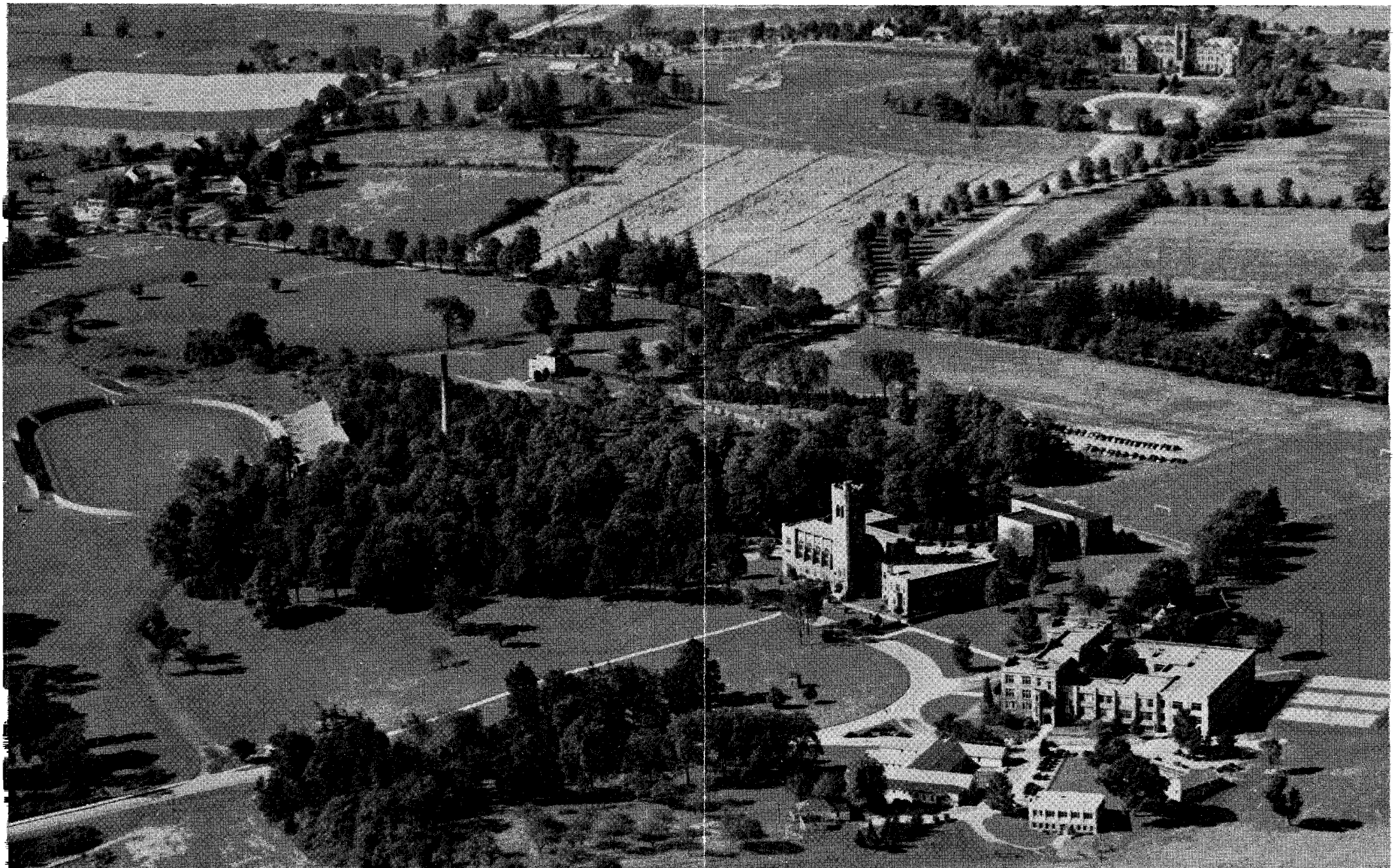
UNIVERSITY OF WESTERN ONTARIO

LONDON - CANADA

FACULTY of ARTS and SCIENCE

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

Announcement 1948-1949



LITTLE MEMORIAL STADIUM

Cronyn Memorial Observatory

(at extreme top of photo) BRESCIA HALL

LAWSON MEMORIAL LIBRARY

ARTS AND ADMINISTRATION BUILDING

McIntosh Memorial Bldg.

NATURAL SCIENCE BLDG.

Fingal Hall

Botany Bldg.

J. B. Collip Medical Research Bldg.

THE MAIN CAMPUS - UNIVERSITY OF WESTERN ONTARIO

Objectives

The Arts and Science 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 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 limited time and for youths from all sorts and conditions of home, family and school background and environment, offer that opportunity to understand and grasp the rich human inheritance which it is the first business of the college to transmit."

*The late Nicholas Murray Butler, former President of Columbia University.

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Calendar for 1948

1948 JANUARY 1948

SUN	MON	TUE	WED	THU	FRI	SAT
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1948 FEBRUARY 1948

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Calendar for 1949

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CALENDAR OF FACULTY OF ARTS AND SCIENCES

1948

July 5, Monday . . . . . Registration Day for Summer Session.

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

September 1, Wednesday . . . . Last day for receiving applications and certificates for the fall term.

September 20, Monday . . . . . Registration of first year students.

September 21, Tuesday . . . . . Registration of first year students (continued).

September 22, Wednesday . . . Psychological tests; Orientation lectures.

September 23, Thursday . . . . . Orientation lectures; student meetings.

September 24, Friday . . . . . Registration of second, third and fourth year students from London, and from Middlesex and Elgin Counties.

September 25, Saturday . . . . . Registration of second, third and fourth year students from other centres.

September 27, Monday . . . . . Lectures begin. Late registration penalty of seven dollars (including five dollars for late physical examination).

October 9, Saturday . . . . . Last day of registration for full-time undergraduate students and for all graduate candidates

October 19, Tuesday . . . . . Annual Field Day; afternoon classes cancelled from 1:30.

October 22, Friday . . . . . Autumn Convocation.

October 29, Friday . . . . . Presentation of academic awards.

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

1949

January 3, Monday . . . . . Lectures resume.

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

January 17, Monday . . . . . Second term begins.

April 15, Friday . . . . . Lectures cancelled.

April 23, Saturday . . . . . Lectures for second term close.

May 2, Monday . . . . . Examinations begin.

June 8, 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,	*Lieutenant-Governor-in-Council*
MR. J. B. HAY,	*Board of Governors*
MR. FRANK FORRISTAL, K.S.G.,	*Lieutenant-Governor-in-Council*
LIEUT.-COL. GORDON INGRAM,	*London City Council*
MR. A. T. LITTLE,	*Board of Governors*
MR. JAMES A. MCNEVIN, K.C.,	*Board of Governors*
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*
MR. J. GORDON THOMPSON,	*London City Council*
LIEUT.-COL. D. B. WELDON, M.C.,	*Lieutenant-Governor-in-Council*

Officers of the Board

MR. A. T. LITTLE,	Chairman
LIEUT.-COL. GORDON INGRAM,	Vice-Chairman
MR. ROSS B. WILLIS,	Secretary

The Senate

Ex officio Members: The Chancellor, the Vice-Chancellor, the President, the Vice-President, the Registrar, the Director of the Summer School and Extension Department, and the Librarian.

Elected Members: Two representatives of the Faculty of each of the following: the Medical School, the School of Nursing, University College, Huron College, Assumption College, St. Peter's College, Ursuline College, Waterloo College; one representative from each of Alma College, the Western Ontario Conservatory of Music, Music Teachers College; one representative of the graduates of each of the Colleges and Schools in the University; four representatives elected by the Principals of the Secondary Schools in Western Ontario; one representative of each County and City Council in the Counties of Brant, Bruce, Elgin, Essex, Grey, Huron, Kent, Lambton, Middlesex, Norfolk, Oxford, Perth, Waterloo and Wellington. The Board of Governors and the London City Council each elects two additional representatives, and the London Board of Education and the London Separate School Board, one each.

Officers of the Senate

Chairman, The President and Vice-Chancellor
Secretary, The Registrar.

Executive Committee: The Chancellor, the Vice-Chancellor; the President; the Vice-President; the Secretary; the Head (or his Deputy) of University College, Medical School, School of Nursing, 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 HONOR, THE LIEUTENANT-GOVERNOR OF ONTARIO, Toronto, Ontario

Chancellor

ARTHUR RUTHERFORD FORD
B.A., Toronto, 1903. 1947

President

GEORGE EDWARD HALL, M.S.A., M.D., Ph.D., F.R.S.C.
B.S.A., Toronto, 1929; M.S.A., *ibid.*, 1931; M.D., *ibid.*, 1935; Ph.D., *ibid.*, 1936; F.R.S.C., 1944; Professor of Medical Research and Dean of Medicine, 1944; President and Vice-Chancellor, 1947. 1944

Vice-President and Dean of Graduate Studies

FRED LANDON, M.A., F.R.S.C.
B.A., 1906; M.A., 1919; F.R.S.C., 1929; Librarian, 1923; Vice-President, 1946; Dean of Graduate Studies, 1947. 1917

Registrar

HELEN M. B. ALLISON, M.A.
B.A., 1924; M.A., Minnesota, 1941; Assistant Registrar, 1932; Associate Registrar, 1935; Registrar, 1947. 1924

Comptroller

ROSS BAXTER WILLIS, M.A.
B.A., 1931; M.A., 1933; Assistant Professor of Business Administration, 1939; Associate Professor and Acting Head of the Department of Business Administration, 1942; Professor, 1944; Comptroller, 1945. 1939

Director of Extension and Summer School Department

STAR FLOYD MAINE, M.A., B.D., Ph.D.
B.A., 1917; B.D., Victoria, 1919; M.A., Chicago, 1922; Ph.D., *ibid.*, 1932; Assistant Professor of History, 1926; Director of Extension, 1928; Associate Professor, 1932; Director of Extension and Summer School, 1947. 1926

Librarian

JAMES JOHN TALMAN, M.A., Ph.D.
B.A., 1925; M.A., 1927; Ph.D., Toronto, 1930; Assistant Librarian, 1939; Associate Professor of History, 1947; Librarian, 1947. 1939

Dean of Women

LEOLA ELLEN NEAL, Ph.D.
B.A., 1933; M.A., 1935; Ph.D., Toronto, 1942; Instructor in Psychology, 1942; Assistant Professor, 1945; Dean of Women, 1946. 1933

Veterans' Counsellor

THOMAS LESLIE HOSKIN, B.A.
B.A., 1935 1945

Assistant Registrar

OLGA ALICE MILLER, B.A.
B.A., 1928. 1933

Assistant Librarian

KATE M. GILLESPIE, B.A.
B.A., McGill, 1921. 1922

Curators of the Museum of Indian Archaeology

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

Honorary Historian

JOHN DEARNESS, M.A., LL.D., F.R.S.C.

Administrative Council

PRESIDENT HALL, *Chairman;* VICE-PRESIDENT LANDON; DEANS COLLIP, KINGSTON, MCDOWELL, NEAL; ASSOCIATE PROFESSOR F. STILING, *Secretary;* T. L. HOSKIN, *Acting Secretary.*

FACULTY OF ARTS AND SCIENCE

Faculty Council

Chairman, THE PRESIDENT
Secretary, THE REGISTRAR

DEAN H. R. KINGSTON,	*Faculty of University College*
PROFESSOR F. LANDON,	*Faculty of University College*
PRESIDENT J. H. O'LOANE,	*Faculty of Assumption College*
REV. J. F. MURPHY,	*Faculty of Assumption College*
MOTHER M. ST. JAMES,	*Faculty of Ursuline College*
MOTHER M. IGNATIUS LOYOLA,	*Faculty of Ursuline College*
RT. REV. A. P. MAHONEY,	*Faculty of St. Peter's College*
REV. J. H. POCOCK,	*Faculty of St. Peter's College*
DEAN L. SCHAUS	*Faculty of Waterloo College*
PRESIDENT H. T. LEHMANN,*	*Faculty of Waterloo College*
PRINCIPAL A. H. O'NEIL,	*Faculty of Huron College*
PRINCIPAL BRUCE MILLAR,	*Faculty of Alma College*

Officers of Administration

University College

(London, Ontario)

Dean

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

Secretary

D. A. MCLARTY, PH.D.

Director of Summer School and Extension Department

S. F. MAINE, M.A., B.D., PH.D.

Representative on the Athletic Board

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

General Information

ORGANIZATION OF THE UNIVERSITY

The University of Western Ontario is composed of three units: the College of Arts and Science (University College), the Medical School and the School of Nursing; 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. Also affiliated with the University are Music Teachers College, which offers a two-year course in Arts and Music, and the Western Ontario Conservatory of Music.

