French 10 or German 35 (language of the Second Year)	3 or 2
Chemistry 303	4
Chemistry 354	5
Chemistry 357a	½
Physics 254, 255	5
One of:	
Economics 20	3
English 30	3
Psychology 30	3

Fourth Year

For admission to the Fourth Year, a standing of 66% in the Chemistry of the Third Year is required.

French 45, German 45	1
Chemistry 451a	2
Chemistry 452a	2
Chemistry 453	3½
Chemistry 454	4
Chemistry 455b	2
Chemistry 456b	1½
Chemistry 458 and Comprehensive Examination	3
Chemistry 459	3

V(a). Chemistry and Geology

Requirements for Admission: As for Honor Geology (p. 73).

Second Year

Subject	*Credits*
French 1 or German 5	3
Physical Education 20 or 21	1
Geology 220, 251	7
Chemistry 250a(3), 252b	6½
Physics 205a	1½

Third Year

French 10 or German 35 (language of the Second Year)	3 or 2
Geology 351	4
Chemistry 303 or 354	4 or 5
Geology 361a, 362b	3
Geography 35	3

Fourth Year

For admission to the Fourth Year a standing of 66% in the Chemistry and Geology of the Third Year is required.

French 45, German 45	1
Geology 452	3½
Geology 454	3
Geology 458	2
Chemistry 452a	2
Chemistry 458	1
Chemistry 459b or Geology 455	3
Geography 45	3
One of:	
Economics 20	3
English 30	3
Psychology 30	3

V(b). Chemistry and Physics

Requirements for Admission: Group 1, page 57, 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	7½
Mathematics 254	3
Physics 251, 254, 255	6

Third Year

French 10 or German 35 (language of the second year)	3 or 2
Mathematics 354	2
Chemistry 303	4
Chemistry 354	5
Chemistry 357a	½
Physics 352	3
Physics 354	3½

Fourth Year

For admission to the Fourth Year a standing of 66% in the Chemistry and Physics of the Third Year is required.

Subject	*Credits*
French 45, German 45	1
Chemistry 452a	2
*Chemistry 453 or 454	3½ or 4
Chemistry 458	1
Physics 455	1½
*Physics 453 or 456	2
Physics 458	1
Either Chemistry 459b or Physics 459	3
One of:	
Economics 20	3
English 30	3
Psychology 30	3

VI. Classics

Requirements for Admission: Group 4, page 58, 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. See page 41.

Second Year

Subject	*Credits*
English 30 or 330	3
French 20 or German 20 or Hebrew 20	3
Physical Education 20 or 21	1
Greek 230, 250, 251	4
Latin 230, 250, 251	5
Greek and Latin 257	3

Third Year

English 40 (440) or 48 (448)	3
Greek 340, 350, 351, 352	6
Latin 340, 350, 351, 352	6

Fourth Year

For admission to the Fourth Year a standing of 66% in the Third Year is required.

Greek 450, 451, 452, 453, 457	9
Latin 450, 451, 452, 453, 457	8

VII. Economic and Political Science

Requirements for Admission: Group 2, page 58, with an average of at least 60% in Economics, Business and Psychology and 60% in Economics.

Second Year

Subject	*Credits*
Biological or Physical Science 11 (one not previously taken) or Mathematics 20b and 22a	3 or 2
Business 250	3
English 31	2
Physical Education 20 or 21	1
Economics 228b, 232a, 233, 251b, 257a, 257b, 259	11

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

Third Year

Subject	*Credits*
Economics 300, 332b, 342b, 346, 355a	9½
History 33a, and one of 31, 44	3½
At least five credits from:	
Economics 330b	1½
Economics 338a, 338b	3
Economics 342a	1½
Economics 345a	1½
Economics 348a	1½
Economics 351a	1½
Economics 353a	1
Economics 363a	1½
Business 351	3
Business 354	3
English 30	3
Geology 20	4
History 20 or 31 or 44 (if not previously taken)	3 or 2
Mathematics 20b, 22a, 24 (if not previously taken)	4
Philosophy 30	3
Philosophy 31a or 42	1 or 2
Psychology 46	2
French 30 or German 30	3 or 2

Fourth Year

For admission to the Fourth Year a standing of 66% in the Economics of the Third Year is required.

Economics 450a, 452a, 460b, 462a, 462b	7½
History 45a, 46b	3
At least six credits (three of which must be in Economics) from:	
Economics 339a	1½
Economics 347b	1½
Economics 350a	1½
Economics 354	1
Economics 449b	1½
Economics 453b	1½
Economics 458b	1½
Economics 478a	1½
Economics 490b	1½
Business 481b	1½
Geography 35	3
Psychology 48	3
Psychology 49b	1½
Options of Third Year not previously taken	3

VIII. English Language and Literature

Requirements for Admission: Group 3, page 58, 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 prerequisite for the qualifying examination for Specialist in English. See page 41

Second Year

Subject	*Credits*
History 36	3
Physical Education 20 or 21	1
English 200, 210, 250, 251	6
Greek 29	1

Subject	*Credits*
Two of French 270	3
German 290	3
Latin 230, 250	3
Greek 230, 250	3

Third Year

Psychology 20	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	3
Economics 20	3
A second language from the above	3
One of the languages not chosen in the second year:	
French 39	1
German 39	1
Latin 39	1

Fourth Year

For admission to the Fourth Year a standing of 66% in the English of the Third Year is required.

History 31 or 44 or Philosophy 40 or 47	2
English 440, 448, 450, 453, 456	11
One of French 490	3
German 480	3
Latin 450, 452	4
Greek 452	3

VIII(a). English and French

Requirements for Admission: Group 3, page 58, 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. See page 41.

Subject	**Second Year**	*Credits*
History 36		3
Physical Education 20 or 21		1
English 200, 210, 250, 251		6
French 270, 271		5
One of:		
German 290		3
Latin 230, 250		3
Spanish 220		3

Third Year

History 31 or 44	2
English 330, 352, 353, 362	6
French 380, 381	6
Greek 29 and either Latin 39 or German 39	2

Fourth Year

For admission to the Fourth Year a standing of 66% in the English and French of the Third Year is required.

English 440, 448, 453, 456	9
French 460, 490, 491	8

VIII(b). English and Latin

Requirements for Admission: Junior Group 3, or Junior Group 4, page 58, with 60% in English and 60% in Latin.

This course is accepted by the Department of Education of Ontario as academic qualification for the Specialist Certificate in English and Latin. See page 41.

Subject	Second Year	*Credits*
History 257		3
Physical Education 20 or 21		1
English 200, 210, 250, 251		6
Latin 230, 250, 251		5
Greek 29		1
One of:		
French 270		3
Greek 20, or 230 and 250		3
German 20 or 290		3

Third Year

History 36	3
English 330, 352, 353, 362	6
Latin 340, 350, 351, 352	6
French 39 or German 39	1

Fourth Year

For admission to the Fourth Year a standing of 66% in the English and Latin of the Third Year is required.

English 440, 450, 453, 456	8
Latin 450, 451, 452, 453, 457	9

IX. French and German or Spanish

Requirements for Admission: Group 4, page 58, with at least 60% in French and in German or Spanish.

This course satisfies the academic requirements for the French and German or French and Spanish Specialist Certificate of the Department of Education of Ontario. See page 41.

Subject	Second Year	*Credits*
English 30		3
Greek 29		1
Physical Education 20 or 21		1
French 270, 271		5
German 290, 291 or Spanish 220, 260		5 or 4
At least three credits from:		
Spanish 20 or 30 and 31		3
Italian 20		3
Latin 230, 250		3
German 20 or 30, 31		3

Third Year

Italian 30 or Philosophy 47	3 or 2
History 45, 46	3
French 380, 381	6
German 390, 391, 393 or Spanish 330, 331, 360	6 or 5

Fourth Year

For admission to the Fourth Year a standing of 66% in the French and German (or Spanish) of the Third Year is required.

French 460, 490, 491	8
German 460, 480, 481, or Spanish 440, 441, 450, 453	8 or 6

IX(a). French and Latin

Requirements for Admission: Group 4, page 58, 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. See page 41. In this course three years, or the equivalent, of Greek or German must be taken in the University.

Second Year

Subject	*Credits*
German 20 or Greek 20	3
English 30	3
Physical Education 20 or 21	1
French 270, 271	5
Latin 230, 250, 251, 257	8

Third Year

German 30, 31 or Greek 30	3
History 45, 46	3
French 380, 381	6
Latin 340, 350, 351, 352	6

Fourth Year

For admission to the Fourth Year a standing of 66% in the French and Latin of the Third Year is required.

German 39 or Greek 29	1
French 460, 490, 491	8
Latin 450, 451, 452, 453	7

X. Geology

Requirements for Admission: Group 1, page 57, 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. See page 41.

Second Year

Subject	*Credits*
French 1 or German 5 (language not previously taken)	3
Physical Education 20 or 21	1
Botany 250	2½
Geology 220, 251a, 251b	7
Physics 204, 205	3
Zoology 250	2½

Third Year

French 10 or German 35 (language of the second year)	3 or 2
Geology 351, 361a, 362b	7
Chemistry 200	4
Geology 356 and Geography 35	5½

Fourth Year

For admission to the Fourth Year a standing of 66% in the Geology and Geography of the Third Year is required.

Economics 20 or English 30 or Psychology 30	3
French 45, German 45	1
Geography 45	3
Geology 452, 454, 455, 457, 458	12½

See also Course Va, Chemistry and Geology (p. 68.)

XI. History

Requirements for Admission: Junior Group 3, page 58, 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. See page 41.

Subject	**Second Year**	*Credits*
History 236		3
History 257		3
Economics 20		3
Philosophy 30 (or *Business Administration 20)		3
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 6

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 333a	1½
History 331	3
One of History 353b, 354b, 356b	1½
Economics 257	2
Economics 259	2
Psychology 20 (or *Geography 35)	3
One of:	
*Economics 232a, 251, 332b	4
English 30, 251	4
Foreign Language: two of Latin, Greek, French, German, Italian, Spanish, authors only, to be arranged	4

Fourth Year

For admission to the Fourth Year a standing of 66% in History and in Economics of the Third Year is required.

History 444	3
History 452a or 465b	1½
History 455	3
History 460	1½
Economics 233	3
Economics 450	1½
Economics 452	1½
One of:	
Economics 346, 453	4½
English 40 or 48	3
Foreign Language: two of Latin, Greek, French, German, Italian, Spanish, authors only, to be arranged	4
*Geography 45a, 45b	3

XII. Mathematics (Including Actuarial Science) and Physics

Requirements for Admission: Group 1, page 57, with an average of at least 60% in Mathematics and 60% in Physics.

Subject	**Second Year**	*Credits*
French 1 or German 5 (language not previously taken)		3
Mathematics 250, 252, 254, 261, 262		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. See page 41.

Third Year

Subject	*Credits*
Economics 20 or English 30 or Psychology 30	3
French 10 or German 35 (language of Second Year)	3 or 2
Mathematics 354	2
Physics 360a, 360b	3½
One of Groups I and II below	7

Fourth Year

For admission to the Fourth Year a standing of 66% in the Mathematics and Physics of the Third Year is required.

French 45, German 45	1
History 45a, 46b	3
Mathematics 456a, 466b	3
Physics 351b, 456	3
One of the Groups I and II below	7

The following two groups are given in alternate years, Group I in 1943-4.

Group I

Mathematics 351a	1
Mathematics 353a	1
Mathematics 355a	1
Mathematics 358b	1
Mathematics 359a, 359b	2
Mathematics 362b or 355b*	1

Group II

Mathematics 450b	1
Mathematics 452a	1
Mathematics 453a	1
Mathematics 454a	1
Mathematics 457	1
Mathematics 462b or 473b*	1
Mathematics 463a	1

*See Actuarial Science Option.

ACTUARIAL SCIENCE OPTION

This option is intended for students who wish to become actuaries. It differs from the Honor Course in Mathematics and Physics only in the addition of two courses in actuarial science in the place of two credits of mathematics in the third and fourth years. 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 of these may be written in the second year, and the other three in the third and fourth years. 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 requirements for the Mathematics and Physics Specialist Certificate of the Department of Education of Ontario.

Third and Fourth Years

Same as Third and Fourth Years in Mathematics Option, except that Mathematics 362b is replaced by Mathematics 355b, and Mathematics 462b is replaced by Mathematics 473b.

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 41.

Third Year

Subject	*Credits*
French 10 or German 35 (language of the second year)	3 or 2
Mathematics 354	2
Physics 350	3
Physics 352	3
Physics 354	3½
Physics 355	3½

Fourth Year

For admission to the Fourth Year a standing of 66% in the Mathematics and Physics of the Third Year is required.

French 45, German 45	1
Economics 20 or English 30 or Psychology 30	3
Mathematics 456a, 466b	3
Physics 351	1
Physics 453	2
Physics 455	1½
Physics 456	2
Physics 458	1
Physics 459	3

XIII. Philosophy and Psychology

This course is offered in University College only.

Requirements for Admission: Group 2, page 58, with at least 60% in Economics and 60% in Psychology.

Second Year

Subject	*Credits*
Biological or Physical Science 11 (one not previously taken)	3
English 30 or History 257	3
Physical Education 20 or 21	1
Philosophy 230, 231a	4
Psychology 235, 236	4
At least three credits from options approved by the Department	3

PHILOSOPHY OPTION

Third Year

History 36	3
Philosophy 334b, 337, 343b, 347	6
Psychology 339, 343a	3
At least five credits from options approved by the Department	5

Fourth Year

For admission to the Fourth Year a standing of 66% in the Philosophy and Psychology of the Third Year is required.

Subject	*Credits*
Philosophy 442, 450, 451, 452, 458	9
At least five credits from:	
Philosophy 440 / Psychology 444, 446, 448, 449b	5
At least three credits from options approved by the Department	3

PSYCHOLOGY OPTION

Third Year

Philosophy 343b, 347	3
Psychology 337, 338, 339, 343a	9
At least five credits from options approved by the Department	5

Fourth Year

For admission to the Fourth Year a standing of 66% in the Philosophy and Psychology of the Third Year is required.

Philosophy 442, 450	3
Psychology 444, 446, 448, 449b, 455	10½
At least three credits from options approved by the Department	3

XIII(a). Philosophy and Psychology

This course is open only to students of Assumption College.

Requirements for Admission: Secondary School Graduation Diploma (page 32).