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." In 1917 it became the Faculty of Public Health of the University, the first independent Faculty of Public Health in the British Empire, and in 1946 one section of it became a Provincial Laboratory and the other section the University School of Nursing.

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

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 Science in Nursing (B.Sc.N.); Bachelor of Science (Laboratory Assistant) (B.Sc.L.A.); *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.); Doctor of Philosophy (Ph.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.); Certificate in Hospital Administration (C.H.A.); Music Graduate in Paedagogy (Mus. G.Paed.).

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 142,000 is housed in the Lawson Memorial Library, erected in 1934. The Medical School Library contains more than 33,000 volumes. The Library of the School of Nursing is maintained as a working collection of books and journals and contains about 2,000 volumes. Thus the combined libraries contain more than 177,000 volumes.

Although this is a fairly large collection and compares favorably 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 collection 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

*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.

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.

UNIVERSITY HEALTH SERVICES

(i) 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.

(ii) 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.

The maximum claim for one student is $175.00. For the protection, however, of students engaged in competitive athletics, the Athletic Association pays the Assurance Company an additional premium for students for whom special protection is provided to a maximum of $300.00 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.

Health insurance privileges are extended also to students registered in affiliated colleges, if they are resident in London or St. Thomas during its academic year.

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 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, Nursing) is given a ticket of membership in the series which entitles him or her to admission to all concerts.

Regulations

ADMISSION

Candidates seeking admission must present to the Registrar, before September first, an official statement of the marks on which their certificates were awarded. For the evaluation of non-Ontario certificates a fee of $2.00 is charged. This sum must accompany the certificates, and is not returnable.

In the affiliated Colleges and in a *few courses in University College a candidate may be admitted to the first year in Arts on presentation of a Secondary School Graduation Diploma (or the equivalent), showing satisfactory completion of the following Grade XII subjects:

I. English and 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 used.

No Option may be counted more than once.

A candidate presenting Grade XIII certificates or the equivalent in at least four 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.

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), ***Music, ****Mathematics of Investment, Accountancy Practice, Secretarial Practice.

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 per cent. of the marks assigned to that subject, and at least fifty per cent. 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.

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*Home Economics, Nursing, Secretarial Science, and Theology. Even in these courses, a preference for admission is given to candidates with at least some Grade XIII standing.

**For the Music option, the following Certificates of the Western Ontario Conservatory of Music will be accepted:
Grade VII, Practical, and Grade II, Theory.

***For Music, the following Certificates of the Western Ontario Conservatory of Music will be accepted: Grade VIII, Practical, and Grade II, Theory.

****An alternative for Algebra.

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.

ADMISSION ON 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.

ADMISSION WITH 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 25, 28, 29, 30.

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 before September first. These official documents must include a certificate of honorable 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.

ADMISSION OF ADULT SPECIAL STUDENTS

Students who are over twenty-one years of age, though they may not be able to present qualifications for admission to candidancy for degrees, may be admitted to a few courses in the Faculty of Arts and Science 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.

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*In University College, all applicants at the Grade XII level and all Grade XIII applicants with averages below 60% are required to take an aptitude test to be held early in September and to have an interview with a member of the Admissions Committee before acceptance.

REGISTRATION

All students in Arts must register each year in either University College or one of the affiliated Colleges. See page 5 for dates for registration.

Junior Groups

Students presenting Grade XII or Grade XII and Grade XIII certificates will register in one of the Junior Groups (page 24) or one of the special courses (pp. 24-5), subject to the admission requirements for those courses.

Grade XIII standing in any subject will exempt a student from the first year of the general course in the same subject (except the sciences), if that subject is included in a Junior Group. (For details of allowances, see page 25).

Senior Group or Honors

Students who have completed a Junior Group must register either in one of the Senior Groups (pages 26-7) or in an Honors Course for which they have specific prerequisites. (See pages 35-49).

No registration of any student for any year is complete until the prescribed physical examination has been taken. (See page 11).

Medical Examination

A student on admission each year, by his registration, subscribes to the regulations as announced from time to time in the University official announcements.

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 pp. 25-30). The course for Teachers of Elementary Schools requires three years (pp. 47-8). The Honors 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 Honors Courses in Philosophy, except in University College, require four years from complete Grade XII (pp. 107 and 116).

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.

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.

EXAMINATIONS AND GRADES

General Course

Regular examinations will be held in May.

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 16). 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 Journalism, the General Science, the Home Economics, the Secretarial, the Laboratory Assistants', the Theological or the Teachers' 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 of the credits required for a Senior Group, or for the third and fourth years, and Grade C on one-half the credits of his senior year.

Honors Courses

The regular examinations for the Honors Courses will be held in May.

Candidates in the Honors 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 Honors degree (page 17).

Students in an Honors Course, who do not obtain at least third class standing in the work of the second year, are not permitted to continue in Honors. Nobody will be admitted to the fourth year of any Honors Course whose record in the third year was not at least second class.

Comprehensive Examinations

Students entering Honors 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 and Science have introduced comprehensive examinations for Honors students. These examinations, partly oral and partly written, are given at the end of the senior year and cover the broad aspect of the student's Honors Course. They are additional to the course examinations.

Term work

In all subjects of the General Course and Honors Courses the ratio of term-work marks to examination marks is determined by the teaching staff in each subject. 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.

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 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 first paragraph under **Failures,** p. 16).

Students conditioned at the May 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 six 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 Honors subjects except those offered as options by General Course students to complete the requirements of their courses.

SPECIAL EXAMINATIONS

A special examination is any examination other than the regular examination in the course involved, May or August. No special examination may be assigned except on the recommendation of the head of the department concerned, after consultation with the instructor involved. (Often students should be advised to adopt the alternative of repeating the lectures and taking the next regular examination without fee.)

No General Course student may write special examinations on more than four credits of work in one academic year. No Honors Course student may write a special examination in any academic year if he has failed in more than one Honors examination paper or has secured less than 35 per cent. on one Honors examination paper.

All special examinations will be held during the first full week in September. No special examination will be set within three months of failure.

A special examination may be written only at the college in which a student is registered.

FAILURES

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 has not by regular examinations, supplementals and/or specials, cleared two-thirds of the credits of his final approved registration for any academic year, must withdraw from the University for at least one year.

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

A candidate in an Honors 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 Honors degree.

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

APPEALS

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

GENERAL REGULATIONS

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. No student may begin two foreign languages in the same year.

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 of the academic year in which he 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 $11.00 a credit and the usual laboratory and caution fees will be charged.

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 recognzed.

For information about Student Government and Organizations, see the Student Handbook.

REGULATIONS GOVERNING TEACHERS' COURSES AND CERTIFICATES

(i) Course for Teachers of Elementary Schools

University College offers a course for those who for various reasons find it impossible to attend the winter sessions for all the work necessary for a degree in Arts. For outline of course see pages 31-2. It is completely available through the Extension and Summer School Department.

(ii) A Permanent First Class Certificate

Students who hold an Interim First Class Certificate may satisfy the academic requirements for a Permanent Certificate by taking 15

credits of University courses. This work must include English 20 and 21; the other credits may be chosen from the General Course or from the Course for Teachers of Elementary Schools. For any exceptions to this regulation, consult a Department of Education pamphlet on this subject.

(iii) 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 Honors Degree in Arts or Science in accordance with the present agreement as prescribed for Specialist qualifications (see section iv below); 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 2, Ont.

(iv) 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 Honors degree in Arts or in Science (66 per cent.) is the academic standing for admission to the courses leading to High School Assistant's Certificate Type A in Classics, Commerce, English, English and French, English and Latin, French and German or Spanish, History, Latin and French, Mathematics, Mathematics and Physics, Science.

For the University of Western Ontario, the courses in the departments specified above shall be the Honors Courses as defined in the Announcement of the Faculty of Arts and Science for 1948–1949.

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 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 Type A standing should consult the Registrar.

REGULATIONS GOVERNING THE EXTENSION AND SUMMER SCHOOL DEPARTMENT

(i) CORRESPONDENCE WORK

A correspondence 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 corresponding intramural courses.

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.

Courses in the Sciences (including Psychology), in the elements of any foreign language, and honors courses not also given as general 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 week of July and continues thereafter for six weeks.

The subjects offered in the Summer School are taken from the courses of the winter session for General Course students, or from the Teachers' Course. No Honors 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 extension work is contained in the Summer School Announcement and the Bulletin on Summer School and Extension Work. These may be had by applying to the Registrar or to the Director of the Summer School and Extension Department.

University College also conducts at Trois-Pistoles, Quebec, a seven 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 from 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 to the University Registrar.

REGULATIONS GOVERNING ADVANCED DEGREES
(i) THE MASTER'S DEGREE

A candidate must be a graduate of the University of Western Ontario or of some other accredited university. Graduates of this or other accredited universities may be accepted as candidates for the degree after they have presented to the Dean of the Faculty of Graduate Studies official evidence of graduation and have satisfied the appropriate sub-committee on Graduate Studies as to their qualifications.

The duration of the course will be adjusted individually for each candidate. A minimum of one year in residence will be required of graduates in Medicine or graduates from Honors Courses in Arts or Science. If more than six hours a week are spent in teaching or other departmental duties, at least two years in residence will be required. An additional year will also be required of candidates with pass degrees.

A thesis, incorporating the results of an investigation in the field of the major subject shall be required from all candidates in the Faculty of Medicine and from candidates in the departments of Natural Science, and normally from all other candidates. Within three months of registration in his final year of graduate studies the candidate must submit to the Dean of the Faculty of Graduate Studies the general subject of his proposed research. Two typewritten copies of the thesis must be in the hands of the Dean two weeks before the final oral examination, and must be accompanied by the required fee, and an abstract of not more than five hundred words. If approved, both copies of the thesis, bound in the form approved by the librarian, shall become the property of the University.

The course of study shall comprise one major subject and one or more minor subjects. Minor subjects may be taken in the Faculty of Arts and Science or the Faculty of Medicine or in both faculties. If a minor subject is taken in the department in which the major subject is taken, a second minor may, at the discretion of the appropriate sub-committee on Graduate Studies, be required in another department. The major and minor subjects must be approved by the Head of the Department in which the student is majoring and by the appropriate sub-committee on Graduate Studies.

It is essential that the candidate for a Master's Degree have a reading knowledge of at least one language other than English. The language or languages shall be chosen in consultation with the Head of the Department in which the student is majoring. The candidate must furnish evidence of such reading knowledge either in the form of university credits or by passing an examination conducted by the language department concerned.

Examinations shall be conducted in accordance with the regulations in force for each Faculty, as approved by the Faculty of Graduate Studies.

The Master's Degree with Honors may be granted to a candidate at the discretion of the Faculty of Graduate Studies on the recommendation of the member of the Faculty in charge of the candidate's research and of the appropriate sub-committee of the Faculty of Graduate Studies.

When consideration is being given to a candidate for a higher degree coming from an affiliated college, the head of that college, or his deputy, shall be *ex officio* a member of any examination committee which deals with the particular candidate's case.

(ii) THE LL.B. DEGREE

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

(a) An Honors 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 p. 83):
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.

(iii) THE PH.D. DEGREE

The Degree of Doctor of Philosophy will be granted only to candidates who have exhibited a high aptitude and attainment in research and have presented, in a scholarly manner, a thesis containing an original contribution to knowledge.

A candidate must be a graduate of an accredited university. He must have either a Bachelor's Degree with Honors (or its equivalent) or a Master's Degree or a degree in Medicine. A student who wishes to work for the degree of Doctor of Philosophy must first satisfy the Dean of the Faculty of Graduate Studies that he has the necessary qualifications.

The period of study and of required residence will be determined by the academic qualifications of the candidate and by his previous experience in research. Usually three academic years will be required; the time may be reduced to two years if the candidate has a Master's degree. If more than six hours a week are spent in teaching or other departmental duties, the period of study will be extended.

With the consent of the Head of the Department and with the approval of the appropriate sub-committee of the Faculty of Graduate Studies, permission may be granted to a candidate to study elsewhere for a maximum period of one year; such studies may be credited towards the degree.

Applications for registration submitted later than three months after the date on which the course was begun will be approved only on recommendation of the Head of the Department and of the appropriate sub-committee of the Faculty of Graduate Studies. A whole-time student may be granted retrospective registration for not more than one academic year.

The course of study to be followed by a candidate for the degree of Doctor of Philosophy shall be determined by the head of the department in which the candidate is working and shall be approved by the Faculty of Graduate Studies.

The thesis must consist of the candidate's own account of his research. It may describe work done in conjunction with his supervisor if the candidate clearly states his personal share in the investigation and this statement is certified by his supervisor. The candidate must indicate in what respects his investigations have increased the knowledge of the subject.

The candidate will be required to submit with his thesis a short abstract of not more than five hundred words.

A candidate will not be permitted to submit a thesis for which a degree has been previously conferred. Permission may be given to a candidate by the appropriate sub-committee of the Faculty of Graduate Studies to incorporate in his doctoral thesis work included in a previous thesis.

Not less than one academic year before he proposes to take his final examination, the candidate must submit to the Dean of the Faculty of Graduate Studies the general subject of his research. Two typewritten copies of the thesis must be in the hands of the Dean four weeks before the oral examination, and must be accompanied by the required fee. If approved, the thesis, bound in the form approved by the librarian, shall become the property of the University.

The candidate for the degree of Doctor of Philosophy must have a reading knowledge of two languages other than English. The languages shall be chosen in consultation with his supervisor. The candidate must furnish evidence of such reading knowledge, either in the form of university credits or by passing an examination conducted by the language department concerned.

Examinations shall be conducted in accordance with the regulations in force for each faculty, as approved by the Faculty of Graduate Studies. In all cases, one of the examiners of the thesis shall be external to the University.

When consideration is being given to a candidate for a higher degree coming from an affiliated college, the head of that college, or his deputy, shall be *ex officio* a member of any examination committee which deals with the particular candidate's case.

Fees

Fees are paid in full on registration day, but if necessary they may be divided, after consultation with the Comptroller, into two instalments payable on the first day of each term. The extra charge for this division is $5.00. Students must pay their fees as above before attending any lectures or examinations, except by permission of the Dean of the Faculty and the Comptroller. No student shall be recommended for any certificate, diploma or degree until his tuition fees and other accounts owed to the University are paid.

*** The Board of Governors reserves the right to amend fees after the printing of this list.

Tuition and Prescribed Accessory Fees

For FULL-TIME intramural students, including full-time graduates **

(this annual sum includes regular examinations and registration fees, laboratory and microscope charges, University Students' Commission, University Concert Series, Athletic Association, Surety Bond, and Students' Health Insurance fees, for the following courses):

Science (Pass and Honors), Laboratory Assistants, Home Economics, Nursing, Intensive Business Adminstration, Physical Education	$270.00*
Business Administration, Journalism, Psychology and Secretarial Science	$235.00*
All other courses	$230.00*

*(1) This sum is increased by $5.00 if payment is not made in one instalment.
(2) For DVA students these sums will be $255, $220 and $215, respectively, because Student Health Insurance and Health Services Fees are not included.
(3) For non-Canadian students these sums will be $450, $400 and $390 respectively.

For PART-TIME students, including part-time graduates**

First Registration, payable once only	$ 5.00
Tuition—Intramural, Summer School, Extension and Extramural, each credit, including examination if written at University College	11.00
Presiding fee for examination at an outside centre, each half-day	$1.00 to 3.00
Laboratory and microscope fees, each science	10.00

Examinations

(Payable at time of application for any of the following):

Supplemental, each paper	5.00
maximum	15.00
Special, at date other than May or August, each paper	15.00
LL.B. Course, each paper	20.00
Medical Aptitude Test	5.00
Graduate Record Examination	5.00

Late Registration

(Including late physical examination) (for intramural students only) $7.00 to 8.00

Certificates

Evaluation of non-Ontario certificates for admission	2.00
Transcript of record, each copy	1.00

Degrees and Diplomas

(Payable May 1st for Spring graduation, October 1st for Fall):

Degree of B.A. or B.Sc.	10.00
Degree of M.A., M.Sc., or LL.B.	20.00
Degree of B.D.	24.00
Diploma in Intensive Business or Public Administration	10.00

**Holders of National Research Council, Ontario Research Commission, and other graduate bursaries, shall be excused only their tuition fees to a maximum of $150.

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:

Tuition, etc.	$230.00 to $270.00
Board (30 weeks)	270.00 to 360.00
Books and Supplies	50.00 to 75.00
	$550.00 to $705.00

Explanation of Number and Credit System

First year general courses are numbered between 10 and 19.

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

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

Fourth year general courses are numbered between 40 and 49; fourth year honors 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.

A course whose number is lower than 10 is, in difficulty and quantity, equal to a Secondary School Grade XII course in the same subject.

One credit represents the weight of a lecture course which meets one hour a week throughout the academic year or two hours a week in one term; one credit in a laboratory period represents two hours a week throughout the year, or four hours a week in one term.

Requirements For B.A. and B.Sc. Degrees

All students, on entering the Faculty of Arts and Science, will register in one of the following courses. At the end of two years from Grade XII or one year from Grade XIII standing in four acceptable subjects, a student may complete a non-specialized General Course in two additional years or transfer to an Honors Course (if he meets the requirements) to graduate in three additional years. In University College Grade XII standing is accepted for entrance to the following courses only, and even in these courses a preference for admission is allowed to those who hold Grade XIII standing: Home Economics, Nursing, Secretarial Science, Theology.

I. (a) JUNIOR GROUP 1—Leading to Senior Group A, page 26, for General Course degree, with Science options, or to
Honors Mathematics or Honors Science Courses.

(b) JUNIOR GROUP 2— Leading to Senior Group B, page 27, or Journalism, page 33, for General Course degree, or to
Honors Business Administration,
Honors Business Administration and Secretarial Science,
Honors Economic and Political Science,
Honors English and Philosophy,
Honors Philosophy and Psychology, (except in affiliated colleges, see pages 107 and 116.
Honors Social Science.

(c) JUNIOR GROUP 3—Leading to Senior Group B, page 27, for General Course degree, or to
Honors English Language and Literature,
Honors English and French,
Honors English and Latin,
Honors English and Philosophy,
Honors History.

(d) JUNIOR GROUP 4— Leading to Senior Group B, page 27, for General Course degree, or to
Honors Classics.
Honors French and German,
Honors French and Latin,
Honors French and Spanish.

II. SECRETARIAL SCIENCE COURSE, pages 27-8.

III. THEOLOGICAL COURSE, pages 28-9.

IV. NURSES' COURSE—Leading to the degree of Bachelor of Science in Nursing, pages 29-30.

V. HOME ECONOMICS COURSE, pages 30-1.

VI. TEACHERS' COURSE, pages 31-2.

VII. JOURNALISM: See Junior Group 2 above.

VIII. GENERAL SCIENCE—Leading to a General Course degree with Science options, or to Honors General Science, or to Medicine, pages 33-4, 43.

IX. LABORATORY ASSISTANTS' COURSE, page 34.

X. PHYSICAL EDUCATION, Health and Recreation, page 48.

I. GENERAL COURSE

REQUIREMENTS FOR ADMISSION: Secondary School Graduation Diploma (page 12) in the affiliated colleges; Grade XIII in four acceptable subjects in University College.

Advance Standing

Credit will be allowed for certificates in Grade XIII English (10, 11), Algebra or Math. of Investment (Math. 10), Geometry (Math. 12), Trigonometry (Math. 18), Latin (10), Greek (10), French (10), German (10 or 35), History (14), Spanish (10), Botany and Zoology (Biological Science 11), Physics and Chemistry (Physical Science 11). A minimum average of III Class is required to cancel Biological Science 11 or Physical Science 11; credit will not be allowed for one of the two papers involved. At least one science course, with laboratory, must be taken in the University.

Each Junior Group is a two-year program from Grade XII (High School Graduation), or approximately one year's work from Grade XIII standing in the following subjects:

Junior Group 1: English, Mathematics (three papers), French, Chemistry and Physics.

Junior Group 2: English, Mathematics (any two papers) or Latin; a foreign language; another foreign language or a pair of science papers (Botany and Zoology OR Physics and Chemistry) or History.

Junior Group 3: English; Mathematics (any two papers) or Latin; two foreign languages. History is advisable also.

Junior Group 4: English; Latin; two other foreign languages; or English, Mathematics (any two papers) and two foreign languages including Latin. A third foreign language is advisable.

The Department of Education of Ontario approves of a degree in the General Course as the academic qualification for an ordinary High School Assistant's Certificate (Type B).

Junior Group 1

This group is a prerequisite for all the Honors Science courses and for Honors Mathematics and Physics, including Radio Physics.

Subject	*Credits*
English, 10, 11, 19, 20, 21 (pp. 68-9)	7
French 10, or German 10 (p. 99, p. 74)	3
Library Science 10 (p. 83)	½
Mathematics 10, 12, 18 (p. 84)	4½
Physical Education 10 (pp. 92-3)	1

And Group A or B:

A

(For entrance to Honors Biological Science):

	Credits
Botany 10	3
Chemistry 10	3
Geology 10	3
Physics 10	3
Zoology 10	3

B

(For entrance to any Honors Mathematics or Science Course except Biology)

	Credits
Chemistry 10	3
Mathematics 24	4
Physics 10	3
†Two of: Botany 10	3
Geology 10	3
Zoology 10	3

†For Honors Chemistry, Botany 10 and Zoology 10 are prescribed; for Honors Geology, Geology 10 and Zoology 10.

Junior Group 2

The Honors Courses for which Junior Group 2 is a prerequisite are Business Administration, Business Administration and Secretarial Science, Economic and Political Science, English and Philosophy, Philosophy and Psychology, and Social Science. It is also the prerequisite for Journalism.

English 10, 11, 19, 20, 21 (pp. 68-9)	7
Library Science 10 (p. 83)	½
Mathematics 10, 12, 18 (any two) (p. 84) or Latin 10 (p. 63)	3
Physical Education 10 (pp. 92-3)	1
Business 20 (p. 56) or History 14 or 20	3
Economics 20 (p. 65)	3
Psychology 20 (p. 90)	3
Biological or Physical or Geological Science 11 (p. 50, p. 72, p. 94)	3
Three of (including two years of one foreign language):	
French 10, 20, German *1, *10, 20, Greek *1, *10, 20, Latin 10, 20, 30, Hebrew *1, *10, Russian *1, *10, Spanish *1, *10, 20, Geography 20, Zoology 20.	

NOTE:—For Journalism, History 14 is permissible instead of Business 20, and French is preferred to any other language. For Honors English and Philosophy, Philosophy and Psychology and for Honors Social Science, a student should elect History 20 instead of Business 20. Honors Social Science students should elect Biological Science 11 instead of Physical Science 11.

Junior Group 3

This Group is prerequisite for Honors English Language and Literature, for Honors History, for Honors English and French, for Honors English and Latin, and for Honors English and Philosophy. For these courses, except History and English and Philosophy, Latin 10 and 20 must be elected.

Subject	*Credits*
English 10, 11, 19, 20, 21 (pp. 68-9)	7
Library Science 10 (p. 83)	½
Mathematics 10, 12, 18 (any two), (p. 84) or Latin 10 (p. 63)	3
Physical Education 10 (pp. 92-3)	1
History 14, 20 (pp. 76-7)	6
Biological or Physical or Geological Science 11 (p. 50, p. 94, p. 72)	3
Four of (including two years each of two foreign languages):	
French 10, 20, German *1, *10, 20, Greek *1, *10, 20, Hebrew *1, *10, Latin 10, 20, 30, Russian *1, *10, Spanish *1, *10, 20	12

Junior Group 4

This Group is a prerequisite for Honors Classics, French and German or Spanish, French and Latin. For these courses Latin 10 and 20 must be chosen.

Subject	*Credits*
English 10, 11, 19, 20, 21 (pp. 68-9)	7
Library Science 10 (p. 83)	½
Mathematics 10, 12, 18 (any two), (p. 84) or Latin 10 (p. 63)	3
Physical Education 10 (pp. 92-3)	1
Biological or Physical or Geological Science 11 (p. 50, p. 94, p. 72)	3
Six of (including two years each of three foreign languages):	
French 10, 20, German *1, *10, 20, Greek *1, *10, 20, Hebrew *1, *10, Latin 10, 20, 30, Russian *1, *10, Spanish *1, *10, 20	18

Senior Groups

To graduate in either of the groups below, a student must secure at least Grade C in one-half of the credits of his group and a passing mark (Grade D) in the rest (p. 00). Courses previously counted cannot be given credit again in a Senior Group; an equal number of credits must be substituted for them.

Group A

This two-year group is open to any student who has completed Junior Group I or the equivalent.