First Year

Subject	*Credits*
English 10, 11, 19 (pp.111-112)	4
Latin 10 (p. 98)	3
Library Science 10a (p. 130)	½
Mathematics 10, 12, 18 (p. 131), (any two)	3
Physical Education 11 (p. 149)	1
Religious Knowledge 11x (p. 155)	2
At least three credits from the following:	
French 10 (p. 158)	3
German 1 or 10 (p. 118)	3
Greek 1 or 10 (pp. 101-102)	3
Spanish 10 (p. 160)	3
Italian 20 (p. 160)	3
Botany 10 (p. 82)	3
Chemistry 10 (p. 94)	3
Physics 10 (p. 150)	3
Zoology 10 (p. 86)	3

Second Year

Subject	*Credits*
English 20, 21	3
Latin 20 or 25x	3
Physical Education 21	1
Religious Knowledge 21x	2
Philosophy 250x	3
Philosophy 251x	2
Philosophy 257x	3
One of:	
Economics 20	3
French 20	3
German 20	3
Greek 20	3
History 257	3
Italian 30	3
Mathematics 18, 20 (if not previously taken)	2
Philosophy 260x	2
Spanish 20	3
Option of First Year, not previously taken	3

Third Year

English 30	3
Philosophy 351x	3
Philosophy 352x	3
Philosophy 353x	2
Philosophy 357x	3
One of:	
French 30	3
German 30, 31	3
Greek 30	3
History 20	3
Latin 30 or 35x	3
Mathematics 22, 24	3
Religious Knowledge 30x, 31x	3
Option of Second Year, not previously taken	3

Fourth Year

English 40 or 48	3
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 36	3
Latin 40 or 45x	3
Religious Knowledge 40x, 41x	3
Option of Third Year, not previously taken	3

XIII(b). Philosophy and Psychology

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

Requirements for Admission: Secondary School Graduation Diploma (page 32).

First Year

Subject	*Credits*
English 10, 11, 19 (pp.111-112)	4
Latin 10 (p. 98)	3
Library Science 10a (p. 130)	½
Mathematics 10, 12, 18 (p. 131), (any two)	3
Physical Education 11 (p. 149)	1
At least six credits from the following:	
History 14 (p. 123)	3
French 10 (p. 158)	3
German 1 or 10 (p. 118)	3
Greek 1 or 10 (pp. 101-102)	3
Spanish 10 (p. 160)	3
Italian 20 (p. 160)	3
Latin 25x (p. 99)	3
Botany 10 (p. 82)	3
Chemistry 10 (p. 94)	3
Physics 10 (p. 150)	3
Zoology 10 (p. 86)	3
Religious Knowledge 100x, 101x (p. 156)	3

Second Year

English 20, 21	3
Latin 20 or 25x or 35x	3
Physical Education 21	1
Philosophy 250x	3
Philosophy 251x	2
Philosophy 257x	2
Philosophy 260x	2
One of:	
Economics 20	3
French 20	3
German 20	3
Greek 20	3
History 257	3
Italian 30	3
Mathematics 18, 20	2
Religious Knowledge 200x, 201x	3
Spanish 20	3
Option of First Year, not previously taken	3

Third Year

English 30	3
Philosophy 351x	3
Philosophy 352x	3
Philosophy 357x	3
Philosophy 358x	2
One of:	
French 30	3
German 30, 31	3
Greek 30	3
History 20	3
Latin 30 or 35x or 45x	3
Mathematics 22, 24	3
Option of Second Year, not previously taken	3

Fourth Year

Subject	*Credits*
English 40 or 48	3
Philosophy 450x	3
Philosophy 451x	3
Philosophy 452x	3
Philosophy 457x	3
One of:	
French 40	3
German 40, 41	3
Greek 40	3
History 36	3
Latin 40 or 45x	3
Option of Third Year, not previously taken	3

Physics

See Chemistry and Physics (p. 68), and Mathematics and Physics (p. 74).

XIV. Social Science

Requirements for Admission: Junior Group 2, page 58, with 60% in Economics and in Psychology, with History 14 or 20 in place of Business 20, and Biological Science 11 chosen in preference to Physical Science 11.

Second Year

Subject	*Credits*
Economics 228b	1½
Economics 232a	1½
Economics 233	3
Economics 259	2
Philosophy 230	3
Philosophy 231a	1
Psychology 235, 236b	4
Physical Education 20 or 21	1
One of:	
Biological Science 11 or Physical Science 11 (one not previously taken)	3
Geology 20, or Applied Biology 23, or Zoology 20	4 or 3
History 257	3
One language	3

Third Year

Economics 342b	1½
Economics 348a	1½
Economics 346	3
Psychology 337	3
Psychology 339	2
History 45a, 46b	3
Four credits from:	
Economics 300	2
Economics 342a	1½
Economics 339	1½
Economics 354a	1
Philosophy 337	2
Philosophy 343b	1
Philosophy 347	2
Psychology 338	3
Psychology 343a	1

Fourth Year

For admission to the Fourth Year a standing of 66% in the Economics and Psychology of the Third Year is required.

Subject	*Credits*
Economics 449b	1½
Economics 450a	1½
Economics 453b	1½
Economics 462b	1½
Economics 478	1½
Philosophy 442	2
Psychology 446	2
Psychology 448	3
Psychology 449b	1½

Three credits from:

Economics 452a	1½
Economics 460	1½
Economics 490	1½
History 31	2
History 44	2
Philosophy 440	2
Philosophy 458	3
Psychology 444	2
Psychology 455	2

XV. The B.A., M.D. Course

Requirements for Admission: Group 1, page 57, 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 250	2½
Chemistry 200	4
Geology 220	5
Physics 204, 205	3
Zoology 250	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 taken at the Medical School.

DESCRIPTION OF COURSES

DEPARTMENT OF BIOLOGICAL SCIENCES

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. 58.

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

Text-book: Strausbaugh and Weimer, *General Biology.*
References: Jean, Harrah, Herman and Powers, *Man and the Nature of His Biological World.*
Mavor, *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.

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
(MRS.) HELEN BERDAN SLAGHT, Ph.D.,	Associate Professor
(MRS.) ISABEL ALLIN, B.A.,	Demonstrator
(MRS.) ELINOR OLLERHEAD, B.A.,	Demonstrator

Assumption College

ROBERT CUMMINGS, M.S.,	Professor
SISTER M. RAPHAILDA, M.A.,	Lecturer
C. B. VOGEL, M.A.,	Instructor

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 Honor Courses in Biology a student must obtain 60 per cent. in Botany 10.**

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

Prerequisites: complete college entrance requirements.

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

11N. **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: Sinnott, *Principles and Problems of 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: see Botany 25a.

Text-book: Seifriz, *Physiology of Plants.*

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 11N (60%), or Biological Science 11 (60%).

Text-book: Sinnott 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 11N (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 second 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.*

Honor 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.

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.

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

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 360a.

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 360a.

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 360a.

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 bacteria.
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.*
McLung, *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: Sinnott 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.

ZOOLOGY AND APPLIED BIOLOGY

University College

JOHN D. DETWILER, PH.D., F.A.A.A.S.,	Professor
A. D. ROBERTSON, M.A., F.A.A.A.S., F.R.S.A.,	Professor
HELEN BATTLE, PH.D., F.A.A.A.S.,	Associate Professor
H. B. HITCHCOCK, PH.D.,	Assistant Professor
DORIS M. ALLAN, B.A.,	Demonstrator
C. W. ANDREWS, B.Sc.,	Demonstrator
BARBARA BENEDICT, B.A.,	Demonstrator
N. RAE BROWN, B.A.,	Demonstrator

Assumption College

ROBERT CUMMINGS, M.S.,	Professor
SISTER M. RAPHAILDA, 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.

ZOOLOGY

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

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

Prerequisite: complete college entrance requirements.

Text-book: Wolcott, *Animal Biology.*

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

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

20. **Human Biology:** a course dealing with tissues, organs and systems from the structural, functional and developmental points of view. Protoplasm and the cell and genetics with its relationship to evolution and to society will be emphasized. 20a may be elected for 2 credits, but 20b cannot be taken without 20a.

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

Prerequisites: Biol. Sc. 11 (60%) or Zool. 10.

Textbook: Baitsell, *Human Biology.*

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 11N or Biological Science 11 (60%).

Text-book: Baitsell, *Human Biology.*
References: Adams, *An Introduction to the Vertebrates.*
Bensley, *Anatomy of the Rabbit.*
Best and Taylor, *The Human Body and Its Functions.*
Kirkpatrick and Huettner, *Fundamentals of Health.*

36. **Elementary Principles of Genetics:** inheritance. 36a may be taken for 2 credits, but it is a prerequisite for 36b.

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

Prerequisite: Zoology 10 or Biol. Sc. 11 (60%).

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

Honor Courses

250. **Invertebrate Zoology:** supplements 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.

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

357. **Historical 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.

Text-books: Neal and Rand, *Comparative Anatomy.*
Bensley, *Anatomy of the Rabbit.*

451a. **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, *Text-book of General Physiology.*
Heilbrunn, *An Outline of General Physiology.*

454b. **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.*

456a. **Laboratory Technique:** for Honor 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 Honor Biology or the approval of the Dean and of the Head of the Department.

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

APPLIED BIOLOGY

23. **Biological Field-Studies:** a course designed to provide an understanding contact with Nature. Field observations and collections from field trips will form the background of the course. Common Ontario trees, shrubs and birds, local fur-bearers, water-life and representative insects and their relatives will be studied from the point of view of life-history, economic importance, conservation possibilities and scientific identification.

4 class hours a week: 3 credits.

Prerequisite: Biological Science 11 (60%) or its equivalent.

40a. **Arthropoda:** comparative morphology, postembryonic development and economic importance of typical representatives of the main arthropod groups.

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

Prerequisite: Zoology 20.

40b. **Hexapoda:** morphology, organ systems and elementary classification of insects; life-history studies of insects of major economic importance.

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

Prerequisite: Zoology 20.

Honor Courses

460a. **General Arthropodology:** the phylogenetic relationships of arthropods deduced from a study of their morphology and organ systems: life-histories and economic features.

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

Prerequisite: Zoology 350a.

460b. **General Entomology:** morphology, function and general classification of insects: organ systems, biologies and developmental studies.

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

Prerequisite: Zoology 350a.

Text-book: Comstock, *An Introduction to Entomology.*

463b. **Fresh-Water Biology:** an environmental study of inland waters, and the fitness of forms to their environment; problems of con-

servation 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 360a, Zoology 250.

Text-books: Welch, *Limnology.*
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:

544. **Embryology.**

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.**

560a. **Insect Morphology.**

560b. **Insect Taxonomy.**

561a. **Medical Arthropodology.**

561b. **Economic Entomology.**

562. **Arthropod Morphology:** exclusive of the Insecta.

563. **Statistical Methods:** application to Biological Problems. May also be taken for credit in the third or fourth years.

DEPARTMENT OF BUSINESS ADMINISTRATION

†W. A. THOMPSON, M.B.A.,	Professor
R. B. WILLIS, M.A., Acting Head,	Associate Professor
HERO L'ECUYER, M.B.A.,	Assistant Professor
EDMUND WHITTAKER, Ph.D.,	Visiting Professor
*GORDON MCKEE, B.Eng., M.B.A.,	Instructor
‡R. B. TAYLOR, B.A.,	Instructor
C. C. CARROTHERS, B.A., LL.B.,	Lecturer
W. L. DAVIS, M.A., C.A.,	Lecturer
ERIC JONES,	Student Assistant
FRED NORWOOD,	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.

3 hours a week: 3 credits.

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

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

2 hours a week: 2 credits.

Text-book: Finney, *Introduction to Principles of Accounting.*

36. **Business Mathematics:** first term; use of fractions, billing, trade discounts, customs, bank discount, foreign exchange, rapid calculation; second term, compound interest, annuities, bonds, asset evaluation.

2 hours a week: 2 credits.

Text-book: Curtis and Cooper, *Mathematics of Accounting.*

Honor Courses

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.

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

Text-books: Paton, *Essentials of Accounting.*

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

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

Text-books: *Cases and Problems in Business Statistics.*
Cases in Business Conditions.

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* On leave, C.A.A. †On leave, 1942-43. ‡On leave, R.C.N.V.R.

306. **Commercial Law and Documents of Commerce:** The general commercial law of Canada; contracts, agency, negotiable paper, partnership, corporations, banking and securities; with a study of the business papers relating thereto.

3 hours a week: 3 credits.

Text-books: Anger, *Canadian Mercantile Law.*
Anson, *Law of Contracts.*
Falconbridge, *Banking and Bills of Exchange.*
Willman, *Documents of Commerce.*

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.

351. **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: McNair, Learned and Teele, *Merchandise Distribution.*

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, *Financial Instruments and Institutions.*
Canadian Business Problems.

354. **Industrial Management and Engineering:** Modern industry's use of specialization, standardization, simplification; organizing the means of production; controlling materials, equipment, personnel and plant.

3 hours a week: 3 credits.

Text-books: Folts, *Industrial Management.*
Mitchell, *Organization and Management of Production.*
Lausburgh and Spriegel, *Industrial Management.*
Davis, *Industrial Organization and Management.*

450. **Cost Accounting:** the collection of cost data for the control of manufacturing operations.

3 hours a week: 3 credits.

Text-books: Sanders, *Problems in Industrial Accounting.*
Lawrence, *Cost Accounting.*

451. **Sales Management:** the manufacturer's viewpoint; actual cases; outside readings; a term report from each student on a sales problem of a Canadian manufacturer. Not offered in 1943-44.

3 hours a week: 3 credits.

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

453. **Financial Management:** the financial administration and policy of business enterprises, financial budgeting: the analysis and management of investments and the formation of investment policies for different types of investors. Not offered in 1943-44.

3 hours a week: 3 credits.

Text-book: *Current Case Material.*

454. **Factory Industries:** methods of factory management (each student studies intensively one or more departmental functions—personnel, methods, engineering, purchasing); comprehensive surveys of representative industries. Business 450 must be taken concurrently. Factory inspections form a part of the course.

3 hours a week: 3 credits.

Text-books: Glover and Cornell, *Development of American Industries.*
Alderfer and Micht, *Economics of American Industry.*
Fortune Magazine.

458. **Policy and Administration:** designed (1) to coordinate the courses of the department and (2) to introduce problems at the top level of management, including relations between business and government. Public administrators and business executives present their points of view.

3 hours a week: 3 credits.

Text-books: Barnard, *The Functions of the Executive.*
Niles, *Middle Management.*
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.

1½ 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-book: Hanson, *Problems in Auditing.*

461. **Retailing:** retail accounting, merchandising problems and policies, pricing, control, advertising, personnel. Not offered in 1943-44.

3 hours a week: 3 credits.

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

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. Not offered in 1943-44.

3 hours a week: 3 credits.

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

481b. **International Commercial Relations:** foreign trade, trends and factors (raw materials, manufactured goods, tariffs, investments); branch factories; exporting; credit financing and exchange; transportation; marine insurance. Taken with Economics 351a. Not offered in 1943-44.

3 hours a week: 1½ credits.

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

One Year Intensive Courses for Graduate Students

Business Administration

The purpose of this course (see page 66) is to emphasize the fundamental principles in accounting, finance, production and distribution. The courses specified (Business Administration 250, 255, 351, 353, 354 or 454) will be supplemented by special lectures.

Public Administration (see pages 43 and 66)

Courses Leading to the M.A. Degree

Accounting (550), Distribution (551), Finance (553), Production (554). The hours and credits to be assigned for these 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, PH.D., F.C.I.C.,	Professor
JAMES W. BURNS, M.SC., F.C.I.C.,	Professor of Organic Chemistry
C. SIVERTZ, M.SC., PH.D.,	Associate Professor
K. W. HUNTEN, M.SC., PH.D.,	Associate Professor
J. K. WATSON, M.A., A.C.I.C.,	Instructor
JOHN MCALPINE, B.A.,	Demonstrator
WARREN PATTENDEN, B.A.,	Demonstrator
JOHN POLLEY, B.A.,	Demonstrator
ROBERT WADE, B.A.,	Demonstrator
F. W. PYE,	Instrument Maker
*JOHN DRAKE,	Curator
GEORGE SKINNER,	Curator

Assumption College

REV. F. S. RUTH, B.A.,	Associate Professor
SISTER M. HENRIETTA, M.A.,	Instructor
MAURICE J. MULLIGAN, M.A.,	Lecturer

Waterloo College

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

Students taking work in this department will be required to make a deposit of five dollars per laboratory course at the time of registration to cover breakages. 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**

*On leave, C.A.A.

for Honor Courses in Chemistry a student must obtain 60 per cent. in Chemistry 10.