Subject	*Credits*
Psychology 20 or 30	3
Physical Education 20	1
English 30, 36, 38, 40, 45 (any two)	6
History 45, 46	3
Economics 20, 42a or 42b	4½
At least 3 credits from History 31, 33, 44; Psychology 36, 39, 48	3

*For those who have no Grade XII standing in these languages at entrance.

At least 15 credits from: 15
Applied Biology 40;
Botany 22b, 23a, 31a, 36b, 43;
Chemistry 22, 33, 44, 46;
Geology 10;
Geography 20, 29, 30, 35, 40, 45;
Physics 21;
Zoology 20, 25;
Mathematics 24, 29a.

Group B

This two-year group is open to any student who has completed Junior Group 2, 3 or 4.

Students who plan to enter professional Schools of Social Work are advised to include among their options Economics 28 and 32, and Psychology 36, 39 and 49; History 31 is also valuable; Economics 20 and Psychology 20 are prescribed.

Subjects	*Credits*
Psychology 20 (20x) (or 30), or Philosophy 30 (30x) (one not previously taken)	3
Biological or Physical or Geological Science 11 (one not previously taken)	3
Physical Education 20	1
English 30, 36, 38, 40, 45, 49 (any two)	6
History: 6 credits from 20 or 45, 31, 33a, 36 or 46, 44	6
Economics 42a or 42b	1½
At least 7½ credits (which must include Economics 20, if not previously taken) from:	7½

Economics 20, 28, 29, 32, 33, 46, 48, 49;
Philosophy 30, 30x, 31, 33x, 37, 37x, 42, 43, 47, 47x;
Psychology 35, 35x, 36, 36x, 37x, 38, 38x, 39, 44, 44x, 46, 46x, 48, 49, 49x;
Religious Knowledge 20x, 21x, 22x, 23x, 24x, 30x, 31x, 40x, 41x, 48x;
Geography 20 (if not previously taken), 29, 30, 35, 40, 45;
Music 10, 20;
Biblical Literature 20x, 21x, 30x, 31x, 40x, 41x; Church History 40x.

At least 6 credits (not previously counted) from: 6
English 29;
French 20, 30, 40, 48, 271, 381, 491;
German 20, 30, 31, 39, 40, 41;
Greek 10, 20, 29, 30, 40;
Hebrew 1, 10;
Italian 1, 10, 20;
Latin 20, 30, 39, 40;
Russian 1, 10;
Spanish 10, 20, 30, 31, 40, 41;
Mathematics 10, 12, 18, 24, 29a;
Senior Group courses, not already counted, in Economics, English, History, Philosophy, Psychology.

II. SECRETARIAL SCIENCE COURSE

REQUIREMENTS FOR ADMISSION: Secondary School Graduation Diploma (page 12)

First Year

Subject	*Credits*
English 10, 11, 19 (pp. 68-9)	4
Library Science 10a (p. 83)	½
Mathematics 10, 12, 18 (any two), (p. 84) or Latin 10 (p. 63)	3
Physical Education 10 (pp. 92-3)	1
Biological Science 11 (p. 50)	3
Two of:	
French 10 (p. 99)	3
German 1 or 10 (pp. 74)	3
Spanish 1 or 10 (p. 101)	3
Latin 10 (p. 63)	3

Second Year

The registrations in this year are limited in number. 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 or Spanish and any two of Latin, Mathematics (two papers), Biology (III Class). Students must clear all the courses of the first year not covered by Grade XIII before beginning any work of the third year.

Subject	*Credits*
Business 20	3
Economics 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 10 or 20	3

Third Year

Business 30	2
English 35	3
Psychology 20	3
Secretarial Science 37	3
Secretarial Science 38, 39	6
One of:	
French 33	3
German 20 or 30, 31	3
Spanish 20 or 30, 31	3

Fourth Year

English 38 or 40 or 45	3
History 31	2
Secretarial Science 47	7
Secretarial Science 48, 49	5
One of:	
French 43	3
German 30, 31 or 40, 41	3
Spanish 30, 31 or 40, 41	4

III. THEOLOGICAL COURSE

REQUIREMENTS FOR ADMISSION: Secondary School Graduation Diploma (page 12).

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. This 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, History 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.

After the completion of this B.A. course it is necessary for Church of England Theological students to pass the work of two additional years at Huron College to secure the Licentiate in Theology (L.Th.).

Subject	**First Year**	*Credits*
Apologetics 10x (p. 113)		2
Church History 10ax (p. 114)		1½
English 10, 11, 19 or Homiletics 19x (pp. 68-9, 114)		4
Greek 1 or 1x (pp. 61, 114)		3

Subject	*Credits*
History 20b (p. 77)	1½
Latin 10 (p. 63)	3
Library Science 10a (p. 83)	½
New Testament 11x (p. 115)	1
Old Testament 10x (p. 115)	1
Physical Education 10 (pp. 92-3)	1
Second Year	
Economics 20	3
New Testament 21x	1
Old Testament 20x	1
Physical Education 20	1
Psychology 20	3
Homiletics 29x or English 29	1 or 2
English 20, 21	3
Greek 25x	3
Hebrew 1	3
Third Year	
English 30 or 36 or 38	3
Greek 35x	3
Hebrew 10	3
History 33a, 46b	3
New Testament 31x	1
Old Testament 30x	1
Philosophy 30	3
Psychology 39	2
Fourth Year	
Church History 40x	2
Economics 28	3
English 40 or 45	3
History 31 or 44	2
New Testament 41x	1
Old Testament 40x	1
Philosophy 31, 33bx	3
Psychology 48	2

IV. COURSE FOR NURSES

Leading to the Degree of Bachelor of Science in Nursing (B.Sc.N.)

REQUIREMENTS FOR ADMISSION: Secondary School Graduation Diploma (page 12).

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 Dean of the School of Nursing 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 and Science either (I) one and a half academic years or (II) one academic year, 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 Chemistry, Botany, Zoology will cancel Chemistry 10, Botany 21a, Zoology 21b.

I.

Subject	**First Year**	*Credits*
Botany 21a (p. 50)		1½
Chemistry 10 (p. 59)		3
Economics 28 (p. 65)		3
English 10, 11 (p. 68)		3
French 10 or German 10 (pp. 99 or 74)		3
Library Science 10a (p. 83)		½
Physical Education 10 (p. 92)		1
Zoology 21b (p. 53)		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
Economics 48a or 49a	1½
Zoology 21aN	2

II.

Students who offer certificates in all the Grade XIII subjects listed above must take a whole year (as below), not a half-year, in the Faculty of Arts and Science.

Subject	*Credits*
Botany 36b	1½
Chemistry 22a	1½
Economics 28 or 48	3
English 20, 21	3
Language of Grade XIII 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 School of Nursing is Convener.

Part C: One academic year in the Graduate Division of the School of Nursing of the University of Western Ontario. The student may choose the Public Health Nursing, Hospital Administration or the Instructor in Nursing option. She must inform the Dean of the School of Nursing 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 12).

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; see detailed descriptions on pp. 000-0.

This course has been approved by the Canadian Dietetic Association.

Grade XIII standing in English, French, Mathematics will cancel English 10, 11, French 10, Mathematics 10, 12, 18; Grade XIII Chemistry, Botany, Zoology with Second Class standing will cancel Chemistry 10, Botany 21a, Zoology 21b.

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.

Students who have obtained 60% or more in the work of the fourth year may, if they enter the High School Assistants' Course of the Ontario College of Education, elect the supplementary course offered for Intermediate Home Economics certificates.

A two-year course leading to a Diploma in Home Economics is offered by Holy Names College (Windsor) and Alma College (St. Thomas). For details consult the pamphlets of these colleges. The diploma course formerly offered by Ursuline and University Colleges is being withdrawn for the year 1948-49.

Subject	First Year	*Credits*
Botany 21a (p. 50)		1½
English 10, 11, 19 (p. 68)		4
Library Science 10a (p. 83)		½
Chemistry 10 (p. 59)		3
French 10 or German 10 or Spanish 10 (pp. 99, 74, 101)		3
Mathematics 10a, 12b, 18 (any two), (p. 84) or Latin 10 (p. 63)		3
Physical Education 10 (p. 92)		1
Zoology 21b (p. 53)		1½

	Second Year	
Botany 36b		1½
English 20, 21		3
French 20 or German 20 or Spanish 20		3
Chemistry 22		3
Physical Education 20		1
*Religious Knowledge 20x		2
Home Economics 23x		2
Home Economisc 25x		1
Home Economics 26x		1
Zoology 21aN		2

	Third Year	
Chemistry 33		3
Economics 20		3
English 30 or 36 or 38		3
Home Economics 30x		2½
Home Economics 31x		2½
Home Economics 32x		2½
Home Economics 33ax		1
Home Economics 34bx		1
Psychology 20		3

	Fourth Year	
Chemistry 46		3
Economics 28 or *39x		3 or 2
Home Economics 40x		2½
Home Economics 41bx		1
Home Economics 42x		3½
Home Economics 45bx		1
Home Economics 46ax		1½
Home Economics 47x		1
Home Economics 48ax		1½

VI. COURSE FOR TEACHERS OF ELEMENTARY SCHOOLS

REQUIREMENTS FOR ADMISSION: Secondary School Graduation Diploma, General Course, Four Options (p. 12) and Interim First Class Certificate.

The subjects whose number is followed by T count for graduation in this course only. They may be offered in the Summer School, Extramural and/or Extension Departments.

Subject	First Year	*Credits*
English 19S; 20, 21T (pp. 69, 104)		4
Library Science 10S (p. 105)		1
Physical Education 20 (pp. 92-3)		1
Economics 20 or 28 (p. 65)		3
Psychology 20 (p. 90)		3
Applied Biology 23S (p. 54)		1½

*For Ursuline College students only.

Subject	*Credits*
At least 5 credits from:	
Art 20T (p. 104)	1½
Astronomy 29a (p. 85)	1
Educational Counseling 20T (p. 104)	1
English 26T (p. 105)	1
French 20 (or other foreign language)	3
Handicrafts 20T (p. 105)	1½
Home Economics 25 (p. 79)	1
Home Economics 26 (p. 79)	1
Mathematics 20S (p. 105)	1
Mathematics 23T (p. 105)	1
Music 20T	1½
Secretarial Science 29a (p. 102)	1½
Biological Science 11 (p. 50)	3
Physical Science 11 (p. 94)	3

Second Year

English 29S, 30 or 38, 31T	5
Economics 42a	1½
Geography 20a	1½
History 31	2
Psychology 35S	1½
Psychology 36	2
At least 5 credits from:	
Art 30T	1½
Economics 29S	1
Educational Counseling 30T	1
English 33T	1
English 36S	1½
French 30 (or other foreign language)	3
Geography 20b	1½
Handicrafts 30T	1½
Home Economics 30a	1½
Home Economics 31a	1½
Home Economics 32a	1½
Economics 32	3
Music 30T	1½
Physical Education 30	1
Secretarial Science 29b	1½
Options from the first year not previously chosen.	

Third Year

English 40 or 45	3
Geography 45a, 45b	3
History 35S	2
Psychology 39	2
Psychology 48	2
Public Health 30S	1½
At least 5 credits from:	
Economics 39T	1½
English 46S	2½
French 40 (or other foreign language)	3
Home Economics 30b	1½
Home Economics 31b	1½
Home Economics 32b	1½
Home Economics 33	1
Home Economics 34	1
Home Economics 45	1
Physical Education 40	1
Psychology 46	2
Psychology 49	2
Options of the first or second year not previously chosen.	

VII. JOURNALISM

REQUIREMENTS FOR ADMISSION: Junior Group 2, p. 26, with 60% in Economics and 60% in Business or History. Proficiency in typewriting is also required.

Subject	**Third Year**	*Credits*
Economics 32		3
English 35		2
History 31		2
Physical Education 20		1
At least 3 credits from:		
Economics 42a		1½
Economics 257b		1
English 30 or 36 or 38		3
French 30 or 33		3
Geography 20		3
History 33a		1½
Journalism 30		5
Journalism 31		2
Journalism 32		1
Journalism 33b		1½

Fourth Year

Economics 47b	1½
English 40 or 45	3
History 44	2
One of: Geography 45a, Geography 45b, History 46b	1½
Journalism 40	5
Journalism 41	1½
Journalism 42a	1
Journalism 43a	1
Journalism 44b	1½
Journalism 45	1 or 2

VIII. GENERAL SCIENCE

In addition to leading to a degree in Arts, this course covers the work necessary for admission to the first year of the four-year Medical Course.