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

Text-books: Deming, *General Chemistry* (Wiley).
Belcher and Williams, *Qualitative Analysis* (Houghton, Mifflin).
Dunbar, *General Chemistry* (Longmans).
Partington, *College Course of Inorganic Chemistry* (Macmillan).

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

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

Text-book: Naylor-Le Vesconte, *Introductory Chemistry with Household Applications* (Appleton-Century).

22. **Analytical:**

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

Prerequisite: Chemistry 10 or 11N.

Text-book: Booth and Damerell, *Quantitative Analysis* (McGraw, Hill).

33. **Organic Chemistry:** lectures dealing with the aliphatic and aromatic hydrocarbons and their derivatives. Prescribed for Home Economics students.

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

Prerequisite: Chemistry 10, 22.

Text-books: Burns, *Laboratory Manual in Organic Chemistry.*
Fuson et al, *A Brief Course in Organic Chemistry* (Wiley).

44. **Physical Chemistry:** a descriptive and non-mathematical treatment of the principles which govern reactions in chemical systems.

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

Prerequisites: Chemistry 10, 22, 33.

46a. **Elementary Biochemistry:** prescribed for Home Economics students.

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

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

46b. **Applied Biochemistry and Food Analysis:**

1 lecture and 5 laboratory hours a week: 1½ credits.

Prerequisites: Chemistry 22, 33.

Text-books: Thorpe, *Biochemistry* (Churchill).
Woodman, *Food Analysis* (McGraw, Hill).

Honor Courses

The Honor student will be expected to write a comprehensive examination at the end of his fourth year. With seminar work, 458, it will be valued at 3 credits.

200. **Second Course in Chemistry:** for Honor Science students; chemical principles from a quantitative viewpoint.

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

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

250. **Second Course in Chemistry:** for Honor Chemistry students; chemical principles from a quantitative viewpoint: micro-qualitative analysis.

2 lectures, 11 laboratory hours a week, first term:
2 lectures, second term: 5 credits.

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

252b. **Quantitative Analysis.**

1 lecture, 11 laboratory hours a week: 3½ credits.

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

303. **Organic Chemistry:** lectures and laboratory exercises dealing with carbon compounds.

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).
Lucas, *Organic Chemistry* (American).
Morton, *Organic Chemistry Technique* (McGraw, Hill).
Mann and Saunders, *Practical Organic Chemistry* (Longmans).

354. **Elementary Physical Chemistry:** a systematic derivation of the principles which govern reactions in chemical systems.

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

Prerequisite: Chemistry 250.

Text-books: Getman and Daniels, *Principles of Theoretical Chemistry* (Wiley).
Partington and Tweedie, *Calculations in Physical Chemistry* (Blackie).
MacDougall, *Physical Chemistry* (Macmillan).

357a. **History and Literature of Chemistry.**

1 lecture a week: ½ credit.

Text-books: Parrington, *Short History of Chemistry* (Macmillan).
Moore, *History of Chemistry* (McGraw, Hill.)

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 to the industries.

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

Prerequisites: Chemistry 200 or 250.

451a. **Electrochemistry:**

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

Prerequisite: Chemistry 354 or 444.

Tex-book: Creighton and Koehler, *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).
Fuson and Snyder, *Organic Chemistry* (Wiley).

454. **Physical Chemistry:** Thermodynamics and Kinetic Theory of Matter.

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

Prerequisite: Chemistry 354 or 444.

Text-books: Sivertz, *Outline of Thermodynamics.*
Steiner, *Introduction to Chemical Thermodynamics* (McGraw, Hill).

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.

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

Prerequisite: Chemistry 303.

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 Honor Chemistry students and desirable for all students majoring in Chemistry. Comprehensive examination. 3 credits.

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.

550, 552, 553, 554, or 556. Advanced work in **Inorganic, Analytical, Organic, Physical Chemistry** or **Biochemistry.** Each 2 credits.

558. **Seminar and Comprehensive Examination:** 3 credits.

559. **Research:** to be arranged: 3 to 8 credits.

DEPARTMENT OF CLASSICS

University College

J. D. RALPH, PH.D.,	Professor
DEAN K. P. R. NEVILLE, PH.D.,	Professor
R. E. K. PEMBERTON, M.A.,	Associate Professor
D. O. ROBSON, PH.D.,	Assistant Professor

Alma College

PRINCIPAL PERRY S. DOBSON, M.A., D.D.,	Professor
MARIE BANBROOK, B.A.,	Instructor

Assumption College

REV. J. M. HUSSEY, M.A.,	Professor
REV. A. J. BROWN, B.A.,	Instructor
GEORGE H. POTTS, B.A.,	Instructor
SISTER M. ROSALIE, M.A.,	Lecturer
MRS. H. H. LIDDELL, B.A.,	Lecturer

St. Peter's College

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

REV. M. B. PARKER, M.A., B.D.,	Lecturer
REV. L. A. NELLES, B.A., L.TH.,	Lecturer

LATIN

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

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: Grade XII or Middle School Latin.

Text-books: Neville et al., *A Book of Latin Prose, Part I* (Macmillan).
Neville et al., *A Book of Latin Poetry, Part I* (Macmillan).
Bonney and Niddrie, *Latin Prose Composition* (Ginn).

20. Livy, *Book I;* Virgil, *Aeneid II;* Ovid, *Metamorphoses VIII;* composition; sight translation.

3 hours a week: 3 credits.

Prerequisite: Latin 10 or Upper School Latin.

Text-books: Stephenson, *Livy, Book I.*
Page, *Virgil, Aeneid II* (Macmillan).
Summers, *Ovid, Metamorphoses VIII* (Macmillan).
Arnold, *Latin Prose Composition* (Longmans).

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, *Pro Murena;* Catullus; Virgil, selections from the *Bucolics* and *Georgics;* composition, sight translation.

3 hours a week: 3 credits.

Prerequisite: Latin 20.

Text-books: Freese, *Cicero, Pro Murena* (Macmillan).
Page, *Virgil, Bucolics and Georgics* (Macmillan).
Simpson, *Select Poems of Catullus* (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-VI;* Horace, *Satires, Epistles;* Juvenal, *Satires;* composition, sight translation.

3 hours a week: 3 credits.

Prerequisite: Latin 30.

Text-books: 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.*

Honor Courses

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

Sight translation is an integral part of each of the courses in Latin Authors.

230. Cicero, *Pro Murena;* Catullus; Virgil, selections from the *Bucolics* and *Georgics*.

2 hours a week: 2 credits.

Prerequisite: Group 3 or 4, page 58.

Text-books: Freese, *Cicero, Pro Murena* (Macmillan).
Page, *Virgil, Bucolics and Georgics* (Macmillan).
Simpson, *Select Poems of Catullus* (Macmillan).

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

1 hour a week: 1 credit.

Prerequisite: Group 3 or 4, page 58.

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

251. **Syntax and Composition.**

2 hours a week: 2 credits.

Prerequisite: Group 3 or 4, page 58.

257. **Ancient Civilizations:** the Near East, Greece, Rome. Identical with History 257 and Greek 257.

3 lectures a week: 3 credits.

Text-book: Smith and Moorhead, *A Short History of the Ancient World* (Appleton-Century).

340. Virgil, *Aeneid I-VI;* 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 Archia, Philippic II, Letters*.

2 hours a week: 2 credits.

Prerequisites: Latin 230, 250.

Text-books: Holden, *Cicero, De Officiis III* (Cambridge).
How, *Cicero, Select Letters* (Oxford).
Nall, *Cicero, Pro Archia* (Macmillan).
Mayor, *Cicero, The Second Philippic Oration* (Macmillan).

351. **Syntax and Composition.**

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.

Prerequisites: Latin 230, 250.

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

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

2 hours a week: 2 credits.
Prerequisites: Latin 340, 350, 352.

Text-books: Cluer and Matheson, *Livy, Books V, VI, VII* (Oxford).
Furneaux, *Tacitus, Annals I-IV* (Oxford).

451. **Syntax and Composition.**

1 hour a week: 1½ credits.
Prerequisite: Latin 351.

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

2 hours a week: 2 credits.
Prerequisites: Latin 340, 350, 352.

Text-books: Lee, *Lucretius, I-III* (Macmillan).
Duff, *De Rerum Natura V* (Cambridge).
Peterson, *Quintilian X* (Oxford).
Page, *Virgil, Aeneid VII-XII* (Macmillan).
Morris, *Horace, Satires and Epistles* (American).

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-book: Beazley and Ashmole, *Greek Sculpture and Painting to the End of the Hellenistic Period* (Cambridge).

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

2 hours a week: 2 credits.

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.

3 hours a week: 3 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 in Huron College.

See note under Greek 1, above.
3 hours a week: 3 credits.

Text-book: Nunn, *The Elements of New Testament Greek* (Cambridge).

10. Xenophon, *Hellenica* (Selections); Colson's *Greek Reader, Part VIII;* composition; sight translation.

3 hours a week: 3 credits.

Prerequisite: Grade XII Greek or Greek 1.

Text-books: Phillpotts, *Selections Adapted from Xenophon*, Sections I, II, III (Oxford).
Colson, *Greek Reader* (Macmillan).
North and Hillard, *Greek Prose Composition* (Copp, Clark).

20. Plato, *Crito;* Euripides *Alcestis;* Xenophon, *Oeconomicus;* Demosthenes, *In Cononem;* composition, sight translation.

3 hours a week: 3 credits.

Prerequisite: Greek 10 or Grade XIII Greek.

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

29. **Greek Literature in English Translation:** a survey of Greek literature for those without a reading knowledge of Greek.

1 hour a week: 1 credit.

30. Plato, *Apology;* Aristophanes, *Clouds;* Homer, selections from the *Iliad* and the *Odyssey;* 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, Euthyphro, Apology and Crito* (Oxford).
Merry, *Aristophanes, Clouds* (Oxford).
Rennie, *Selections from Homer* (Arnold).
Walnwright, *Homer, Iliad, Bk. I* (Bell).

40. Aeschylus, *Prometheus Vinctus;* Euripides, *Medea;* Sophocles, *Oedipus Tyrannus, 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: Headlam, *Euripides, Medea* (Cambridge).
Prickard, *Aeschylus, Prometheus Vinctus* (Oxford).
Jebb, *Sophocles, Oedipus Tyrannus* (Cambridge).
Jebb, *Sophocles, Antigone* (Cambridge).

Honor Courses

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

Sight translation is an integral part of each of the courses in Greek Authors.

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 4, page 58.

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

250. **The Greek Epic:** selections from the *Iliad* and the *Odyssey.*
1 hour a week: 1 credit.
Prerequisite: Group 4, page 58.
Text-books: Monro, *Homer, Iliad* (Oxford).
Merry, *Homer, Odyssey* (Oxford).

251. **Syntax and Composition.**
1 hour a week: 1 credit.
Prerequisite: Group 4, page 58.

257. **Ancient Civilizations:** the Near-East, Greece and Rome. Identical with Latin 257 and History 257.
3 lectures a week: 3 credits.
Text-book: Smith and Moorhead, *A Short History of the Ancient World* (Appleton-Century).

340. **Greek Tragedy:** Sophocles: *Oedipus Tyrannus, Antigone;* Aeschylus, *Prometheus Vinctus;* Euripides, *Medea.* Lectures on the theatre and the drama.
2 hours a week: 2 credits.
Prerequisite: Greek 230.
Text-books: Headlam, *Euripides, Medea* (Cambridge).
Jebb, *Sophocles, Oedipus Tyrannus* (Cambridge).
Jebb, *Sophocles, Antigone* (Cambridge).
Prickard, *Aeschylus, Prometheus Vinctus* (Oxford).

350a. **Introduction to the Greek Historians:** Herodotus.
2 hours a week: 1 credit.
Prerequisite: Greek 230.
Text-book: Smith and Laird, *Herodotus, Books VII and VIII* (American).

350b. **The Attic Orators:** Lysias and Demosthenes.
2 hours a week: 1 credit.
Prerequisite: Greek 230.
Text-books: Schuckburgh, *Lysiae Orationes XVI* (Macmillan).
Sandys, *Demosthenes, Philippic I, Olynthiacs I, II, III* (Macmillan).

351. **Syntax and Composition.**
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).

450. **The Greek Historians:** Thucydides.
2 hours a week: 2 credits.
Prerequisite: Greek 340, 350.
Text-book: Marchant, *Thucydides I, II, III* (Macmillan).

451. **Syntax and Composition.**
1 hour a week: 1½ credits.
Prerequisite: Greek 351.

452. **Greek Philosophy:** 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.

Text-books: See Latin 453.

457. **Greek and Roman History:** lectures, readings and reports. Prescribed for students in Honor Classics and optional with the consent of the instructor for other qualified students. Identical with Latin 457.

2 hours a week: 2 credits.

Biblical Greek

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.

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: *Greek Testament* (B. and F. Bible Society).
Nunn, *Syntax of New Testament Greek* (Cambridge).
Cambridge Greek Testament Series.

35x. The Gospel of St. Matthew; I and II Corinthians; The Gospel of St. Luke; Romans; Hebrews; Pastoral Epistles. Exegesis, composition, sight translation.

3 hours a week: 3 credits.

Text-books: See Greek 25x.
Reference: Moulton, *Grammar of New Testament Greek.*

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.,	Professor
E. E. REILLY, B.S.A., M.S., F.R.E.S.,	Professor
W. B. HARVEY, LL.B., PH.D.,	Associate Professor
C. J. BITTNER, PH.D.,	Assistant Professor
E. G. PLEVA, PH.D.,	Assistant Professor
EDMUND WHITTAKER, Ph.D.,	Visiting Professor
K. GRANT CRAWFORD, M.A.,	Lecturer

Waterloo College

CRAIG MCIVOR, M.A.,	Professor

Assumption College

G. R. HORNE, M.A.,	Professor
REV. L. C. QUINLAN, M.A.,	Associate Professor
REV. F. L. BURNS, M.A.,	Assistant Professor
J. P. CONNELL, B.A.,	Instructor
C. J. COOKE, M.A.,	Lecturer

Ursuline College

MOTHER M. ST. MICHAEL, M.A.,	Instructor
MOTHER M. ROSANNA, M.A.,	Instructor
MARGARET MULLIN, M.S.W.,	Lecturer

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 and Inman, *A Social Approach to Economics* (Toronto Press).

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, 28x, 3 hours a week throughout the year: 3 credits.)

3 hours a week: 1½ credits.

30b. **Civics:** an analysis of Canada's current economic, political and sociological problems: the effect of World War II upon the Canadian economy. Lectures, assigned readings and reports.

3 hours a week: 1½ 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, France and

Switzerland. Reference will also be made to the governments of the new states of Central Europe, and to the League of Nations.

3 hours a week: 1½ credits.

32b. **Dictatorships and Socialism:** a critical study of Socialism, Communism and Fascism; an examination of the economic and political systems of Germany, Italy and the Soviet Union.

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 environment; 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.

38b. **The Sociology of the Family:** a study of the evolution of the family group and an examination of the various factors affecting the foundation of the modern family.

3 hours a week: 1½ credits.

39a. **Rural-Urban Sociology:** a study of the differentiation and integration of rural and urban populations and an analysis of the various factors affecting their social welfare.

3 hours a week: 1½ credits.

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.

Text-book: *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;

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

3 hours a week: 1½ credits.

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.

47b. **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.

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

3 hours a week: 1½ credits.

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.

3 hours a week: 1½ credits.

Honor 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, laissez faire and Economic Nationalism.

2 hours a week: 1 credit.

257b. **Economic History of North America:** a survey of the geographical and historical conditions which have given rise to the current economic problems of the United States and Canada.

2 hours a week: 1 credit.

259. **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.

2 hours a week: 2 credits.

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

2 hours a week: 2 credits.

330b. Identical with 30b.

332b. Identical with 32b.

338a. Identical with 38a.

338b. Identical with 38b.

339a. Identical with 39a.

342a. Identical with 42a.

342b. Identical with 42b.

345a. **Introduction to the Mathematical Treatment of Economics:** the application of mathematical analysis to the statement of fundamental economic principles, with the object of acquainting the student with elementary techniques as used in modern economic literature.

3 hours a week: 1½ credits.

346. Identical with 46.

347b. Identical with 47b.

348a. Identical with 48a.

350a. **Business Cycles:** booms and depressions, their characteristics and significance, modern theories and possible controls.

3 hours a week: 1½ credits.

351a. **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.*

353a. **Business Finance:** the promotion of business enterprises, types of organization, methods of financing, financial controls and dividend policies. Not given in 1943-44.

2 hours a week: 1 credit.

Text-book: Gerstenberg, *Financial Organization of 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.

2 hours a week: 1 credit.

355a. **Statistical Methods:** an introduction to statistical methods applied to 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.

3 hours a week: 1½ credits.

363a. **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.

3 hours a week: 1½ credits.

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; the shifting and incidence of taxation; government activities and financial policies.

3 hours a week: 1½ credits.

458b. **History of Sociological Thought:** a survey of the development of sociological thought, with emphasis on sociological theories and their relation to other social sciences.

3 hours a week: 1½ credits.

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

3 hours a week: 1½ credits.

462a. **Introduction to Public Administration:** a critical examination of modern political theories with special emphasis on theories of the economic and social functions of the state.

3 hours a week: 1½ credits.

462b. **Public Administration:** social control of business enterprise; a general survey of governmental activities affecting business; the state as 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.

3 hours a week: 1½ credits.

478a. **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.

3 hours a week, 1 term: 1½ credits.

490b. **Seminar Course:** current economic literature, research.

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.) EVELYN K. ALBRIGHT, M.A.,	Associate Professor
F. STILING, M.A.,	Associate Professor
ELEANOR DOHERTY, PH.D.,	Assistant Professor
JEAN I. WALKER, A.L.C.M.,	Instructor
DORIS LIDDICOATT, M.A.,	Instructor
(MRS.) JEAN T. NEVILLE, M.A.,	Lecturer
HELEN M. ALLISON, M.A.,	Assistant
(MRS.) ELEANOR RIGG SYRETT, B.A.,	Assistant
FLORA MACLEOD, M.A.,	Assistant
AUDREY GRAY, B.A.,	Assistant

Alma College

HELEN HARDY, B.A., Instructor

Assumption College

REV. E. C. LEBEL, M.A., Professor
E. S. J. PAULUS, B.A., Instructor
REV. A. J. DENOMY, PH.D., Lecturer
REV. E. G. LEE, B.A., Lecturer
REV. J. S. MURPHY, M.A., Lecturer
SISTER M. ELECTA, M.A., Lecturer
SISTER M. ROSALIE, M.A., Lecturer
MARIANNA SOULE VAN DOREN, B.A., Lecturer

Ursuline College

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

St. Peter's College

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

Waterloo College

CARL F. KLINCK, PH.D., Professor

10. **Shakespeare and Prose Selections.**

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

B. A careful reading of the following plays:
Shakespeare, *Richard III; Henry IV, Part II; Antony and Cleopatra;*
Dekker, *The Shoemaker's Holiday.*

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

D. A short history of English literature: older drama and prose.
2 hours a week: 2 credits.

Text-books: Deighton's *Shakespeare* (Macmillan), or Kittredge's *Shakespeare* (Ginn), or *The Arden Shakespeare* (Heath); *Swan* edition of *The Tempest* (Longmans).
Holzknecht and McClure, *Selected Plays of Shakespeare, Vol. I* (American).
Dekker, *The Shoemaker's Holiday* (Dent or 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.
1 hour a week: 1 credit.

Text-book: Davis, *Toward Correct English* (Crofts).

19. **Speech Education:** the principles of public speaking in the practical and familiar types of address; the purposes of speech, such as exposition, belief, persuasion, 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: Hayworth, *Public Speaking* (Ronald Press).

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* (Ginn).
Sheridan, *The School for Scandal* (Dent).
Scott, *Rob Roy* (Nelson).
Hardy, *The Return of the Native* (Scribner).

021. **Composition:** a review of English grammar, spelling and the mechanics of writing; prescribed for students of the second year who have difficulty with English 21.

1 hour a week: no credit.

Text-books: Chase, *Constructive Theme Writing* (Holt).
Treble and Vallins, *An A. B. C. of English Usage* (Oxford).

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

1 hour a week: 1 credit.

Prerequisite: English 11.

Text-books: Chase, *Constructive Theme Writing* (Holt).
Treble and Vallins, *An A. B. C. of English Usage* (Oxford).

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.

Prerequisite: English 20, 21.

Text-books: *English Literature of the Romantic Period and the Nineteenth Century, Vols. I, II and III* (Dept. of English, University of Western Ontario).
Austen, *Pride and Prejudice* (Nelson).
Dickens, *Nicholas Nickleby* (Nelson).
Herford, *Age of Wordsworth* (Bell).
Meredith, *The Ordeal of Richard Feverel* (Scribner).
Scott, *The Heart of Midlothian* (Nelson).
Walker, *Age of Tennyson* (Bell).

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

2 hours a week: 2 credits.

Prerequisite: English 21.

Text-book: Smart and McKelvey, *Business Letters*, Revised edition (Harper).

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

3 hours a week: 3 credits.

Prerequisite: English 30.

Text-books: *English Literature of the Romantic Period and the Nineteenth Century, Vols II and III* (Dept. of English, University of Western Ontario).
Untermeyer, *Modern British Poetry* (Harcourt, Brace).
Chesterton, *The Victorian Age in Literature* (Home University Library).
H. G. Wells, *Mr. Polly*.
Stevenson, *Essays* (Macmillan).
Shaw, *Saint Joan* (Macmillan).
Short Stories by Modern Writers, ed. R. W. Jepson (Longmans, Green).
A. C. Bradley, *Poetry for Poetry's Sake* (in his *Oxford Lectures*, Macmillan).
Selected Modern English Essays (Oxford).
Selected Modern English Essays: Second Series (Oxford).
Essays by Modern Writers, ed. R. W. Jepson (Longmans, Green).
Modern Prose, ed. A. J. J. Ratcliffe (Nelson).
Prose of Our Time, ed. A. J. J. Ratcliffe (Nelson).
F. Swinnerton, *The Georgian Scene* (Everyman's, Dent).

48. **American and Canadian Literature:** prose and poetry; optional for English 40 for students in the fourth year of the General Course; seminars. Given in alternate years; next in 1944-45.

3 hours a week: 3 credits.

Prerequisite: English 20.

Honor Courses

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

3 hours a week, for one term: 1½ credits.

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, The Winter's Tale, Antony and Cleopatra;* Dekker, *The Shoemaker's Holiday;* prose as in English 10, C.

2 hours a week: 2 credits.

Prerequisite: Junior Group 3 or 4 (p. 58).

250. **Representative Works:** English Literature viewed in masterpieces of successive epochs from Milton to Arnold.

3 hours a week, for one term: 1½ credits.

Text-books: Milton, *Paradise Lost* (Nelson).
Keats, *Endymion*.
Arnold, *Poems* (Nelson).
The English Parnassus (Oxford).
Austen, *Mansfield Park* (Nelson).
Scott, *The Legend of Montrose* (Nelson).
Emily Bronte, *Wuthering Heights* (Nelson).

251. **Composition and Bibliography:** exercises and essays.

2 hours a week: 2 credits.

Prerequisites: English 20 and 21.

Text-books: *List of Reference Works and Bibliographical Aids.*
Chase, *Constructive Theme Writing* (Holt).
Wann, *Century Readings in the English Essay* (Appleton-Century).

330. **Nineteenth Century Literature:** from Blake to Arnold. For details see English 30. Honor students will do special reading and prepare seminars and reports.

3 hours a week: 3 credits.

352. **Old and Middle English Literature:** the prescribed readings are arranged to illustrate the development of English literature from Widsith to Chaucer. Given in alternate years: next in 1943-44.

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. Given in alternate years: next in 1943-44.

1 hour a week: 1 credit.

Text-book: Bright and Hulbert, *An Anglo-Saxon Reader* (Holt).

362. **Chaucer:** critical study and reading. Given in alternate years: next in 1943-44.

1 hour a week: 1 credit.

440. Identical with English 40, with the addition of prescriptions in nineteenth century thought and criticism.

3 hours a week: 3 credits.

448. **American and Canadian Literature:** the chief American and Canadian writers; seminars. Given in alternate years: next in 1944-45.

3 hours a week: 3 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 I* (Macmillan).
Milton, *Complete Poetical Works*, ed. Fletcher (New Cambridge Edition, Houghton, Mifflin); or *Complete 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: S. Robertson, *The Development of Modern English* (Prentice-Hall).
A. G. Kennedy, *Current English* (Houghton, Mifflin).

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).
Neilson and Hill, *The New Cambridge Shakespeare* (Houghton, Mifflin).

Courses Leading to the Degree of M.A.

548. Identical with 48.

550. **Seventeenth Century Prose:** 1599 to 1660.

554. ***Contemporary English Literary Criticism:*** 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.*
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, *An Essay towards a Theory of Art* (Secker); *The Theory of Poetry* (Secker); *The Epic* (Secker).
J. Middleton Murry, *The Problem of Style.*
O. Williams, *Contemporary Criticism of Literature* (Parsons).
I. Richards, *Principles of Literary Criticism* (Kegan Paul); *Practical Criticism.*
L. Lewisohn, *A Modern Book of Criticism* (Macmillan).
T. S. Eliot, *Collected Essays.*
Maritain, *Art and Scholasticism* (Sheed and Ward).
M. M. Rader, *A Modern Book of Esthetics* (Holt).
Modern Essays in Criticism, ed. Cairncross (Macmillan).

Also books and articles by Bridges, Shaw, Read, Fausset, Ducasse.

564. **English Thought:** between 1660 and 1798; to be taken with 574.

3 hours a week: 3 credits.

574. **English 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.,	Emeritus Professor
G. H. REAVELY, M.A., D.I.C.,	Professor
E. G. PLEVA, PH.D.,	Assistant Professor
R. D. MACDONALD, PH.D.,	Instructor
EDWARD ROSE,	Student Assistant

20. **Introduction to Geology and Geography:** the earth as the home of man. A study of the natural landscape: weather, climate, land forms, plant and animal distribution, soils, rocks and minerals, ores and metals, the geologic history of the earth. Laboratory work includes map reading, weather forecasting, rock study, fossil identification, etc. Field trips.

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

Honor Courses

220. **Introduction to Geology and Geography:** identical with Geology 20, with additional laboratory work.

3 lectures, 4 laboratory hours a week: 5 credits.

251a. **Crystallography:** a study of systematic crystallography as a basis for mineral determination. Laboratory work in crystal drawing and the study of natural crystals and models.

1 lecture, 2 laboratory hours a week, first term: 1 credit.

251b. **Determinative Mineralogy:** a systematic study of minerals on the basis of their physical properties; chemical and blowpipe methods in determinative mineralogy.

1 lecture, 2 laboratory hours a week, second term: 1 credit.

Text-book: Dana, Hurlbut, *Manual of Mineralogy.*

351. **Advanced Mineralogy:** a study of crystal optics and the application of polarized light to the determination of minerals; in the second term the description of the rock-forming minerals with laboratory practice in their recognition.

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

Text-book: Rogers and Kerr, *Optical Mineralogy.*

356. **Surveying and Field Mapping:** the principles and methods of topographic and geologic surveying; field practice in the use of survey instruments. A study of Canadian mining laws and methods of public land survey. Laboratory practice in drafting. Course given in alternate years: next in 1944-45.

1 lecture, 3 laboratory hours a week: 2½ credits.

Text-book: Davis, *Elementary Plane Surveying.*

361. **Assaying:** dealing principally with fire assaying though some treatment of wet methods is given. Laboratory practice in the assay of a wide variety of ores is given.

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

362. **Mineragraphy:** a study of metallic minerals and their associations in mineral deposits. The use of the ore microscope in polished-section methods and michrochemical methods of mineral determinations.

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

Text-book: Short, *Microscopic Determination of the Ore Minerals.*

452. **Petrology and Petrography:** rock genesis, magma consolidation and differentiation and petrographic consanguinity. The genesis and classification of sedimentary and metamorphic rocks is also included. Laboratory work in the method of petrologic research.

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

Text-book: Grout, *Petrography and Petrology* (McGraw, Hill).

454. **Economic Geology:** a study of some economic mineral deposits, with special reference to Canadian occurrences. Laboratory work will include selected readings and the study of ore suites.

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

Text-book: Lindgren, *Mineral Deposits.*

455. **Structural Geology:** earth forces, their causes and results; strains and stresses of rock deformation; theories of earth genesis. Practice in the interpretation of geological maps is given.

2 lectures, 2 laboratory hours a week, 3 credits. Given in alternate years: next in 1943-44.

457. **History of the Geological Sciences:** a reading course. The class will meet only occasionally by arrangement to receive and discuss selected readings.

1 credit.

458. **Seminar Course:** a study of selected problems of current geological interest.

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, recre-

ation, 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, PH.D.,	Professor
EDWARD TAUBE, PH.D.,	Assistant Professor
H. K. KALBFLEISCH, M.A.,	Assistant Professor

Assumption College

REV. A. J. WEILER, B.A.,	Lecturer
THERESA BRIDGID O'REILLY, M.A.,	Instructor

Ursuline College

MOTHER M. FELICITAS,	Instructor

Waterloo College

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

General Courses

1. **Elementary German:** the work of Grade XII (Middle School) or its equivalent is covered.

3 hours a week: 3 credits.

Text-books: Schinnerer, *Beginning German* (Alternate Edition, Macmillan).
Zeydel, *Graded German Reader for Beginners* (Crofts).