REQUIREMENTS FOR ADMISSION: Grade XIII certificates in English Literature and Composition; a foreign language (2 papers in French, German, Spanish, Italian, Latin or Greek); Chemistry; Physics; Trigonometry; either Algebra or Geometry (Algebra preferred). Equivalent college courses (not offered in University College) may be accepted instead. Either Grade XIII or first year college standing is regarded as the first year of the course.

Subject	**Second Year**	*Credits*
English 19, 20, 21		4
Library Science 10		½
Botany 21a		1½
Chemistry 10		3
History 21		3
Mathematics 21		1
Physical Education 10		1
Psychology 20		3
Physics 21		3
Zoology 21b		1½

On the successful completion of this second year a student may apply for admission to the third year of the Laboratory Assistants' Course.

Subject	**Third Year**	*Credits*
Chemistry 33		3
Chemistry 44		3½
English 35		3
Geography 31		1

Mathematics 31b	1
Physical Education 20	1
Physics 31	2½
Philosophy 32	2
Zoology 31	4½

A student who has completed the three years outlined above has **three options** available:

(1) He may apply for admission to the final year of a General Course leading to a B.A. degree with science electives. (See option below.)

(2) He may apply for admission to the Third Year of the Honors General Science course. To be eligible he must show at least 60% in each of the sciences and an average of 60% in the non-science courses in each of the second and third years. (See option 2 on p. 43).

(3) **He may apply for admission to the first year of the Faculty of Medicine. To be eligible for consideration he must show an average of at least 60% in the sciences of each of the second and third years, and of 60% in the non-science courses of the second and third years combined. Medical aptitude test scores and personal interviews will be considered in reaching a decision on each application.**
Consult Medical School Announcement.

General Science Course

OPTION 1

Leading to the degree of B.A., General Course

Subject	**Fourth Year**	*Credits*
Economics 20, and 42a or 42b		4½
English 30, 36, 38, 40, 45 (any one)		3
History 31, 33, 44 (two of)		3½ or 4
Botany 23a or 22b		2
Any 6 credits from:		
Applied Biology 40		4
Botany 23a, or 22b (the one not taken above)		2
Geology 10		3
Chemistry 46		3
Zoology 20		3½
Zoology 22		3½
Mathematics 24, 29		5
Geography 20		3

IX. LABORATORY ASSISTANTS' COURSE

REQUIREMENTS FOR ADMISSION: Junior Group 1, page 26, or the one year Course for Nurses, page 30, or second year General Science, page 33.

This course leads to the degree of Bachelor of Science Laboratory Assistant (B.Sc.-L.A.).

The third and fourth years provide either (1) a General Course or (2) special training in Radiology. For admission to the latter the second year General Science is compulsory. The lectures and laboratory work will be taken at the Medical School and Victoria Hospital.

Subject	**Third Year**	*Credits*
Anatomy		1
Physiology		1
Typing and Transcribing		2
Photography		1
Laboratory		5
and either for (1) Biochemistry		1
or for (2) Physics		1

Fourth Year

Library Science and Medical Records	1
Applied Anatomy and Physiology	2
Laboratory Work	10

The above prescribed courses are to be supplemented in rotation by:

Bacteriology	3
Pathology	5
Clinical Pathology	2
Serology	1

HONORS COURSES

The Honors Courses in Biological Science, Chemistry, Geology, Physics, including Radio Physics, lead to the degree of Bachelor of Science (B.Sc.); other Honors Courses to Bachelor of Arts (B.A.).

Biological Science

REQUIREMENTS FOR ADMISSION: Group 1A page 25. The student must obtain an average of at least 60% in all the options taken, and not less than 60% in Botany and 60% in Zoology.

This course satisfies the academic requirements for the High School Assistant's Certificate, Type A, Science, of the Department of Education of Ontario. See page 18.

Subject	Second Year	*Credits*
One of: German 5, Russian 1		3
Physical Education 20		1
Botany 250		2½
Chemistry 200		3½
Physics 204		3½
Zoology 250		2½

Third Year

For admission to the Third Year an average of 60% in the Sciences of the Second Year is required.

Economics 20 or Psychology 30 or English 30 or 35	3
One of: German 35, Russian 10	2 or 3
Botany 360	5
Chemistry 353a, 46b	3½
Zoology 350, 354 or 457	7½ or 7

Students who select the Botany option in the final year will take Zoology 457; all others, 354.

Fourth Year

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

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, and one of: German 45, Russian 45	2
Applied Biology 460	5
Botany 452b (or 360b), 461a	5
Zoology 452(I), 455, 457	5½

(b) APPLIED BIOLOGY

French 45, and one of: German 45, Russian 45	2
Botany 466	2½
Applied Biology 453	0
Applied Biology 460	5
Applied Biology 463	2½
Zoology 455, 457	3
Zoology 454	4

(c) BOTANY

French 45, and one of: German 45, Russian 45	2
Botany 452	2½
Botany 453	2½
Botany 454	2½
Botany 461	2½
Botany 466	2½
Botany 474	2½
Zoology 455	1

(d) ZOOLOGY

French 45, and one of: German 45, Russian 45	2
Botany 466b	2½
Zoology 455, 457	3
Zoology 452	5
Zoology 454	4
Applied Biology 460 (I)	2½
Applied Biology 453	0

Business Administration

REQUIREMENTS FOR ADMISSION: Group 2, page 26, 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.

Subject	**Second Year**	*Credits*
English 35		3
Physical Education 20		1
Business 250		3
Business 255		3

Second Year

Seven credits from: (alternative options may be chosen after consultation with the department):

English 30, 36, 38	3
French 20, 33 or 43	3
Spanish 10, 20, 30, 31	3 or 2
Philosophy 30 or 32	3 or 2
History 31 or 44	2
Economics 257	2
Economics 229	3
Economics 232	3
Economics 233	3
Economics 300	3
Economics 346	3
Economics 42b	1½

Third Year

For admission to the Third Year an average of 60% in the Honor Business of the Second Year is required.

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 Third Year Business Administration is required.

Business 458	3
Business 459	1½

Twelve credits (chosen after consultation with the department) from:

Business 450	2
Business 451	3
Business 452	3
Business 453	3
Business 454	3
Business 460	2
Business 461	3
Business 471	3
Economics (options up to 6 credits approved by the department)	6

Business Administration and Secretarial Science

REQUIREMENTS FOR ADMISSION: Group 2, page 26, with at least 60% in Economics and in Business.

This course, with the addition of Penmanship, satisfies the academic requirements for the High School Assistant's Certificate, Type A, in Commercial subjects, of the Department of Education of Ontario.

Subject	Second Year	*Credits*
Physical Education 20		1
Business 36		2
Business 250		3
Economics 233		3
Economics 229, 257		5
Secretarial Science 28, 29		6

Third Year

For admission to the Third Year an average of 60% in Second Year Business and Secretarial Science is required.

Business 350	3
Business 351	3
English 35	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.

Subject	*Credits*
Business 306	3
Business 460	3
Economics 46 or English 40 or 45	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.

Chemistry

REQUIREMENTS FOR ADMISSION: Group 1, page 25, with the following from the options: Chemistry, Mathematics, Physics, and two of Botany, Geology, Zoology. The student must obtain an average of at least 60% in all the options taken, and not less than 60% in Chemistry, and an average of 60% in Physics and Mathematics.

Subject	Second Year	*Credits*
One of: German 5, Russian 1		3
Physical Education 20		1
Chemistry 200		3½
Chemistry 251		2
Chemistry 252		4
Physics 255		3½
One of Botany 250, Zoology 250, Geology 251		2½

Third Year

For admission to the Third Year a standing of 60% in the Sciences of the Second Year is required.

One of: German 35, Russian 10	2 or 3
Chemistry 353	3½
Chemistry 354	6
Physics 254	3½
One of:	
Economics 20	3
English 30 or 35	3
Psychology 30	3
Geography 35	3

Fourth Year

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

French 45, and one of: German 45, Russian 45	2
Chemistry 452	2½
Chemistry 453	4½
Chemistry 454	3½
Chemistry 457	1
Chemistry 458	2
Chemistry 459	4½

Chemistry and Physics

REQUIREMENTS FOR ADMISSION: As for Honors Chemistry (page 37).

This course satisfies the academic requirements for the High School Assistant's Certificate, Type A, Science, of the Department of Education of Ontario. See page 18.

Second Year

Subject	*Credits*
One of: German 5, Russian 1	3
Physical Education 20	1
Chemistry 200, 252	7½
Mathematics 254	3
Physics 251, 254, 255	8

Third Year

For admission to the Third Year an average of 60% in the Honors courses of the Second Year is required.

One of: German 35, Russian 10	2 or 3
Mathematics 354	2
Chemistry 353	3½
Chemistry 354	6
Physics 354	3½
Physics 366	3½

Fourth Year

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

Subject	*Credits*
French 45, and one of: German 45, Russian 45	2
Chemistry 452	2½
*Chemistry 453 or 454	4½ or 3½
Chemistry 457	1
Chemistry 458	1
Physics 376	2
*Physics 453 or 456	2
Physics 458	1
Either Chemistry 459 or Physics 459	4½
One of:	
Economics 20	3
English 30 or 35	3
Psychology 30	3
Geography 35	3

Classics

REQUIREMENTS FOR ADMISSION: Group 4, page 26, 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 High School Assistant's Certificate, Type A, in Classics, of the Department of Education of Ontario. See page 18.

Second Year

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

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

Third Year

For admission to the Third Year an average of 60% in the Honors courses of the Second Year is required.

English 40	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 Greek and Latin of the Third Year is required.

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

Economic and Political Science

REQUIREMENTS FOR ADMISSION: Group 2, page 26, with an average of at least 60% in Economics, Business and Psychology, and 60% in Economics.

Subject	Second Year	*Credits*
Biological or Physical Science 11 (one not previously taken) or Mathematics 24a		3 or 2
Business 250		3
English 35		3
Physical Education 20		1
Economics 228, 229, 233, 257		11

Third Year

For admission to the Third Year an average of 60% in the Economics of the Second Year is required.

Subject	*Credits*
Economics 300, 332, 346, 355	12
History 31 or 44	2
At least five credits from:	
Economics 342b	1½
Economics 348	3
Economics 351	3
Economics 353	3
Business 351	3
Business 354	3
English 30 or 36 or 38	3
Geography 20	3
History 20 or 31 or 44 (if not previously taken)	3 or 2
Mathematics 24a (if not previously taken), Mathematics 24b	2 or 4
Philosophy 30	3
Philosophy 31 or 42	2
Psychology 46	2
French 30 or 33, German 20 or 30, Spanish 10 or 20 or 30, 31	3 or 4

Fourth Year

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

Economics 450, 452, 462a, 490	9½
History 45a, 46b	3
At least six credits from:	
Economics 449	3
Economics 453	3
Economics 478	3
History 356b	1½
Business 481b	1½
Geography 35	3
Psychology 48	2
Psychology 49	2
Mathematics 250 or 254	2 or 3
Options of the Third Year not previously chosen.	

English Language and Literature

REQUIREMENTS FOR ADMISSION: Group 3, page 26, 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 High School Assistant's Certificate, Type A, English. See page 18.

Subject	Second Year	*Credits*
History 35		2
Physical Education 20		1
English 200, 236, 254		7
Greek 29		1
Two of: French 270		3
German 290		3
Latin 230, 250		3
Greek 230, 250		3

Third Year

For admission to the Third Year an average of 60% in the Honors courses of the Second Year is required.

English 330, 338, 356, 357, 363	12
One of: French 380	3
German 390	3
Latin 340, 352	3
Greek 340, 352	3
One of: Philosophy 30	3
Psychology 20	3
A second language from the above	3

Fourth Year

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

English 440, 445, 450, 463	11
Either English 441 or 468	1
One of: French 490	3
German 480	4
Latin 450, 452	4
Greek 452	3

English and French

REQUIREMENTS FOR ADMISSION: Group 3 or Group 4, page 26, 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 High School Assistant's Certificate, Type A, English and French. See page 18.

Subject	Second Year	*Credits*
History 35		2
Physical Education 20		1
English 200, 236, 254		7
French 270, 271, 290		6
One of:		
German 290		3
Latin 230, 250		3
*Spanish 230, 231		4

Third Year

For admission to the Third Year an average of 60% in the Honors courses of the Second Year is required.

English 330, 356, 357, 363	9
French 380, 381	6
Greek 29	1

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, 445, 450	9
French 450, 490, 491	9

English and Latin

REQUIREMENTS FOR ADMISSION: Junior Group 3, or Junior Group 4, page ,26 with 60% in English and 60% in Latin.