5. **Elementary Scientific German:** the elements of German grammar with the reading of easy scientific German. Prescribed for second year honor science students.

3 hours a week: 3 credits.

Text-books: Kalbfleisch, *German Grammar for Science Students.*
Hagboldt, *Anekdoten und Erzählungen* (Heath).
Wild, *An Introduction to Scientific German* (Oxford).

10. **Intermediate German:** the work of Grade XIII (Upper School) or its equivalent is covered.

3 hours a week: 3 credits.

Prerequisite: Grade XII (Middle School) German or German 1.

Text-books: Schinnerer, *Continuing German* (Macmillan).
Koischwitz, *Die Bilderfibel* (Crofts).
Kästner, *Die verschwundene Miniatur* (Heath).
Thoma, *Lausbubengeschichten* (Heath).

20. **Advanced German:** translation from modern literary German, grammar, dictation, conversation.

3 hours a week: 3 credits.

Prerequisite: Grade XIII (Upper School) German or German 10.

Text-books: Koischwitz, *Reise in die Literatur* (Lippincott).
Fulda, *Höhensonne* (Appleton-Century).
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.*
Tieck, *Die schöne Magelone* (Appleton-Century).
Grillparzer, *Weh dem, der lügt!* (Oxford).
Keller, *Die drei gerechten Kammacher* (Heath).
Sudermann, *Frau Sorge* (Heath).
Hauptmann, *Hanneles Himmelfahrt* (Prentice-Hall).
Binding, *Der Opfergang* (Prentice-Hall).

31. **Grammar:** dictation, conversation.

1 hour a week: 1 credit.

Prerequisite: German 20.

Text-book: Morgan and Mohme, *German Review Grammar and Composition* (Heath).

35. **Intermediate Scientific German:** the reading of scientific works in German. Prescribed for third year honor science students.

2 hours a week: 2 credits.

Prerequisite: German 5 or Grade XII (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. Library).

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, *Wallenstein* (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 honor science students.
1 hour a week: ½ credit.
Prerequisite: German 35 or Grade XIII (Upper School) German.

Honor Courses.

All students in Honor Courses will take comprehensive examintions at the end of their final year. See page 36.

290. **German Romanticism.**
3 hours a week: 3 credits.
Prerequisites: Junior Group 4, see page 58.

291. **Grammar:** conversation, free composition, phonetics.
2 hours a week: 2 credits.
Prerequisites: Junior Group 4, see page 58.
Text-book: Morgan and Mohme, *German Review Grammar and Composition* (Heath).

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: Tonnelat, *A History of the German Language* (Harrap).
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, *Parsival* (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, free composition.
3 hours a week: 3 credits.
Prerequisite: German 391.

Text-books: Mueller, *A Grammar of the German Language* (Part II) (Dent.)
Baerg, *Deutschland* (Holt).

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. 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 honor courses for intramural students.

General Courses

10. Grammar, selections and exercises in translation from English into Hebrew and from Hebrew into English; translation of *Genesis* 1, 18; *Psalms*, 2, 8, 19, 23, 51. Grammatical analysis, parsing and vocabulary.
3 hours a week: 3 credits.

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.
Prerequisites: 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, 91, 110, 121-134; *Ecclesiastes* 12; *Proverbs* 1-4, 8; *Job* 28.

3 hours a week: 3 credits.
Prerequisite: Hebrew 30.

Honor 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, PH.D., F.R.S.C.,	Professor
F. LANDON, M.A., F.R.S.C.,	Associate Professor
S. F. MAINE, B.D., PH.D.,	Associate Professor
*H. M. THOMAS, PH.D.,	Assistant Professor
REV. M. A. GARLAND, M.A.,	Instructor
J. J. TALMAN, PH.D.,	Lecturer

Assumption College

REV. E. G. LEE, B.A.,	Professor
REV. A. J. DENOMY, PH.D.,	Lecturer
REV. V. L. KENNEDY, M.A., L. ès L., D.Arch.,	Lecturer
REV. D. J. MULVIHILL, B.A.,	Instructor
REV. E. M. YOUNG, B.A.,	Lecturer
SISTER ALOYSIUS MARY, M.A.,	Lecturer
SISTER M. ELIZABETH-TERESA, M.A.,	Lecturer

*On leave, C.A.A.

Ursuline College

SISTER M. MERCEDES, M.A., Professor

Waterloo College

MARGARET MACLAREN, M.A., Professor

Alma College

HELEN HARDY, B.A., Instructor

14. **History of the Americas:** a study of the rise and growth of the various American nations and their relations with one another, against their respective geographical, economic and cultural backgrounds.

3 hours a week: 3 credits.

20a. **Mediaeval History:** lectures, prescribed reading and essays: events and movements in continental Western Europe from the late days of the Roman Empire to the end of the Hundred Years' War in France, to the period of the Golden Bull in Germany and in Italy to the time of the Avignon Capitivity. The chief topics are the decline of the Roman State, the Germanic migrations and kingdoms, the Carolingian State, Feudalism, the Church, Towns, the Holy Roman Empire, the developing states.

3 hours a week: 1½ credits.

Text-book: Stephenson, *Medieval History* (Harper).

20b. **The Renaissance and the Reformation:** lectures, prescribed reading and essays; under the Renaissance will be considered the changing attitude toward life, manifesting itself in the new intellectualism, art, science in Italy, Germany and France in particular; the Reformation in Germany and Switzerland.

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 from the beginning of the French Régime to the present.

2 hours a week: 2 credits.

Text-book: Wittke, *History of Canada* (Longmans).

33a. **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: Knaplund, *The British Empire, 1815-1939.*
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.*

36a. **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).

36b. **Modern History (1830-1933):** 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 First World War; the peace settlements; post-war international problems.

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, 1830-1936, Vol. II.*
Robinson and Beard, *Readings in Modern European History, Vol. II* (Ginn).
Shepherd, *Atlas of Medieval and Modern History* (Holt).

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, *History of the American People.*

45a. **Mediaeval, Renaissance and Reformation History, and the Wars of Religion:** lectures, essays and prescribed reading. The course is a condensation of History 20a and 20b, with the addition of the Wars of Religion. It may not be chosen by a student who has credit for History 20.

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). This course may not be chosen by a student who has credit for History 36.

3 hours a week: 1½ credits.

Text-book: See History 45a.

Honor Courses

236a. **Modern History (1555-1830):** for details, see History 36a. Honor students will be required to do special reading and reports in this course.

3 lectures and a seminar a week: 1½ credits.

Prerequisites: Junior Group 3, p. 58.

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).

236b. **Modern History (1830-1933):** for details of course see History 36b. Honor students will be required to do special reading and reports in this course.

3 lectures and a seminar a week: 1½ credits.

Prerequisite: Junior Group 3, p. 58

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.*

257. **Ancient Civilizations:** the Near East, Greece and Rome.

3 hours a week, lectures and seminars: 3 credits.

Text-book: Smith and Moorhead, *A Short History of the Ancient World* (Appleton-Century).

331. **History of Canada:** a survey from the beginning of the French Régime to the present; 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: 3 credits.

333a. **The Development of Self-Government in the British Empire-Commonwealth:** for details, see History 33a. Honor students will be required to do special reading and reports in this course.

3 lectures and a seminar a week: 1½ credits.

353b. **Colonial and British Imperial History:** the Old Colonial System of Spain, Portugal, France, Holland and the First British Empire; the dependent British Empire of today and some of its problems.

3 hours a week, lectures and seminars: 1½ credits.

354b. **History of Latin America:** optional with 353b.

3 hours a week: 1½ credits.

356b. **International Relations and World Problems:** 1918 to the present.

3 hours a week, lectures and seminars: 1½ credits.

444. **History of the United States:** see History 44; prescribed for students of the fourth year in the Honor Course in History; lectures, prescribed reading and essays.

3 hours a week, lectures and seminars: 3 credits.

452a. **History of European Society and Institutions:** this course deals primarily with the social and constitutional history of England to 1660 and emphasizes the use of documents.

3 hours a week, lectures and seminars: 1½ credits.

455. **British Political Parties:** 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, lectures and seminars: 3 credits.

References: 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.*

460b. **History of European Society and Institutions:** primarily Continental Europe to 1648: complementary to 452a.

3 hours a week, lectures and seminars: 1½ credits.

465a. **Tudor and Stuart England:** optional with 452a.

3 hours a week, lectures and seminars: 1½ credits.

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.

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.

564. **History of the Americas:** selected problems in the history of the Americas, with special reference to the European background and to the Colonial period.

DEPARTMENT OF HOME ECONOMICS

Ursuline College

MABEL SANDERSON, B.H.Sc., M.A., Professor
GEORGINA GREEN, B.H.Sc., Instructor

Alma College

ISOBEL KANE, B.Sc., Instructor

Holy Names College

SISTER M. ISIDORE, B.A., Instructor

25x. **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, home heating, lighting, plumbing, and kitchen-planning. The selection, care and use of home equipment; planning the work in the home.

2 hours a week: 1 credit.

26x. **Physiology:** a lecture course dealing with the structure and function of the body organs: studies of respiration, circulation, digestion, nervous system, ductless glands, and the special senses. Assigned reading and reports required.

2 hours a week: 1 credit.

30x. **Clothing:** a brief study of the history of textiles; an intensive study of cotton, linen, wool, silk, rayon, and such newer synthetic fibres as nylon; their structure, chemical and physical properties, weaves, manufacture and wearing qualities. Practical tests of fabrics for adulteration.

The practical work consists of the selection of material and construction of a simple cotton slip or nightgown, a woolen skirt, a cotton or linen dress, the practice of simple fancy work. Essays and collections of various samples of materials required.

1 lecture and 3 laboratory hours a week: 2½ credits.

31x. **Normal Nutrition:** a study of the normal requirements of the body and the optimum diet; food nutrients and their functions in the body; the effects in the body of a deficiency or lack of any of the nutrients. Readings and assignments required.

2 lecture hours a week all year, 2 laboratory hours a week one term: 2½ credits.

Prerequisite: Home Economics 26x.

32x. **Foods:** a study of the composition, manufacture and food value of various foods. The principles of cookery and food preparation, and the scientific theory underlying them. Meal preparation and service. Readings and assignments required.

1 lecture and 3 laboratory hours a week: 2½ credits.

40x. **Clothing:** a study of suitable materials, construction and selection of infants' and children's clothing.

Laundry methods, discussion and practice; stain removal, bleaching agents, water softeners, starches, blues, soaps, dyeing and dry-cleaning; the selection and equipment of the home laundry.

Selection of clothing to suit the personality and figure: choice and care of clothing; clothing selection and budgets, hygiene of clothing.

Practical work consists of the selection and construction of an infant's garment, a woolen garment, a silk or evening dress, or (with the approval of the instructor) a suit. Essays and practical problems.

1 lecture and 3 laboratory hours a week: 2½ credits.

41ax. **Infant and Child Feeding:** pre-natal care of the expectant mother; her diet during pregnancy and lactation; infant care and the care of the pre-school child; the mental, social and emotional development of the child; nutritional needs of the infant in health and disease; preparation of infant feedings; food for the pre-school child; food for the growing child up to 12 years; the school lunch. Readings and assignments.

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

41bx. **Diet Therapy:** modifications of the normal diet to meet specific dietary needs in disease, e.g., diabetes mellitus, arthritis, digestive disturbances, food allergies; calculation of the nutritive value of specific diets; preparation of foods for diet in disease; tray service. Reports, readings and assignments required.

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

Prerequisite: Home Economics 31x.

42x. **Foods:** the study of foods continued; food preservation; advanced cookery; menu planning; preparation and service of meals for various occasions; student demonstrations. Readings and assignments required.

1 lecture and 3 laboratory hour 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; period furniture; illustrated notebook and practical problems.

2 hours a week: 1 credit.

44bx. **Home Nursing and First Aid in the Home:** instruction is given in the location and care of the sick room; taking of temperatures and pulses; simple home care of the sick; emergency treatment; First Aid and simple bandaging; prevention, care and isolation of disease. Essays and practical problems.

2 hours a week: 1 credit.

45x. **Economics of the Household:** marketing and consumer education: a study of marketing to aid in evaluating relative quality, grades, and costs in purchasing for the home; a survey of the marketing system to give a conception of the factors involved in determining the price; standards of living; family income; budgeting; social problems such as relief and domestic employment. Readings, assignments and reports required.

2 lecture 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

L. B. LAUGHLIN, B.A., — Instructor
SISTER ALOYSIUS MARY, M.A., — Instructor

St. Peter's College

REV. CHARLES E. SULLIVAN, B.A., — Lecturer

Ursuline College

ELEANORE CATHERINE DONNELLY, B.A., B.L.S., — 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. Prescribed for all students in the first year.

1 hour a week: ½ credit.

Text-book: Campbell and Welling, *Library Science for Canadians.*

DEPARTMENT OF MATHEMATICS AND ASTRONOMY

University College

H. R. KINGSTON, PH.D., F.R.A.S.,	Professor
*ARTHUR WOODS, M.A.,	Professor
G. R. MAGEE, M.S., PH.D.,	Associate Professor
RANDAL H. COLE, PH.D.,	Instructor
(MRS.) SABINA C. COLE, M.A.,	Lecturer

Assumption College

REV. J. P. RUTH, B.A.,	Professor
MARK LAFRAMBOISE, B.A.,	Instructor
A. NOSOTTI, B.Sc.,	Lecturer
SISTER M. VERONICA, B.A.,	Lecturer

St. Peter's College

REV. F. J. LAVERTY, B.A.,	Lecturer

Ursuline College

MOTHER M. EILEEN, B.A.,	Instructor

Waterloo College

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

Alma College

LILLIAN GORDON, M.A.,	Instructor

10a. **Algebra:** functions and their graphs, quadratic equations, ratio and proportion, variation, progressions, interest and annuities, permutations and combinations, binomial theorem.

3 hours a week: 1½ credits.

Prerequisite: Grade XII (Middle School) Mathematics.

Text-book: Brink, *Algebra, College Course* (Appleton-Century).

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: Grade XII (Middle School) Mathematics.

Text-book: Durrant and Kingston, *A New Analytic Geometry* (Macmillan).

18a. **Plane Trigonometry:** chapters I to IX in the text.

2 hours a week: 1 credit.

Prerequisite: Grade XII (Middle School) Mathematics.

Text-book: Brink, *Plane Trigonometry* (Appleton-Century).

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*On leave, R.C.A.F.

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 Grade XIII (Upper School) Algebra.

Text-books: *Mimeographed Notes.*
Richardson, *An Introduction to Statistical Analysis* (Harcourt, Brace).

22a. **Analytic Geometry:** translation and rotation of axes, reduction of equations of second degree to standard forms, polar co-ordinates, parametric equations, introduction to analytic geometry of three dimensions.

2 hours a week: 1 credit.

Prerequisite: Mathematics 10a and 12b or Grade XIII (Upper School) Algebra and Geometry.

Text-book: Sisam, *Analytic Geometry* (Holt).

24. **Calculus:** elements and practical applications.

2 hours a week: 2 credits.

Prerequisite: Mathematics 10a and 12b or Grade XIII (Upper School) Algebra and Geometry.

Text-book: Smith, Salkover and Justice, *Calculus* (Wiley).

28a. **Astronomical Navigation:** the trigonometric functions; an introduction to spherical trigonometry; the celestial sphere and its co-ordinate systems; the relation of longitude and time; the determination of latitude and longitude; position lines and fixes; the Marcq St. Hilaire Method.

2 hours a week: 1 credit.

29. **Descriptive Astronomy:** a survey course: 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 1943-44.

2 hours a week: 2 credits.

Text-books: Duncan, *Astronomy* (Harper).
Kingston, *An Easy Pocket Star-Guide for Beginners.*

38. **Air Navigation I:** This course follows the syllabus of the Initial Training Schools of the R.C.A.F., and is reserved for the members of the University Air Training Corps.

2 hours a week: 1 credit.

Text-book: *The Service Aircrew, Part I (C.A.P. 12).*

48. **Air Navigation II:** maps and chart projections; theory of D.R. navigation; methods of determining wind velocity; interception of aircraft and surface craft; keeping station; changing station; radius of action of an aircraft returning to the same base, to a moving base, to a different base.

2 hours a week: 1 credit.

Text-book: *Air Ministry Manual of Air Navigation, Vol. I (A.P. 1234)* (His Majesty's Stationery Office).

Honor Courses

250. **Algebra:** determinants and matrices, undetermined coefficients, partial fractions, recurring series, continued fractions, indeterminate equations of first degree, elementary theory of numbers, theory of equations.

2 hours a week: 2 credits.

Prerequisite: Mathematics of Junior Group 1 (page 57).

Text-books: Hall and Knight, *Higher Algebra* (Macmillan).
Lovitt, *Elementary Theory of Equations* (Prentice-Hall).

252a. **Analytic Geometry:** a continuation of Mathematics 22a, along with an introduction to plane analytic projective geometry.

3 hours a week: 1½ credits.

Prerequisite: Mathematics of Junior Group 1 (page 57).

Text-book: Magee, *A First Course in Plane Analytic Projective Geometry.*

254. **Calculus:** First term: 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. Second term: integration as inverse of differentiation and as the limit of summation; methods of integration; reduction formulae; applications.

3 hours a week: 3 credits.

Prerequisite: Mathematics of Junior Group 1 (page 57).

Text-book: Smith, Salkover and Justice, *Calculus* (Wiley).

261b. **Synthetic Solid Geometry.**

2 hours a week: 1 credit.

Prerequisites: Mathematics of Junior Group 1 (page 57).

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

262b. **Analytic Solid Geometry.**

3 hours a week: 1½ credits.

Prerequisite: Mathematics of Junior Group 1 (page 57).

Text-book: Snyder and Sisam, *Geometry of Space* (Holt).

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; the Euler line.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250-262b.

Text-book: Daus, *College Geometry* (Prentice-Hall).
References: Johnson, *Modern Geometry* (Houghton, Miffiin).
Altshiller-Court, *College Geometry* (Johnson).

353a. **The Mathematics of Finance.**

2 hours a week: 1 credit.

Prerequisites: Mathematics 250-262b.

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).

354. **Differential Equations:** first term: differential equations of first order; singular solutions; applications; linear equations with constant coefficients; linear equations with variable coefficients; second term: exact differential equations; integration in series; equations of second order; equations with more than two variables; partial differential equations.

2 hours a week: 2 credits.

Prerequisites: Mathematics 250-262b.

Text-book: Morris and Brown, *Differential Equations, Revised Edition, 1942* (Prentice-Hall).

355a. **Probability and Statistics.**

2 hours a week: 1 credit.

Prerequisites: Mathematics 250-262b.

Text-books: Hall and Knight, *Higher Algebra* (Macmillan).
Freeman, *Mathematics for Actuarial Students, Vol. II* (Cambridge).
Richardson, *An Introduction to Statistical Analysis* (Harcourt, Brace).

355b. **Advanced Statistics:** an extension of Mathematics 355a with special attention to methods of graduation; actuarial option.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250-262b.

358b. **Mathematics for Navigation:** spherical trigonometry; maps and chart projections; theory of astronomical navigation.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250-262b.

References: Brown, *Air Navigation* (Chapman, Hall).
Dutton, *Navigation and Nautical Astronomy* (United States Naval Institute).
The American Nautical Almanac for 1944 (Eastern Science Supply Co.).
Legg, *An Introduction to Astronomical Navigation* (Chapman, Hall).

359. **Descriptive Astronomy:** topics of Mathematics 29, treated in detail.

2 hours a week: 2 credits.

Prerequisites: Mathematics 250-262b.

Text-book: Duncan, *Astronomy* (Harper).

362b. **Metric Differential Geometry of Curves and Surfaces:** the fundamentals of differential geometry of curves in three-dimensional space; curves and surfaces associated with a space curve; an introduction to differential geometry of general surfaces.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250-262b.

Text-book: Lane, *Metric Differential Geometry of Curves and Surfaces* (Chicago University Press).
References: Graustein, *Differential Geometry* (Macmillan).
Eisenhart, *An Introduction to Differential Geometry, with Use of the Tensor Calculus* (Princeton University Press).

450b. **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 250-262b.

452a. **Analytic Projective Geometry:** a continuation of Mathematics 252a.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250-262b.

Text-book: Magee, *A First Course in Plane Analytic Projective Geometry.*
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 250-262b.

Text-book: Freeman, *Mathematics for Actuarial Students, Vol. II* (Cambridge).

454a. **Advanced Calculus:** selected topics.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250-262b.

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

456a. **Theory of Functions of a Real Variable.**

3 hours a week: 1½ credits.

Prerequisites: Mathematics 250-262b.

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 250-262b.

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 250-262b.

Text-books: Rietz, Crathorne and Rietz, *Mathematics of Finance* (Holt).
Spurgeon, *Life Contingencies* (Macmillan).

466b. **Theory of Functions of a Complex Variable.**

3 hours a week: 1½ credits.

Prerequisites: Mathematics 250-262b.

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.,	Associate Professor
A. H. JOHNSON, PH.D.,	Assistant Professor
LEOLA E. NEAL, Ph.D.,	Instructor
G. H. STEVENSON, M.D.,	Lecturer
MARY CATHERINE SMYTH, B.A.,	Demonstrator

Assumption College

REV. E. C. GARVEY, PH.D.,	Professor
REV. R. G. MILLER, PH.D.,	Instructor
REV. A. P. CAIRD, M.A.,	Instructor

St. Peter's College and Ursuline College

REV. J. H. POCOCK, B.A.,	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.,	Associate Professor
REV. J. A. COOK, M.A.,	Instructor
REV. L. J. FLYNN, S.T.D., S.S.L.,	Instructor

Waterloo College

J. A. RIKARD, M.A., B.D.,	Professor

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 and Waterloo Colleges.

3 hours a week: 3 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 St. Peter's Colleges.

3 hours a week: 3 credits.

31a. **Methods and Principles of Thinking:** an analysis of reflective thinking as it is employed in the solving of practical and theoretical problems; alternatives to reflective thinking; the struc-

*On leave, R.C.A.F.

ture of logical argument; fallacies in argument; scientific methods of discovery and verification. Offered in University and Waterloo Colleges.

2 hours a week: 1 credit.

33x. **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. Offered in Huron College.

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 in Assumption and Ursuline Colleges.

2 hours a week: 2 credits.

Text-books: Murray, *Social Ethics.*
Ross, *A Survey of Sociology.*

34b. **The Philosophy of Democracy:** the meaning of democracy; ways in which it can be achieved; arguments for and against democracy.

2 hours a week: 1 credit.

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 in Ursuline College.

2 hours a week: 2 credits.

40. **Philosophical Ideas in Modern English Literature:** a critical discussion of some of the important philosophical ideas which are found in or have influenced modern English prose and poetry.

2 hours a week: 2 credits.

42. **Ethics:** a critical discussion of ethical standards in their applications to problems of private and social morality. Offered in University and Waterloo Colleges.

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; the concepts of God, prayer, evil, freedom, immortality; important types of religious philosophy.

2 hours a week: 1 credit.

47. **Modern Philosophy:** foundations of modern thought. An examination of the origin and implications of some of the basic assumptions in modern Psychology, Physics, Politics, Ethics, Aesthetics and Religion. An attempt will be made to introduce the student to some of the men who created the intellectual environment in which we live today.

2 hours a week: 2 credits.

47x. **History of Modern Philosophy:** the transition from Mediaeval to Modern Philosophy; Modern Philosophy.

In Assumption College, 3 hours a week: 3 credits.

In Ursuline College, 2 hours a week: 2 credits.

Honor Courses

Offered in University College only.

230. **Introduction to Philosophy:** identical with 30.

231a. **Methods and Principles of Thinking:** identical with 31a.

334b. **The Philosophy of Democracy:** identical with 34b.

337. **Greek Philosophy:** identical with 37.

343b. **Philosophy of Religion:** identical with 43b.

347. **History of Modern Philosophy:** identical with 47.

440. **Philosophical Ideas in Modern English Literature:** identical with 40.

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.

458. **Contemporary Philosophy:** a critical study of contemporary tendencies in Logic, Epistemology, Theory of Value and Metaphysics.

2 lectures and 1 seminar hour a week: 3 credits.

Psychology

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.

In University College, Psychology 20 or 30 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.

30. **Psychology: the Mind at Work:** a discussion of the motives, emotions, and intellectual abilities of human beings; special emphasis on the effective use of these factors in private and social activities Open only to students who have neither had nor are taking Psychology 20 or Philosophy 31.

3 hours a week: 3 credits.

35. **Experimental Psychology I:** an elementary course designed to introduce the student to standard laboratory techniques in psychology; emphasis will be placed upon those processes which relate to practical situations such as learning, aesthetic judgment, motor aptitudes.

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

35x. **Experimental Psychology:** learning processes, individual differences, statistical procedure. Offered in 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; sensory, motor, perceptual, emotional, intellectual 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 in Assumption College.

2 hours a week: 2 credits.

Text-book: Kelly, *Educational Psychology.*

37a. **Theory and Construction of Mental Tests:** discussion of basic considerations in mental measurement; description and evaluation of typical measuring instruments and their uses; detailed study

of tests of early childhood, achievement, intelligence, motor tests, and appraisals of artistic ability, interests and attitudes; consideration of persistent problems in the field of mental measurement.

3 hours a week: 1½ credits.

37b. **Statistical Methods in Psychology:** review of elementary techniques such as graphing and tabulation; measures of central tendency, variability and relationship of variables; application of the normal curve to psychological data; reliability of measures; statistical prediction.

3 hours a week: 1½ credits.

38. **Experimental Psychology II:** a laboratory study of such processes as sensation, perception, reaction times, emotions and the higher thought processes.

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

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. **Modern Systems of Psychology:** a critical examination of some important modern systems of psychology; Introspectionism, Functionalism, Behaviorism, Purposivism, Gestalt, Psycho-analysis.

2 hours a week: 2 credits.

46. **Applied Psychology:** 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. 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: 2 credits.

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.

3 hours a week: 3 credits.

49b. **Social Psychology:** the activities of living beings in response to their social environment. The social setting and psychological 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; propaganda; public opinion.

3 hours a week: 1½ credits.

Honor Courses

Offered in University College only.

235. **Experimental Psychology I:** identical with 35, but with additional assignments.

236. **Genetic Psychology:** identical with 36, but with additional assignments.

337a. **Theory and Construction of Mental Tests:** identical with 37a.

337b. **Statistical Methods:** identical with 37b.

338. **Experimental Psychology II:** identical with 38.

339. **Clinical Problems in Mental Hygiene:** identical with 39, but with additional work in mental testing.

343a. **Psychology of Religion:** identical with 43a.

444. **Modern Systems of Psychology:** identical with 44.

446. **Applied Psychology:** identical with 46.

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.

4 laboratory hours a week: 2 credits.

Courses Leading to the Degree of M.A.

550. **Theories of Mental Activity.**

555. **Research Problems in Experimental Psychology.**

558. **Advanced Abnormal Psychology.**

559. **Advanced Clinical Methods.**

Honor 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. I).
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.*

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.

260x. **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)

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.

2 hours a week: 2 credits.

References: St. Thomas, *De Regimine Principum; Summa Theologica.*
Coker, *Readings in Political Philosophy.*
McIlwaine, *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.

Text-book: 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 Seminary College of Arts

250x. **Psychology: Dynamology:** vegetation; sensation and perception; imagination processes; instinctive action; memory work; feeling and emotion; reflex behaviour; intellectual operations; deliberation; the unconscious and abnormal phenomena; the faculty theory and modern psychological research.

3 hours a week: 3 credits.

Text-book: Barbedette and Farges, *Philosophia Scholastica*, Vol. I.
References: Moore, *Dynamic Psychology.*
Brennan, *General Psychology.*
C. Spearman, *The Abilities of Man.*

251x. **Formal Logic:** the three operations of the intellect. Conception: the idea; the term; categories and predicables; definition and division. Judgment: assertion and negation; the proposition; the conversion of propositions. Reasoning: deduction and induction; the rules, modes, and figures of syllogisms; fallacies.

2 hours a week: 2 credits.

Text-book: Barbedette and Farges, *Philosophia Scholastica*, Vol. I.
Reference: Maritain, *Introduction to Logic.*

257x. **The History of Pre-Christian Philosophy:** Philosophy in the Orient before Christ; philosophy in the west from its birth among the Ionians to its perfection in Plato and in Aristotle and then its decline; Graeco-Oriental philosophy at the time of Christ.

2 hours a week: 2 credits.

Text-book: Turner, *History of Philosophy.*
References: Gonzalez, *Histoire de la Philosophie*, Vol I.
Klimke, *Institutiones Historiae Philosophiae*, Vol. I.
Jowett, *The Dialogues of Plato.*

260x. **Introduction to Philosophy: Cosmology:** the meaning of philosophy; the main divisions of philosophy; a survey of certain facts and various theories of Physics and of Chemistry; a preliminary consideration of the properties of material things; the intrinsic constitution of material substances; a critical refutation of Mechanism and of Dynamism as cosmological theories; the philosophy of quantity, quality, movement, time, space, and body; the relation of Cosmology to Physics and to Chemistry.

2 hours a week: 2 credits.

Text-book: Barbedette and Farges, *Philosophia Scholastica*, Vol. I.
References: Maritain, *Introduction to Philosophy.*
Nys, *Cosmologie*, Vols. I and II.
Sheen, *The Philosophy of Science.*

351x. **Metaphysics: Epistemology and Ontology:** (a) problems of Knowledge; the nature and the existence of certain truth which is objective and based on evidence; the objective reality of sensation and of intellectual processes; the value of authority in obtaining knowledge: (b) problems of Being: essence and existence; the transcendental and the universal properties of being; substantial and accidental being; being in its causes and in its effects; the first principles and the analogy of being.

3 hours a week: 3 credits.

Text-book: Barbedette and Farges, *Philosophia Scholastica*, Vol. II.

References: L. de Raeymaker, *Metaphysica Generalis.*
St. Thomas, *Commentarium in Metaphysicam Aristotelis.*
Bittle, *Reality and Mind.*
Maritain, *The Degrees of Knowledge.*

352x. **Ethics:** (a) 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; notions of right and duty; (b) Individual: special rights and duties.

3 hours a week: 3 credits.