This course is accepted by the Department of Education of Ontario as academic qualification for the High School Assistant's Certificate, Type A, English and Latin. See page 18.

Subject	**Second Year**	*Credits*
History 257		3
Physical Education 20		1
English 200, 236, 254		7
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

*Students who begin Spanish at the Universiy should defer Spanish 231 to their third year and take Greek 29 in their second year.

Third Year

For admission to the Third Year an average of 60% in the English and Latin of the Second Year is required.

History 35	2
English 330, 356, 357, 363	9
Latin 340, 350, 351, 352	6

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, 445, 450	9
Latin 450, 451, 452, 453, 457	9

English and Philosophy

REQUIREMENTS FOR ADMISSION: Junior Group 2 (including History), or Junior Group 3, page 26, with an average of 60% in English and an average of 60% in the two languages chosen.

Subject	**Second Year**	*Credits*
English 200, 254		4
Philosophy 230, 231		5
Nine credits of options including Psychology 20 (if not previously taken)to be selected from English, Philosophy, Psychology, Classics, Economics,Political Science, German Language and Literature, History, Romance Languages, and approved by the two Departments		9

Third Year

For admission to the Third Year an average of 60% in the Honors courses of the Second Year is required.

English 330, 356	6
Philosophy 347, 350	5
Seven credits of options, to be selected as above	7

Fourth Year

For admission to the Fourth Year an average of 66% in the English and Philosophy of the Third Year is required.

English 440, 445, 450	9
Philosophy 442, 443, 452, 458	9

French and German

REQUIREMENTS FOR ADMISSION: Group 4, page 26, with at least 60% in French and in German.

This course is accepted by the Department of Education of Ontario as academic qualifications for the High School Assistant's Certificate, Type A, English and Latin. See page 18.

Subject	Second Year	*Credits*
English 30		3
Greek 29		1
Physical Education 20		1
French 270, 271, 290		6
German 290, 291		5
At least three credits from:		
Spanish 10 or 20, or 30, 31		3 or 4
Italian 1 or 10		3
Latin 30 or 230, 250		3

Third Year

For admission to the Third Year an average of 60% in the French and German of the Second Year is required.

History 45, 46	3
French 380, 381	6
German 333, 390, 391	7
One of:	
Spanish 20 or 30, 31 or 40, 41	3 or 4
Italian 10 or 20	3
Latin 340 or 350	2

Fourth Year

For admission to the Fourth Year an average of 66% in the French and German of the Third Year is required.

Subject	*Credits*
French 450, 490, 491	9
German 420, 480, 481	8

French and Latin

REQUIREMENTS FOR ADMISSION: Group 4, page 26, with at least 60% in French and 50% in Latin.

This course is accepted by the Department of Education of Ontario as academic qualification for the High School Assistant's Certificate, Type A, French and Latin. See page 18. In this course three years, or the equivalent, of Greek or German must be taken in the University.

Subject	Second Year	*Credits*
German 20 or Greek 20		3
English 30		3
Physical Education 20		1
French 270, 271, 290		6
Latin 230, 250, 251, 257		8

Third Year

For admission to the Third Year an average of 60% in the Honors courses of the Second Year is required.

Subject	*Credits*
German 30, 31 or Greek 30	3
Greek 29	1
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.

French 450, 490, 491	9
Latin 450, 451, 452, 453	7

French and Spanish

REQUIREMENTS FOR ADMISSION: Group 4, page 26, with at least 60% in French and Spanish.

This course satisfies the academic requirements for the High School Assistant's Certificate, Type A, French and Spanish, of the Department of Education of Ontario. See page 18.

Subject	**Second Year**	*Credits*
English 30		3
Greek 29		1
Italian 1		3
Physical Education 20		1
French 270, 271, 290		6
Spanish 230, 231, 260		5

Note: Students who begin Spanish in the University will take Spanish 20 in the Second Year and will defer Spanish 231 and Greek 29 until the third year.

Third Year

For admission to the Third Year an average of 60% in the French and Spanish of the Second Year is required.

History 45, 46	3
Italian 10	3
French 380, 381	6
Spanish 340, 341, 360	7

Fourth Year

For admission to the Fourth Year an average of 66% in the French and Spanish of the Third Year is required.

French 450, 490, 491	9
Spanish 451, 460	6
Italian 20	3

General Science

OPTION 2

(See p. 34, Third Year)

Leading to the degree of B.A., Honors Course

This course satisfies the academic requirements for the High School Assistant's Certificate, Type A, Science, of the Department of Education of Ontario. See page 18.

Subject	**Third Year**	*Credits*
Botany 23a or 22b		2
Botany 350		2½
Chemistry 252 or 46		3
Geology 310		3
Physics 300		2
Zoology 374 or 453 (offered in alternate years)		2½
Classics 5		1
German 5 or Russian 1		3

Fourth Year

For admission to the Fourth Year an average of Second Class (66%) in the Sciences of the Third Year is required.

Botany 466	2½
Chemistry 457	1
Geology 451	2
Physics 403	2
Physics 404	2
Zoology 453 or 374 (offered in alternate years)	2½
Zoology 457	2
French 45, and one of German 35, Russian 45	3 or 2

Geology

REQUIREMENTS FOR ADMISSION: Group 1, page 25, with the following from the options Geology, Chemistry, Physics, Mathematics and one of Botany, Zoology. The student must obtain: an average of at least 60% in all the options taken and not less than 60% in Geology.

Consult the department head regarding options in the various years.

Subject	**Second Year**	*Credits*
One of: German 5, Russian 1		3
Physical Education 20		1
Physics 204		3½
Geology 251, 263		6
Chemistry 200		4
Geology 256 or Zoology 250		1½ or 2½

Third Year

For admission to the Third Year an average of 60% in the Honors courses of the Second Year is required.

One of: German 35, Russian 10	2 or 3
Geology 351, 354, 356	8
Geography 335	3
Geology 363 or 365	3 or 2
One of: English 30 or 35, Psychology 30, Economics 20	3

Fourth Year

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

French 45 and one of: German 45, Russian 45	2
Geography 445	3
Geology 452, 454, 455, 457, 458	11½
Geology 460 or 467	1½
One of: Philosophy 30, Business 20, History 36	3

History

REQUIREMENTS FOR ADMISSION: Junior Group 3, page 26, 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 High School Assistant's Certificate, Type A, History, of the Department of Education only if the options marked with an asterisk have been taken. See page 18.

Subject	**Second Year**	*Credits*
History 236		3
History 257		3
Economics 20		3
Philosophy 30 (or *Business 20)		3
Physical Education 20		1
Any two of:		
French 30, German 30, Latin 30, Greek 30, Spanish 30, *Geography 20		5 or 6

Third Year

For admission to the Third Year an average of 60% in the Honors courses of the Second Year is required.

History 35	2
History 331	3
History 333a	1½
History 354b	1½
History 356	1½
Economics 229	3
Psychology 20 (or *Geography 335)	3
One of:	
*Economics 233	3
English 30, 254	5
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 the History and Economics of the Third Year is required.

History 444	3
History 452	3
History 455	3
Economics 332	3
Economics 450a	1½
Economics 452a	1½
One of:	
Economics 450b and 452b	3
Economics 346 or 453	3
English 38 or 40 or 45	3
Foreign Language: two of Latin, Greek, French, German, Italian, Spanish, authors only, to be arranged	4
*Geography 445a, 445b	3

Mathematics (including Actuarial Science) and Physics

Requirements for Admission: Group 1, page 25, with the following from the options: Mathematics, Physics, Chemistry, and two of Botany, Geology, Zoology. The student must obtain an average of 60% in the options and not less than 60% in Mathematics and 60% in Physics.

Second Year

Subject	*Credits*
One of: German 5, Russian 1	3
Mathematics 250, 252, 254	7½
Physics 250, 251, 254, 255	10
Physical Education 20	1

Mathematics Option

This course satisfies the academic requirements for the Mathematics and Physics, Type A, High School Assistant's Certificate of the Department of Education of Ontario. See page 18. Degree of B.A.

Third Year

For admission to the Third Year an average of 60% in the Honors courses of the Second Year is required.

Subject	*Credits*
Economics 20 or English 30 or 35 or Psychology 30	3
One of: German 35, Russian 10	2 or 3
Mathematics 354	2
Physics 350	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, and one of: German 45, Russian 45	2
History 45a, 46b	3
Mathematics 456	3
Physics 351a, 456	3
One of the Groups I and II below	7

The following two groups are given in alternate years, Groups II in 1948–9.

Group I

Subject	*Credits*
Mathematics 351a	1
Mathematics 355	2
Mathematics 359	2
Mathematics 364	2

Group II

Mathematics 450	2
Mathematics 452b (for Mathematics Option only)	1½
Mathematics 453	2½
Mathematics 457	1
Mathematics 463b (for Actuarial Science Option)	1

Actuarial Science Option

This option is intended for students who wish to become actuaries. It will prepare students to write two or possibly three of the five examinations required for the Associateship in the Actuarial Society of America and in the American Institute of Actuaries. The first of these five examinations, a Language Aptitude Examination, may be written at any time, the second at the end of the second year and the third, and possibly the fourth, at the end of the fourth year. The first three examinations are held about May 15th and may be written in London. *Applications to write one or more of the first three examinations must be made by March 15th.*

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

NOTE: This course satisfies the academic requirements for the Mathematics, Type A, Certificate of the Department of Education of Ontario. Degree of B.A.

Third Year

Subject	*Credits*
For admission to the Third Year an average of 60% in the Mathematics of the Second Year is required.	
One of: German 35, Russian 20	2 or 3
Economics 20	3
English 35	3
Business 250	3
Mathematics 354	2
Group I or II of Mathematics Option	6½ or 7

Fourth Year

For admission to the Fourth Year an average of 66% in the Honors Courses of the Third Year is required.	
History 45a, 46b	3
Business 353	3
Economics 351a, 460b	3
Mathematics 456	3
Group I or II of Mathematics Option	6½ or 7

General Physics Option

This course satisfies the academic requirements for the Mathematics and Physics, Type A, High School Assistant's Certificate of the Department of Education of Ontario. See page 18. Degree of B.Sc.

Third Year

For admission to the Third Year an average of 60% in the Honors courses of the Second Year is required.

Subject	*Credits*
One of: German 35, Russian 10	2 or 3
Mathematics 354a	1
Mathematics 456	3
Physics 350	3½
Physics 351	2
Physics 354	3½
Physics 359	2
Physics 376	2

Fourth Year

For admission to the Fourth Year a standing of 66% in the Mathematics and Physics of the Third Year is required. This will be the prescription of work for 1948–49 only; it will be changed in 1949–50.

Subject	*Credits*
French 45, and one of: German 45, Russian 45	2
Economics 20 or English 30 or 35 or Psychology 30	3
Mathematics 456	3
Physics 453	2
Physics 455	1½
Physics 456	2
Physics 458	1
Physics 459	4½

Radio Physics Option

The purpose of this course is to provide students with sufficient theoretical and practical background to enable them, as graduates, to occupy responsible technical positions in the various branches of the radio industry, including frequency modulation, television and radar; in communications generally; in the field of industrial electronics; and in development and research laboratories.

Note: This course does *not* satisfy the academic requirements for the Mathematics and Physics, Type A, Certificate of the Department of Education of Ontario. Degree of B.Sc.

Third Year

For admission to the Third Year an average of 60% in the Honors courses of the Second Year is required. This will be the prescription of work for 1948–49 only; it will be changed in 1949–50.

Subjects	*Credits*
One of: German 35, Russian 10	2 or 3
Economics 20	3
Mathematics 354a, 456	4
Physics 254 (lectures only)	2
Physics 351	2
Physics 375	2
Physics 376b	1
Physics 377	2
Physics 379	4½

Fourth Year

For admission to the Fourth Year an average of 66% in the Mathematics and Physics of the Third Year is required. This will be the prescription of work for 1948–49 only; it will be changed in 1949–50.

Subjects	*Credits*
French 45, and one of: German 45, Russian 45	2
Physics 458	1
Physics 470a	1
Physics 470b	1
Physics 471a	1½
Physics 472b	1
Physics 475b	1
Physics 476	2
Physics 477	2
Physics 479	6

Philosophy and Psychology

This course is offered in University College only.

REQUIREMENTS FOR ADMISSION: Group 2, page 26, with at least 60% in Economics and 60% in Psychology.