Text-book: Barbedette and Farges, *Philosophia Scholastica*, Vol. II.

357x. **History of Philosophy from the Time of Christ to the Renaissance:** Philosophy during the early ages of Christianity: Greek writers: St. Justin, Athenagoras, St. Clement, Origen; Latin writers: Tertullian, Lactantius, St. Augustine, Boethius. Philosophy during the Middle Ages: Arabian writers: Avicenna, Averrhoes; Jewish writers: Avicebron, Moses Maimonides; Scholastic writers: St. Anselm, St. Bonaventure, St. Albert, St. Thomas, Duns Scotus, William of Occam.

3 hours a week: 3 credits.

Text-books: Turner, *History of Philosophy.*
St. Thomas, *De Regimine Principum.*

References: Klimke, *Institutiones Historiae Philosophiae*, Vol. I.
DeWulf, *History of Mediaeval Philosophy.*
Gilson, *The Spirit of Mediaeval Philosophy.*

358x. **Social Philosophy:** historical development of social economy to 19th century liberalism: industrial revolution, capitalism, individualism, collectivism; authoritarian and corporative state: origin and forms of civil organization and administration; social functioning of modern economic society; individual and social character of proprietorship, capital and labor; the business cycle: population, vital statistics; international trade, world peace and progress, the common good.

2 hours a week: 2 credits.

Text-book: Cronin, *Economics and Society.*

References: Cahill, *The Framework of a Christian State.*
Sorokin, *Social and Cultural Dynamics.*
Antoine, *Cours d'Economie Sociale.*
Linhardt, *Die Sozial-Prinzipien des hl. Thomas von Aquin*
Renard, *L'église et la question sociale.*

450x. **Psychology: The Nature of Man:** man's soul and its essential qualities; the union of soul and body in man; personality; the origin and the immortality of the human soul.

2 hours a week: 2 credits.

Text-book: Barbedette and Farges, *Philosophia Scholastica*, Vol. I.
References: Gruender, *Psychology Without a Soul.*
St. Thomas, *Commentarium in Aristotelis Librum de Anima.*
Carrel, *Man the Unknown.*

451x. **Metaphysics: God, The Supreme Being:** the existence of God and the absurdity of atheism; the divine attributes of God and modern agnosticism; the relations of God to the world; creation, conservation, providence; the refutation of pantheism.

3 hours a week: 3 credits.

Text-book: Barbedette and Farges, *Philosophia Scholastica*, Vol. II.
References: St. Thomas, *Summa Contra Gentes.*
Garrigou-Lagrange, *God.*
Sheen, *God and Intelligence in Modern Philosophy.*

452x. **Special Ethics:** Social: man and society: duties to neighbor, in charity, in justice: domestic society; conjugal, parental, filial rights and duties; education: "Occupational estate": nature and structure; capital and labor, strikes, lock-outs, just wage, fair price, competitive economy, money, credit, banking, investment, production, exchange, consumption, agricultural-industrial relations: civil society; the state, its powers and functions; public utilities, government ownership, economic planning, taxation, citizenship, patriotism, war.

3 hours a week: 3 credits.

Text-books: Barbedette and Farges, *Philosophia Scholastica*, Vol. II.
Papal Encyclicals.
References: Cronin, *Economics and Society.*
Haas, *Man and Society.*
Muller, *Notes d'économie politique, Ie et IIe.*
Nell-Breuning, *Reorganization of Social Economy.*

457x. **History of Philosophy from the Renaissance to the Present Day:** Philosophy during the Renaissance: the revival of Platonism, of Humanism, of Scholasticism. Philosophy during the 17th and 18th centuries: the rise of Empiricism, of Idealism, of German Transcendentalism. Philosophy during the 19th and 20th centuries: the rise of Evolution, of Positivism, of Rationalism, of Pragmatism, of Communism; the revival of Thomistic Scholasticism.

3 hours a week: 3 credits.

Text-book: Turner, *History of Philosophy.*
References: Marechal, *Precis d'Histoire de la Philosophie Moderne.*
Royce, *The Spirit of Modern Philosophy.*
Robinson, *Anthology of Modern Philosophy.*

DEPARTMENT OF PHYSICAL EDUCATION

University College

J. H. CROCKER, M.P.E.,	Director
*MARY BARKER, D.P.E.,	Instructor
(MRS.) MILDRED MACQUEEN BALDWIN, D.P.E.,	Instructor
SYLVIA MACKLIN, D.P.E.,	Student Assistant

Alma College

SHEILA FARQUHARSON,	Instructor

Assumption College

REV. C. ARMSTRONG, B.A.,	Instructor
MARGARET MARY WOOLCOTT, M.A.,	Instructor

Ursuline College

MARY SHIRTON, B.A.,	Student Assistant

Waterloo College

RUTHMARIE SCHMIEDER,	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.

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*On leave, C.W.A.C.

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, training in the Armed Services (see p. 150).

Winter: Boxing and wrestling, hockey, basketball, swimming, gymnastics, badminton, first aid, fencing, training in the Armed Services (see p. 150).

At present military training is compulsory each year for all men eighteen years of age or over.

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 of principles of physical education; organization and administration of a physical department.

1 hour a week: ½ credit.

Training in the Armed Services: students who are physically fit must, on registration, affiliate themselves with one of the three armed services, that is, (1) with the army through the Canadian Officers' Training Corps (C.O.T.C.), (2) with the Royal Canadian Air Force through the University Air Training Corps (U.A.T.C.), (3) with the Royal Canadian Navy through the University Naval Training Division (U.N.T.D.). Students will be enrolled as cadets in the C.O.T.C., air cadets in the U.A.T.C., and ordinary seamen in the U.N.T.D. Suitable candidates in each service will be selected and trained for commissioned rank.

DEPARTMENT OF PHYSICS

University College

R. C. DEARLE, PH.D.,	Professor
R. L. ALLEN, M.A.,	Professor
A. WILLENA FOSTER, M.A.,	Associate Professor
A. M. I. A. W. DURNFORD, PH.D.,	Assistant Professor
G. A. WOONTON, M.A.,	Assistant Professor
R. LOVE, B.A.,	Demonstrator
B. LUTZ, B.A.,	Demonstrator
E. HOUGHTON,	Demonstrator
F. W. PYE,	Instrument Maker

Assumption College

REV. F. S. RUTH, B.A.,	Associate Professor
SISTER M. HENRIETTA, M.A.,	Instructor

Waterloo College

R. J. E. HIRTLE, M.SC.,	Professor

All students taking laboratory work in Physics must pay 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-books: Duncan and Starling, *Dynamics*.
Duncan and Starling, *Heat*.
Saunders, *A Survey of Physics*.

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.

Text-book: Richards, *The Universe Surveyed.*

21. **Advanced Survey Course:** supplementary to Physical Science 11.

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

Honor Courses

204b. **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.

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

Text-books: Saunders, *A Survey of Physics.*
Valasek, *Light.*

205a. **Electricity and Magnetism:** an elementary treatment of the phenomena of electricity and magnetism and electron physics.

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 principle 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.

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.

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.*

351a. **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.

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, 3 laboratory hours a week: 3½ credits.

Text-books: Hardy and Perrin, *Principles of Optics.*
Jenkins and White, *Fundamentals of Physical Optics.*

355. **Electricity and Magnetism:** a mathematical treatment of electricity and circuit analysis.

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

Text-book: Page and Adams, *Principles of Electricity.*

356b. **Advanced Acoustics:** harmonic functions of time, of space, and of time and space, with complex representation; fundamental partial differential equations; waves along a tube; perfect terminations; radiation from cones and speakers; lumped acoustical constants of mechanical systems; treatment of acoustic circuits in which mechanical and electrical systems are treated together.

2 lectures a week: 1 credit.

357b. **Alternating Current Electricity:** the elements of circuit analysis applied to A. C. networks. Offered under special circumstances as an option with 352b.

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

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.*

405. **Vacuum Tube Theory and Practice:** offered to students in Honor Science courses other than Physics.

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

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.*

455b. **Electricity and Magnetism:** electromagnetic theory; development of Maxwell's equations with particular emphasis on applications to radiation problems.

3 hours a week: 1½ credits.

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.

457. **Radio:** a course dealing with the theory of vacuum tubes and their applications in radio receivers and transmitters; the technique of cathode ray tubes; the propagation of radio waves; antenna theory; radio direction finding; high frequency and ultra high frequency radiations.

4 lectures first term, 1 lecture second term: 2½ credits.

458. **Seminar:** preparation of papers and reports; reading of historical essays and of articles from current magazines. Prescribed for fourth year students and optional for all students in the Mathematics and Physics course.

1 hour a week: 1 credit.

459. **Laboratory:** 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.

469. **Laboratory:** designed to accompany the lecture work of the fourth year, particularly course 457; students will be required to perform experimental work in the field as well as in the laboratory.

12 laboratory hours a week: 4 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. **Radio:** similar to 457.

558. **Seminar.**

559. **Research.**

569. **Laboratory:** similar to 469; students in this course will be required to display individual initiative and resourcefulness.
12 laboratory hours a week: 6 credits.

DEPARTMENT OF RELIGIOUS KNOWLEDGE

Assumption College

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

St. Peter's College

RT. REV. A. P. MAHONEY, V.G., P.A.,	Professor
REV. C. E. SULLIVAN, B.A.,	Lecturer

Ursuline College

REV. F. J. BRENNAN, B.A.,	Professor
REV. G. F. CHILDS, B.A., J.C.B., J.C.L.,	Lecturer

Waterloo College

REV. C. H. LITTLE, B.A., S.T.D., D.D.,	Professor
REV. J. A. RIKARD, M.A., B.D.,	Professor

Huron College

REV. A. H. O'NEIL, B.A., B.D.,	Professor
REV. H. E. MERIFIELD, B.A., B.D.,	Lecturer
REV. A. A. TRUMPER, L.TH.,	Lecturer
REV. M. B. PARKER, M.A., B.D.,	Lecturer
REV. M. A. GARLAND, M.A., L.TH.,	Lecturer

For courses offered in Huron College, see pages 163-165.

Offered in 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 Theologica, 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 in Ursuline College.

10x. **The Motives and Means of Catholic Life:** unselfish vs. self-regarding loyalty to God; immortality; Man's origin and the Bible; God, the Creator and Lawgiver; The Trinity; the Incarnation; Mary, Virgin and Mother; God, Our Father; Grace, Prayer and the Seven Sacraments: the Mass; Revelation; Faith and Life. Lectures, essays, and prescribed readings.

2 hours a week: 2 credits.

Text-book: Cooper, *Religion Outlines for Colleges, Course II.*
Reference: Martindale, *What Are the Saints?*

20x. **The Christian Ideal of Life:** the great commandment; the love of God in daily conduct, in worship; the love of neighbour—charity and the works of mercy; personal, social, and civic charity. Justice and the commandments; human life and modern conditions; marriage, builder of childhood and adulthood; purity, honesty, truthfulness, citizenship, good-will and peace among nations; liberty and the moral law. Lectures, essays and prescribed readings.

2 hours a week: 2 credits.

Text-book: Cooper, *Religion Outlines for Colleges, Course I.*

30x. **Christian Morals:** The foundation of Christian morality; the ten Commandments of God; the Church as teacher and custodian of morality; modern moral problems affecting the individual, the family and society.

2 hours a week: 2 credits.

Text-book: Cooper, *Religion Outlines for Colleges, Course III.*

40x. **Catechetics:** Application of modern pedagogical principles to the teaching of religion; methods, devices, aids, the Munich Method.

2 hours a week: 2 credits.

Text-books: Bennett, *Manual of Catechetics.*
Cooper, *Religion Outlines for Colleges, Course IV.*

Offered in St. Peter's College.

100x. **Christian Doctrine:** lectures, prescribed reading and essays. The Authority of the Church; Faith; the Divine Essence; the Blessed Trinity; the Creation; the Incarnation; the Redemption.

1 hour a week: 1 credit.

Text-book: Sheehan, *Apologetics and Catholic Doctrine.*

101x. **Church History:** lectures, prescribed reading and essays. Christian Antiquity and Mediaeval Church History, from the Birth of Christ to the year 1500 A.D.

2 hours a week: 2 credits.

Text-books: Birkhaeuser, *History of the Church.*
Poulet, *A History of the Catholic Church, Vols. I and II.*

200x. **Christian Doctrine:** lectures, prescribed reading and essays. God, the Sanctifier; the Sacramental System; the Last Things.

1 hour a week: 1 credit.

Text-book: Sheehan, *Apologetics and Catholic Doctrine.*

201x. **Church History:** lectures, prescribed reading and essays. The Reformation Period and Modern Church History.

2 hours a week: 2 credits.

Text-books: Birkhaeuser, *History of the Church.*
Poulet, *A History of the Catholic Church, Vols. I and II.*

Offered in Waterloo College only.

19x. **Biblical Literature:** the life of Jesus based on the Gospels.

1 hour a week: 1 credit.

Text-book: Robertson, *A Harmony of the Gospels.*

29x. **Biblical Literature:** the Book of Acts, with special attention to the life and epistles of St. Paul.

1 hour a week: 1 credit.

Text-book: *The Bible.*

39x. **Biblical Literature:** the history and literature of the Prophets.

2 hours a week: 2 credits.

Text-book: *The Bible.*

47x. **Christian Doctrine:** a Summary of the Christian Faith, setting forth the fundamental doctrines of the Sacred Scriptures from the standpoint of Evangelical Christianity.

2 hours a week: 2 credits.

Text-books: Jacobs, *A Summary of Christian Faith.*
Jacobs, *Elements of Religion.*

48x. **Church History:** lectures, prescribed reading and essays. The following parts will be given in alternate years, Part 2 in 1943-44.

1. Ancient and Mediaeval Church History.
2. The Reformation Period and Modern Church History.

2 hours a week: 2 credits.

DEPARTMENT OF ROMANCE LANGUAGES

University College

A. DOROTHY TURVILLE, PH.D., Professor
W. E. COLLIN, L. ès L., M.A., Associate Professor
H. E. JENKIN, B.A., Associate Professor
*FRANCES K. MONTGOMERY, M.A., DR. DE l'U. DE PARIS, Assistant Professor
ELEANOR C. DOHERTY, PH.D., Assistant Professor
(MRS.) ELEANOR GRANT ALLEN, B.A., Lecturer

Alma College

ALICE SMOUT, B.A., Instructor

*On leave, C.W.A.C.

Assumption College

REV. E. J. LAJEUNESSE, M.A.,	Professor
REV. J. F. MALLON, M.A.,	Associate Professor
SISTER M. ADELARD, M.A.,	Instructor
SISTER M. AIMEE DU SACRE COEUR, B.A.,	Lecturer
TERESA O'REILLY, M.A.,	Instructor
SISTER M. FRANCES EDWARD, B.A.,	Lecturer

St. Peter's College

REV. W. F. SIMPSON, M.A.,	Professor
REV. A. J. DURAND, M.A.,	Instructor

Ursuline College

*M. M. MARIE, M.A.,	Professor
M. M. ROSANNA, M.A.,	Instructor
(MME.) GEORGETTE BAIRD-BROWN,	Instructor
M. M. BENEDICT, B.A.,	Instructor

Waterloo College

W. D. EVANS, M.A.,	Professor

FRENCH

General course students may, with the consent of the Head of the Department, elect French 271, 381 and 491 as optional credits towards graduation.

10. **Intermediate French:** grammar, dictation and translation.

3 hours a week: 3 credits.

Text-books: Low, *French Grammar in Review* (Houghton, Mifflin).
Macy, *Toc, Toc, Toc* (Macmillan).
Molière, *Le Bourgeois Gentilhomme* (Ginn).

20. **Advanced French:** grammar, dictation, translation, and some training in literary appreciation.

3 hours a week: 3 credits.

Prerequisite: French 10 or Grade XIII French.

Text-books: Ritchie, *Primer of French Composition* (Macmillan).
Cattell and Fotos, *Les Trois Mousquetaires* (Crowell).
Perochon, *Le Livre des Quatre Saisons* (Century).
Turgeon, *French One-Act Plays of Today* (Holt).

30. **Outline of French Literature** (origins to 1700 A.D.):

The students registered in Secretarial Science and Business Administration will take Commercial French.

3 hours a week: 3 credits.

Prerequisite: French 20.

Text-books: Steinhauer and Walter, *Omnibus of French Literature, Volume I* (Macmillan).

*On leave, 1942-43.

39. **Outline of French Literature in English.** For students in the Honor English Course who have no reading knowledge of French. Elective also in the General Course, Senior Group.

1 hour a week: 1 credit.

Text-books: Guyer, *The Main Stream of French Literature* (Heath).
Strachey, *Landmarks of French Literature* (Home Univ. Library).
Plays by Molière (Modern Library No. 78).
Six Plays by Corneille and Racine (Modern Library No. 194).
Voltaire, *Candide* (Modern Library No. 47).
Daudet, *Tartarin de Tarascon* (Everyman's Library No. 423).
Flaubert, *Madame Bovary* (Modern Library No. 28).
Hugo, *Ninety-Three* (Collins' Pocket Classics No. 202).
Rostand, *Cyrano de Bergerac* (Modern Library No. 154).

40. **Outline of French Literature** (1700 A.D. to the present time): students in Secretarial Science and Business Administration will take Commercial French.

3 hours a week: 3 credits.

Prerequisite: French 30.

Text-book: Steinhauer and Walter, *Omnibus of French Literature, Vols. I and II* (Macmillan).

45. **Scientific French:** the reading of scientific French, from text-books and journals, supplemented by reading in the special field of research of each student.

1 hour a week: ½ credit.

Prerequisite: French 10.

Honor Courses

All students in Honor Courses will take a comprehensive examination at the end of their final year. See page 36.

270. **The Literature of the Seventeenth Century:** lectures, reading, discussion and reports.

3 hours a week: 3 credits.

Prerequisite: Junior Group 4 (page 58).

271. **Prose Composition, Grammar and Phonetics.**

2 hours a week: 2 credits.

Prerequisite: Junior Group 4 (page 58).

380. **The Literature of the Eighteenth Century:** lectures, reading, discussion, reports in French.

3 hours a week: 3 credits.

Prerequisite: French 270.

381. **Grammar, Phonetics and Conversation.**

3 hours a week: 3 credits.

Prerequisite: French 271.

An equivalent course is given also at Trois Pistoles, P.Q., during July and August.

460. **Pre-Classical Period:** Historical grammar; Mediaeval and Renaissance literature. Lectures, reading, discussion and reports.

2 hours a week: 2 credits.
Prerequisite: French 380.

490. **The Literature of the Nineteenth Century:** lectures, reading and essays in French.

3 hours a week: 3 credits.
Prerequisite: French 380.

491. **Advanced Composition, Grammar and Phonetics.**

3 hours a week: 3 credits.
Prerequisite: French 381.

An equivalent course is given also at Trois-Pistoles, P. Q., during July and August. For full details see special bulletin.

Courses Leading to the Degree of M.A.

550. **Contemporary French Poetry.**

551. **Advanced French Composition.**

553. **Old French and Philology.**

560. **The Literature of French Canada.**

ITALIAN

20. **Elementary Course:** grammar, pronunciation, translation of simple texts. Not given in 1943-44.

3 hours a week: 3 credits.

Text-books: Russo, *First Year Italian* (Heath).
Wilkins and Marinoni, *L'Italia* (Chicago Press).
Collodi, *Avventure di Pinocchio* (Heath).
Goggio, *Six Easy Italian Plays* (Heath).
Cantarella and Richards, *Dieci novelle contemporanee* (Holt).

30. **Outline of Italian Literature:** translation and composition.

3 hours a week: 3 credits.
Prerequisite: Italian 20.

Text-books: Cioffari, *Italian Review Grammar* (Heath).
Oxford Book of Italian Verse.
Dante, *La Divina Commedia* (Heath).
Goldoni, *La Locandiera* (Holt).
Manzoni, *I Promessi Sposi* (Heath).
Pirandello, *Così è se vi pare* (Heath).

220. Identical with 20.

330. Identical with 30.

SPANISH

10. **Elementary Course:** grammar, pronunciation, dictation, translation, memorization of short fables and poems.

3 hours a week: 3 credits.
Prerequisite: Admission Requirements (p. 32.)

Text-books: Barlow, *Basic Spanish* (Crofts).
Stover, *Encanto de Mexico* (Macmillan).
Tatum, *Por onda corta* (Houghton, Mifflin).

20. **Advanced Spanish:** grammar, dictation, translation, and some training in literary appreciation.

3 hours a week: 3 credits.
Prerequisite: Spanish 10 or equivalent.

Text-books: Whitmore, *The Handbook for Intermediate Spanish* (Norton).
Walsh, *Cuentos y Versos Americanos* (Norton).
Azuela, *Los de abajo* (Crofts).

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

2 hours a week: 2 credits.
Prerequisite: Spanish 20 or equivalent.

31. **Grammar, Composition and Conversation.**

1 hour a week: 1 credit.
Prerequisite: Spanish 20 or equivalent.

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

2 hours a week: 2 credits.
Prerequisite: Spanish 30 or equivalent.

41. **Advanced Composition and Conversation.**

1 hour a week: 1 credit.
Prerequisite: Spanish 31 or equivalent.

Honor Courses

220. Identical with 20.

260. **Lyric Poetry:** prescribed for Honor Spanish students of the second year along with Spanish 220.

1 hour a week: 1 credit.

330. Identical with 30.

331. Identical with 31.

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

2 hours a week: 2 credits.
Prerequisite: Spanish 220, 260.

440. Identical with 40.

441. Identical with 41.

450. **Spanish Ballad and Lyric Poetry and Early Novel.**

2 hours a week: 2 credits.
Prerequisite: Spanish 360 or equivalent.

453. **Phonology and Morphology of Spanish:** supplementary to 450.

1 hour a week: 1 credit.
Prerequisite: Spanish 360.

DEPARTMENT OF SECRETARIAL SCIENCE

MARGARET G. KEYES (MRS. DAVID ROBINSON) Graduate, Kensington College.	Associate Professor
MARY H. GILLESPIE, M.A.,	Assistant Professor
JEAN HARDY, B.A.,	Instructor
MABEL A. HYND,	Assistant
(MRS.) ELAINE WOODROW CHAPMAN, B.A.,	Lecturer
(MRS.) HILDA GRANT WATSON, B.A.,	Lecturer

Students are warned that the difficulty of adjusting timetables makes it impossible for those who are unable to pass the final tests of each year to take general Arts subjects of a succeeding year in conjunction with their Shorthand and Typewriting. Therefore students who fail to pass in one or more of their subjects are faced with the possibility of having to lose an entire year.

Students taking courses in this department will be charged a laboratory fee of four dollars in each of the second, third and fourth years.

28-29. **Shorthand and Typewriting:**

Pitman's Shorthand: theory; speed up to 60 words a minute, and typed transcription of notes. Touch system of typewriting; care of machine; letter styles; copying from manuscript and printed matter; centring; accuracy and time tests.

12 hours a week: 6 credits.

Prerequisite: first year of the course (page 59) without conditions.

Text-books: *Pitman Shorthand* (Canadian Centennial Edition).
Pitman's Shorthand Dictionary.
Stuart, *Complete Typewriting Course.*

37. **Office Practice:** the foundation of the work in Office Practice is laid in the third year. Lectures are given on office methods, and actual duties are undertaken in the Secretarial Science Office of the University.

5 hours a week: 3 credits.

Prerequisites: Secretarial Science 28-29.

38-39. **Shorthand and Typewriting:**

Shorthand speed up to 100 words a minute; typed transcription of notes; typewriting from manuscript; tabulation; carbon copies; telegrams; financial statements; legal documents; methods of duplicating; accuracy and time tests.

12 hours a week: 6 credits.

Prerequisites: Secretarial Science 28-29.

Text-books: *Pitman's Shorthand Dictionary.*
Stuart, *Complete Typewriting Course.*

47. **Office Practice:** the responsible duties of the various members of an office staff and the operation of modern office equipment are undertaken by the fourth year students. Units of work are assigned in rotation. Lectures are given on secretarial duties, office organization, the administration of services, the problem of office personnel.

15 hours a week: 7 credits.

Prerequisites: Secretarial Science 37, 38-39.

48-49. **Shorthand and Typewriting:**

Shorthand speed up to 130 words a minute; typed transcription of notes; typewriting: speed up to 60 words a minute; typing from advanced copy (technical matter, foreign languages) and from dictation.

10 hours a week: 5 credits.

Prerequisites: Secretarial Science 38-39.

Text-book: *Pitman's Shorthand Dictionary.*

THEOLOGICAL OPTIONS

Offered by Huron College

Apologetics

REV. H. E. MERIFIELD, B.A., B.D.

10ax. **Philosophical Theism:** proofs of the existence of God; the Divine attributes, etc.; the anti-theistic conceptions of God—Polytheism, Dualism, Materialism, Pantheism, Deism, Agnosticism; the theistic conceptions of God, e.g. Hebrew Monotheism, Theistic Dualism, Christian Theism, modern forms of Theism.

10bx. **Christian Evidences:** the Christian Revelation; the Life, Person, Teaching, Miracles, Resurrection of Jesus, His Influence on the World.

2 hours a week: 2 credits.

References: Harris, *Pro Fide* (John Murray).
Gore, *Belief in God* (John Murray).
Garvie, *The Christian Belief in God* (Hodder and Stoughton).
Galloway, *The Philosophy of Religion, Parts 2 and 3.*
Gore, *Belief in Christ.*
Robbins, *A Christian Apologetic* (Longmans).
Paley, *Evidences.*
Tillett, *The Paths that Lead to God* (Cokesbury).

Biblical Literature

REV. A. H. O'NEIL, B.A., B.D.
REV. M. B. PARKER, M.A., B.D.

(The English Bible is the Text-book in all these courses.)

10x. **Old Testament:** background and history of the Old Testament. The geography of Palestine, and the history of the Hebrew people from Abraham to the Grecian period. The growth of the Sacred writings, religious customs and worship.

1 hour a week: 1 credit.

11x. **New Testament:** history of the New Testament times. A survey of the Graeco-Roman world, its political, social and religious condition at the time of the origin of Christianity. Particular reference to Jewish history, 175 B.C. to 70 A.D.

1 hour a week: 1 credit.

Reference: Fairweather, *Background of the Gospels* (T. and T. Clark).

20x. **Old Testament:** Books of the Law, and Historical writings. A study of the books of the Pentateuch; a more detailed study of Hebrew sacred history from the books Joshua to Esther.

1 hour a week: 1 credit.

21x. **New Testament:** the Synoptic Gospels, and the Acts of the Apostles. Special study of the Life and Teaching of Jesus.

1 hour a week: 1 credit.

Reference: McNeile, *Introduction to the New Testament* (Oxford).

30x. **Old Testament:** the Prophets and their message. An interpretation of the lives and teachings of the Literary Prophets.

1 hour a week: 1 credit.

31x. **New Testament:** the Pauline Epistles, and the Epistles to the Hebrews.

1 hour a week: 1 credit.

Reference: McNeile, *Introduction to the New Testament* (Oxford).

40x. **Old Testament:** Old Testament Poetry and Philosophy. A study of the Psalms and other poetical books; Job, Ecclesiastes, Proverbs; and the Apocalyptic Literature.

1 hour a week: 1 credit.

41x. **New Testament:** the Johannine Writings, and the Catholic Epistles.

1 hour a week: 1 credit.

Reference: McNeile, *Introduction to the New Testament* (Oxford).

Church History

REV. M. A. GARLAND, M.A., L.TH.

10ax. **Early and Mediaeval Church History (to 1377):** lectures, prescribed readings and essays: the background of Christianity; its organization; the persecutions; the controversies; the rise and growth of the Papacy; Monasticism; Christian Literature; the Orders; the Crusades; the relation of the Church to political, social and economics movements.

3 hours a week: 1½ credits.

41x. **History of the Church in England (1603 to the present):** lectures, prescribed readings and essays: the religious experiments of the seventh century; the Evangelical Revival; the Oxford Movement; Missions; the attitude of the Church to economic, social and humanitarian movements.

3 hours a week: 3 credits.

Homiletics

REV. A. A. TRUMPER, L.TH.

19x. **Public Reading:** preparation and delivery of sermons
1 hour a week: 1 credit.

Text-books: Philips, *Effective Speaking*, or
Winans, *Public Speaking*.
Curry, *Vocal and Literary Interpretation of the Bible*.

29x. **Advanced Class.**
1 hour a week: 1 credit.

Text-books: Bull, *Preaching and Sermon Construction*.
Garvie, *The Christian Preacher*.
Phillips Brooks, *Lectures on Preaching*.
Butterick, *Jesus Came Preaching*.

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SUMMARY OF REGISTRATION IN FACULTY OF ARTS

1942-43

Year in Course	University College	Alma College	Assumption College	Huron College	Ursuline College	Waterloo College	St. Peter's College	Totals
Full Time:								
First	72	.....	162	3	10	18	8	273
Second	301	.....	46	6	10	12	22	397
Third	144	.....	28	4	17	13	18	224
Fourth	121	.....	31	1	8	9	9	179
Graduate	11	.....	5	.....	.....	.....	.....	16
Part Time:								1,089
Graduate	10	.....	2	.....	6	1	.....	19
Undergraduate	16	.....	50	.....	3	1	.....	70
								1,178
Extramural 237	.....	.....	.....	.....	.....	.....	.....	237
Summer School 252	.....	.....	.....	.....	.....	.....	.....	252
Extension 325	.....	.....	.....	.....	.....	.....	.....	325
TOTALS 814	675	.....	324	14	54	54	57	1,992
Duplicates 249 + 565								249
Faculty of Arts								1,743
Faculty of Medicine								229
Faculty of Public Health								30
University Total								2,002

REGISTRATION IN FACULTY OF ARTS

1931-32—1942-43

Year	University College	Alma College	Assumption College	Huron College	Ursuline College	Waterloo College	St. Peter's College	Duplicates	Net Total
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
1939-40	2,043	3	290	11	42	64	43	377	2,119
1940-41	1,985	15	307	11	67	74	42	340	2,161
1941-42	1,772	5	313	13	76	46	47	281	1,991
1942-43	1,489	.....	324	14	54	54	57	249	1,743