Subject	**Second Year**	*Credits*
Biological or Physical Science 11 or Geological Science 11 (one not previously taken)		3
English 30 or 38, or History 257		3
Physical Education 20		1
Philosophy 230, 231		5
Psychology 235, 236		5
At least three credits from options approved by the Department		3

Philosophy Option

Third Year

For admission to the Third Year an average of 60% in the Honors courses in the Second Year is required.

Philosophy 337, 347, 350	7
Psychology 339, 349	4
At least seven credits from options approved by the Department	7

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, 443, 450, 451, 452, 458	12
At least two credits from:	
Psychology 444, 446, 448	2
At least three credits from options approved by the Department	3

PSYCHOLOGY OPTION

Third Year

For admission to the Third Year an average of 60% in the Honors courses of the Second Year is required.

Psychology 337, 338, 339, 349, 355	11
At least seven credits from options approved by the Department	7

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	2
Psychology 444, 446, 448, 455	9
At least six credits from options approved by the Department	6

For Honor Philosophy Courses in Assumption College and St. Peter's College, see pages 107 and 116.

For details of course in

Physical Education, Health and Recreation

see separate pamphlet on this subject.

Physics

See Chemistry and Physics (p. 38), and Mathematics and Physics (p. 45).

Social Science

REQUIREMENTS FOR ADMISSION: Junior Group 2, p. 26, 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.

Subject	**Second Year**	*Credits*
Economics 228		3
Economics 232		3
Economics 233		3
Economics 229		3
Philosophy 230		3
Philosophy 231		2
Psychology 235, 236		5
Physical Education 20		1

Third Year

For admission to the Third Year an average of 60% in the Honors courses of the Second Year is required.

Ursuline College students may count three optional credits in Religious Knowledge (other than 10x) in each of the Third and Fourth Years.

Subject	*Credits*
Economics 342b	1½
Economics 348	3
Economics 346	3
Psychology 337	2
Psychology 339	2
Psychology 355	2
History 45a, 46b	3
One of:	
Economics 300	3
Philosophy 337	2
Philosophy 347	2
Philosophy 338	3
Psychology 349	2

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 449	3
Economics 450	3
Economics 453	3
Economics 478	3
Philosophy 442	2
Philosophy 443	2
Psychology 446	2
Psychology 448	2

Diploma Courses

(i) Intensive Course in Public Administration

REQUIREMENTS FOR ADMISSION: Graduation from a recognized college in some field other than Business Administration or Economics. Successful experience in business or in a government post, in lieu of academic training, may be considered.

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 should acquire an understanding of the nature and broad significance of problems of public policy and administration. The courses specified below will be supplemented by discussions led by public administrators.

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 60% in this one-year course is required for the diploma in Public Administration.

Subject	*Credits*
Business 458	3
Economics 452, 462a	4½
History 31	2
Six credits from:	
Business 250 or 350	3
Business 453	3
Business 459 (thesis in problems of Industry or Distribution)	1½
Business 460	3
Economics 233	3
Economics 342b	1½
Economics 453	3

(ii) Intensive Course in Business Administration

REQUIREMENTS FOR ADMISSION: Graduation in some field other than Business Administration 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 60% in this one-year course is required for the diploma in Business Administration. Those who obtain 66% may proceed to an M.A. degree in one additional year's work.

Subject	*Credits*
Business 250	3
Business 255	3
Business 351	3
Business 353	3
Business 354	3

A staff-supervised field-trip to industrial plants.

DESCRIPTION OF COURSES

BIOLOGICAL SCIENCES

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. 26.

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

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

Professors: NELSON C. HART, M.A., F.A.A.A.S., F.A.G.S.; ANSON R. WALKER, M.A., F.A.A.A.S. (Professor of Plant Pathology).

Assistant Professor: DUNCAN A. MCLARTY, PhD.
Instructor, Plant Culture: JOHN K. JOHANNESEN, Diploma (Copenhagen)
Demonstrators: MARION MOSS, B.Sc.; N. J. WHITNEY, B.Sc.

Assumption College

Professors: REV. A. J. GRANT, M.A.; ROBERT CUMMINGS, M.S.
Associate Professor: SISTER M. RAPHAILDA, M.A.
Instructor: EMIL GODO, B.S.A.

Waterloo College

Professor B. W. KELLEY, B.A.
Assistant Professor: C. M. CARMICHAEL, M.Sc.

10. Introductory Botany: For students of the General Course, Group I, the general principles of Botany. **To qualify for the Honors Courses in Biology a student must obtain 60 per cent. in Botany 10.** 2 lectures, 3 laboratory hours a week: 3 credits.

Prerequisites: complete college entrance requirements.

21a. **Elementary Botany:** For students of the General Science, Nursing and Home Economics Courses; the basic principles of Botany, including a brief survey of the plant kingdom.

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

Prerequisites: complete college entrance requirements.

22b. **Plant Culture:** The elementary principles of plant growth, propagation and care, with particular reference to plants of the garden and home. 2 lectures, 4 laboratory hours a week, one term: 2 credits.

Prerequisites: Botany 10 or Botany 21a (60%) or Biological Science 11 (60%).

23a. **Plant Ecology:** The relationship between plants and their surroundings, including the recognition and classification of common plants. 2 lectures, 4 laboratory hours a week, one term: 2 credits.

Prerequisites: same as for 22b.

31a. **Plant Diseases and Fungi:** The recognition of poisonous and edible fungi and the identification, cause and control of common plant diseases. 2 lectures, 4 laboratory hours a week: 2 credits.

Prerequisites: Botany 23a and 22b, or Botany 10, or Botany 21a (60%), or Biological Science 11 (60%).

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, 3 laboratory hours a week: 1½ credits.

Prerequisites: as in 31a.

43. **Plant Taxonomy:** The recognition and classification of the common garden and field plants with special reference to adaptations to their environment. 2 lectures, 4 laboratory hours a week: 4 credits.

Prerequisites: Botany 23a and 22b, or Botany 31a and 36b.

Honors Courses

250. **Biology of Seed Plants:** The evolution, external morphology of the Spermatophyta.

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

Prerequisites: Junior Group 1.

350. **Biology of Seed Plants:** Same course as 250 but modified for students in the General Science course.

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

Prerequisites: Botany 21a and Botany 22b or Botany 23a.

360. **Cryptogamic Botany:** Morphology, classification and evolution of the Algae, Bryophyta and Pteridophyta.

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

Prerequisites: Botany 250 or Botany 350.

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

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

Prerequisites: Botany 250 or 360.

453. **Ecology and Taxonomy:** The principles of ecology, and the classification of the Spermatophyta.
2 lectures, 6 laboratory hours a week, one term: 2½ credits.
Prerequisites: Botany 250 or 360.

454. **Plant Anatomy and Cytology:** The anatomy and cytology of the Pteridophyta and Spermatophyta, including the technique of preparing materials for cytological studies.
2 lectures, 6 laboratory hours a week: 5 credits.
Prerequisite: Botany 360.

457. **Historical Biology:** See Zoology 457.

461a. **Mycology:** Plant diseases and the classification, morphology and structure of fungi.
2 lectures, 6 laboratory hours a week, one term: 2½ credits.
Prerequisites: Botany 360.

466b. **Bacteriology:** The culture, classification and life histories of selected groups of bacteria.
2 lectures, 6 laboratory hours a week, one term: 2½ credits.
Prerequisite: Botany 461a.

Courses Leading to the Degree of M.Sc.

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

555. **Plant Genetics:** Lectures, discussions, and readings on plant breeding and associated topics. 2 credits.

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.

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, 6 laboratory hours a week: 5 credits.

ZOOLOGY AND APPLIED BIOLOGY

University College

Professor: JOHN D. DETWILER, Ph.D.
Associate Professors: HELEN I. BATTLE, Ph.D. and A. W. A. BROWN, B.Sc., Ph.D., M.B.E.
Assistant Professors: W. H. JOHNSON, Ph.D.; C. J. KERSWILL, Ph.D. WILLIAM HAIGHT, B.A.; G. H. LAWLER, B.A.; J. D. MCCOLL, B.A.; MRS. GORDON MCKEE, M.A.; MRS. W. L. OLIVER, B.Sc.; W. BLAIR ORSER, B.Sc.; MARY MARGARET WHALEN, B.Sc.

Assumption College

Professor: ROBERT CUMMINGS, M.S.
Assoc. Professors: REV. A. J. GRANT, M.A.; SISTER M. RAPHAILDA, M.A.

Waterloo College

Professor: B. W. KELLEY, B.A.
Assistant Professor: C. M. CARMICHAEL, M.Sc.

ZOOLOGY

10. **Introductory Zoology:** The principles of animal biology as illustrated by a study of the structure and physiology of particular forms. To qualify for the Honors Courses in Biology a student must obtain at least 60% in this course.
2 lectures, 3 laboratory hours a week: 3 credits.
Prerequisite: complete college entrance requirements.

20. **Human Biology:** A survey of human anatomy, physiology, and embryology. 2 lectures, 3 laboratory hours a week: 3½ credits.
Given in alternate years: next in 1948–49.
Prerequisite: Biological Science 11 (60%) or Zoology 10.

21aN. **Mammalian Zoology:** The evolutionary development of structure and function in the mammals. For students in the course for nurses and in Home Economics.
2 lectures, 4 laboratory hours a week: 2 credits.
Prerequisites: Grade XIII Zoology (66%) or Biological Science 11 or Zoology 21b.

21b. **Introductory Animal Biology:** A general survey of the principles common to animal life. For students in the General Science, Home Economics and Nursing courses.
2 lectures, 3 laboratory hours a week, one term: 1½ credits.

22. **Animal Ecology:** The general relationships of animals to their environments. Given in alternate years, next in 1949–50.
2 lectures, 3 laboratory hours a week: 3½ credits.

25. **Principles of Genetics:** An introduction to Mendelian inheritance, chromosome and gene theory, and the genetic conception of species. 2 lectures a week: 2 credits.
Prerequisite: Zoology 10, or Biological Science 11 (60%).

31. **Comparative Vertebrate Zoology:** Comparative structure and function of vertebrate organ systems, introductory embryology. For students in the General Science course.
3 lectures, 3 laboratory hours a week: 4½ credits.

Honors Courses

250. **Invertebrate Zoology:** The anatomy and biology of representative invertebrate animals and the general classification of the group.
1 lecture, 3 laboratory hours a week: 2½ credits.
Prerequisite: Junior Group 1.

350. **Comparative Anatomy:** The anatomy of the chordates from the functional and the evolutionary points of view.
2 lectures, 6 laboratory hours a week: 5 credits.
Prerequisite: Zoology 250.

354. **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. 1 lecture, 3 laboratory hours a week: 2½ credits.
Prerequisite: Zoology 350a.

374. **Tissue Structure and Function:** The structure and function of cells and tissues. For students in General Science Honors. Not given until 1949–50. 1 lecture, 3 laboratory hours a week: 2½ credits.

452. **Animal Physiology:** This course will be divided into two parts: (I) Application of general physical and chemical principles to biological phenomena including an introduction to cellular physiology, and metabolic processes as illustrated by selected invertebrate and vertebrate types. 1 lecture, 3 laboratory hours a week: 2½ credits.
Prerequisite: Zoology 354.
(II) The functions of the mammalian organ systems.
1 seminar, 3 laboratory hours a week: 2½ credits.
Prerequisite: To be preceded by Zoology 452 or taken concurrently.

453. **Animal Ecology:** The general relationships of animals in their environments. Given in alternate years: next in 1948–49.
1 lecture, 3 laboratory hours a week: 2½ credits.

454. **Microscopic Anatomy and Microtechnique:** The structure and development of animal tissues and organs, including fundamental principles of embryology, and standard methods of preparing materials for microscopial study.
2 lectures, 4 laboratory hours a week: 4 credits.
Prerequisite: Zoology 354.

455. **Principles of Genetics:** The principles of Mendelian genetics and the chromosome theory. 2 lectures a week: 1 credit.
Prerequisite: Zoology 250.

457. **Historical Biology:** The history of discoveries in biology and the development of biological thought. 2 lectures a week: 2 credits.

APPLIED BIOLOGY

23S. **Biological Field-Studies:** Ontario trees, shrubs, birds, water life, insects, from the point of view of economic importance, conservation, scientific identification. Summer School only.
11 hours a week: 1½ credits.

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

Hexapoda: Morphology, organ systems and elementary classfication of insects; life-history studies of insects of major economic importance. 2 lectures, 4 laboratory hours a week: 4 credits.

Honors Courses

Prerequisite: Zoology 10 or 31.

453. **Biological Field-Studies:** An extension of classroom biology to the natural environment; essential to all Honor students majoring in Applied Biology and Zoology, and strongly recommended for all Honors students in the Department of Biological Sciences; to begin on September 20th in 1948 (one week in advance of regular classes). 40 hours: no credit.

460. **General Arthropodology:** (I) The phylogenetic relationships of the Arthropoda deduced from the study of the morphology and organ systems of selected representatives of the phylum, exclusive of the Hexapoda; life-histories and economic importance of outstanding representatives. 2½ credits in the Zoology option only.

(II) The Hexapoda (Insecta); morphology, organ systems, biological and developmental phenomena and the elementary classification of insects. 2 lectures, 6 laboratory hours a week: 5 credits.

Prerequisite: Zoology 250.

463. **Fresh-Water Biology:** An environmental study of inland waters, and the fitness of forms to their environments; problems of conservation and of aquatic wildlife. The environmental study will be broadened out into the wider concept of general animal ecology.
1 lecture, 3 laboratory hours a week: 2½ credits.

Prerequisite: Registration in Applied Biology 460.

Courses Leading to the Degree of M.Sc.

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

544. **Embryology:** Principles underlying embryological processes, with particular consideration of the development of mammals.

552. **Animal Physiology:** Seminars dealing with selected topics.

553. **Ecology:** Problems in fisheries and wildlife investigations.

554. **Histology:** A comparative and evolutionary study of the cellular structures of organs, as illustrated by selected vertebrates and invertebrates.

560. **Insect Morphology:** The laboratory requirements will depend on each student's previous preparation.

561. **Medical Arthropodology:** A study of the arthropods and arthropod vectors associated with human disease.

562. **Insect Physiology and Toxicology:** 1 lecture, 1 laboratory, and 1 seminar hour a week: 2½ credits.

BUSINESS ADMINISTRATION

University College

Professor: W. A. THOMPSON, M.B.A.
Associate Professors: BRANT BONNER, Ph.D.; E. G. JARMAIN, B.A.
Assistant Professor: R. B. TAYLOR, B.A.
Instructor: W. R. WAUGH, B.A.
Lecturers: G. A. BROOKS, M.A.; C. C. CARROTHERS, B.A., LL.B., EDWARD J. FOX, M.Sc. (Econ.), R. B. WILLIS, M.A.

Waterloo College

Assistant Professor: H. O. J. OVERGAARD, B.A.
Lecturers: D. R. ANNETT, B.Comm., Ph.D.; R. B. HAYES, B.A., F.A.I.A., C. H. SPRY, B.A., C.A.

Assumption College

Professor: GILBERT R. HORNE, M.A.

20. **Introduction to Business Organization:** General business organization, promotion of business enterprises, business finance, industrial management, marketing, administration controls. 3 hours a week: 3 credits.

30. **Accounting and Bookkeeping:** Prescribed for Secretarial Science students. 2 hours a week: 2 credits.

36. **Business Mathematics:** First term: use of fractions, billing, trade discounts, customs, bank discounts, foreign exchange, rapid calculation; second term: compound interest, annuities, bonds, asset evaluation. 2 hours a week: 2 credits.

Honors 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, 2 laboratory hours a week: 3 credits.

255. **Business Statistics:** Importance to the business executive; the use and interpretation of business and economic statistics; laboratory work; second semester includes an analysis of business conditions. 2 lectures, 2 laboratory hours a week: 3 credits.

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.

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 partnership, accounting for estates and trusts. 3 hours a week: 3 credits.

351. **Marketing:** A survey of marketing; operating statements; merchandising; channels of distribution; brand policy; price determination; marketing trends; diagnosis of marketing policy.
3 hours a week: 3 credits.

353. **Business Finance:** Financial problems of business administration, with emphasis laid on the acquisition of long-term and short-term funds. Promotion, capitalization, intercorporate relationships, working capital, dividend policy and reorganization are among the topics discussed. 3 hours a week: 3 credits.

354. **Production Management:** An introduction, commencing at the apprentice level, designed to provide a basic knowledge of manufacturing processes and their control in a plant; blue-print reading, machine-tools, the planning of machine-tool use, methods of time-study, improvement of methods, worker instruction, time-standards, job-analysis and rating, worker-rating, and the setting of wage-rates.
2 lectures and 2 laboratory hours a week: 3 credits.

450. **Cost Accounting:** A survey course for job-order and process-costs, including basic cost accounting procedures, discussions of standard costs, and control of distribution cost. 2 hours a week: 2 credits.

451. **Sales Management:** Distribution management of manufacturing and wholesale firms; sales research; distribution policies; terms of sale; sales planning; sales programs and sales promotion; sales organization; management of sales force; filling and delivery of order.
3 hours a week: 3 credits.

452. **Personnel Administration:** Designed to aid the student (a) to understand the historical development of principles and techniques of modern personnel administration both as a specialized function of modern business and as a coordinating function in general administration, and by use of these principles and techniques (b) to diagnose actual business situations. The process of instruction combines field surveys, case reports and business clinics with the aid of business executives, and the conference method. 3 hours a week: 3 credits.

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. 3 hours a week: 3 credits.

454. **Production Management:** An advanced course which includes a study of wage-administration, analysis and organization of processes, the planning of rates, the control of manufacturing operations and organization relationships. 3 hours a week: 3 credits.

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.

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.
2 hours a week: 2 credits.

461. **Retailing:** Elements of retail profit; merchandise selection; pricing; buying; merchandise control; service policies; selling; advertising; personnel; store system; accounting, auditing and finance; general management policies. 3 hours a week: 3 credits.

471. **Advertising:** The place and function of advertising in business; tne relation of advertising to the other functions in business management. The course touches only incidentally on the technique of advertising. 3 hours a week: 3 credits.

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. 3 hours a week: 1½ credits.

One Year Intensive Courses for Graduate Students Business Administration

The purpose of this course (see page 49) is to emphasize the fundamental principles in accounting, finance, production and distribution. The courses specified (Business Administration 250, 255, 351, 353, 354) will be supplemented by special lectures and by a staff-supervised field-trip to industrial plants.

Public Administration (see page 49)

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.

CHEMISTRY

University College

Professors: J. A. GUNTON, Ph.D., F.C.I.C.; JAMES W. BURNS, M.Sc., F.C.I.C., Professor of Organic Chemistry
Associate Professors: C. SIVERTZ, M.Sc., Ph.D.; K. W. HUNTEN, M.Sc., Ph.D., F.C.I.C.
Assistant Professor: J. K. WATSON, Ph.D., M.C.I.C.
Lecturer: RICHARD H. PEARCE, B.Sc.
Demonstrators: HERBERT BLADES, B.Sc.; DUNCAN CAMERON, KENNETH CARROLL, M.Sc.; JAMES HALIBURTON, M.A.Sc.; ROBERT JONES, B.Sc.; JAMES LONGFIELD, B.Sc.; KATHLEEN McLEAN, B.Sc.; NEIL MACNEIL, B.Sc.; MERLE MCPHERSON, B.Sc.

Assumption College

Professor: F. A. DEMARCO, M.A.Sc.
Associate Professors: REV. F. S. RUTH, B.A.; J. P. TRUANT, B.S.A.
Instructors: MAURICE J. MULLIGAN, M.A., and SISTER M. ISABEL of CARMEL, B.A.

Waterloo College

Professor: B. W. KELLEY, B.A.
Assistant Professor: C. M. CARMICHAEL, M.Sc.

10. **General Chemistry and Qualitative Analysis:** For Junior Group 1, General Science, Home Economics and Nursing students. 2 lectures, 3 laboratory hours a week: 3 credits.

22. **Analytical:** 2 lectures, 3 laboratory hours a week: 3 credits. Prerequisite: Chemistry 10.

33. **Organic Chemistry:** Prescribed for Home Economics, General Science and General Course students. 2 lectures, 3 laboratory hours a week: 3 credits. Prerequisites: Chemistry 10.

44. **Physical Chemistry:** For General Science and General Course students. 2 lectures, 3 laboratory hours a week: 3½ credits. Prerequisites: Chemistry 10 and 22.

46. **Biochemistry and Food Analysis:** For Home Economics, General Science and Honors Biology students. 2 lectures, 3 laboratory hours a week, first term; 1 lecture, 5 laboratory hours a week, second term: 3 credits. Prerequisites: Chemistry 22 and 33.

Honors Courses

The honors 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 2 credits.

200. **Second Course in Chemistry:** For students in Honors Chemistry, Chemistry and Physics, Biology, Geology, chemical principles. 2 lectures, 3 laboratory hours a week: 3½ credits.

251. **Treatment of Experimental Data:** For students in Honors Chemistry. 1 lecture, 2 laboratory hours a week: 2 credits.

252. **Quantitative Analysis:**
First term: 1 lecture, 3 laboratory hours;
Second term: 1 lecture, 6 laboratory hours: 4 credits.

353. **Organic Chemistry:** Lectures and laboratory exercises dealing with carbon compounds.
2 lectures, 3 laboratory hours a week: 3½ credits.
Prerequisites: Chemistry 10 and 200.

354. **Elementary Physical Chemistry:** A systematic derivation of the principles which govern reactions in chemical systems.
3 lectures, 6 laboratory hours a week: 6 credits.
Prerequisite: Chemistry 200 and 251.

452. **Advanced Analytical Chemistry:** Instrumental analysis; microscopy and semi-micro Quantitative Analysis.
1 lecture, 3 laboratory hours a week: 2½ credits.

453. **Advanced Organic Chemistry:**
Prerequisite: Chemistry 353.
3 lectures, 3 laboratory hours a week: 4½ credits.

454. **Physical Chemistry:** Thermodynamics and Kinetic Theory of Matter. 2 lectures, 3 laboratory hours a week: 3½ credits.
Prerequisite: Chemistry 354.

457. **Tutorial:** Technical report-writing; chemical literature and patents. 1 hour a week: 1 credit.

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 Honors Chemistry students and desirable for all students majoring in Chemistry.
1 credit. Combines with a comprehensive examination for 2 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: 4½ credits.

Courses Leading to M.Sc. and Ph.D. Degrees

550. **Phase Rule Studies:** 2 lectures a week: 2 credits.

551. **Electrochemistry:** 2 lectures a week: 2 credits.
2 lectures and 3 laboratory hours a week: 3½ credits.

553. **Organic:** 2 lectures a week: 2 credits.
2 lectures and 3 laboratory hours a week: 3½ credits.

554. **Physical:** 2 lectures a week: 2 credits.
2 lectures and 3 laboratory hours a week: 3½ credits.

555. **Chemistry of Surfaces:** 2 lectures a week: 2 credits.
2 lectures and 3 laboratory hours a week: 3½ credits.

558. **Seminar and Comprehensive Examination:** 2 credits.

559. **Research and Thesis Work:** 3 to 8 credits.

CLASSICS

University College

Professor: JOHN D. RALPH, Ph.D.
Associate Professor: R. E. K. PEMBERTON, M.A.

Assumption College

Professor: REV. T. J. VAHEY, M.A.
Associate Professor: SISTER M. ROSALIE, M.A.
Instructor: SISTER M. AIMÉE DU SACRÉ COEUR, M.A.

St. Peter's College

Instructors: REV. F. J. P. LAVERTY, B.A.; REV. T. J. MCCARTHY, M.A.

Ursuline College

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

Waterloo College

Professor: A. E. RAYMOND, M.A.
Lecturer: REV. ULRICH LEUPOLD, Ph.D.
Lecturer: REV. R. N. GROSZ, B.A., B.D.

Huron College

Instructor: REV. M. B. PARKER, M.A., B.D.
Lecturer: REV. C. V. MCLEAN, Ph.D., B.D.

5. **Classical Origins of Scientific Terminology:** 2 hours a week, one term: 1 credit.

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 25x and 35x (p. 114). 3 hours a week: 3 credits.

Prerequisite: complete college entrance without Greek.

10. Plato, Selected Dialogues; Colson's *Greek Reader, Part VIII*; composition, sight translation. 3 hours a week: 3 credits.

Prerequisite: Grade XII Greek or Greek 1.

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.

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.
Prerequisite: Greek 20. 3 hours a week: 3 credits.

40. Aeschylus, *Prometheus Vinctus*; Euripides, *Medea*; Sophocles, *Oedipus Tyrannus, Antigone*; lectures on the theatre and the development of the drama; composition, sight translation.
Prerequisite: Greek 30. 3 hours a week: 3 credits.

Honors Courses

Comprehensive examinations will be set for all Honors 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.
Prerequisite: Group 4, page 26. 2 hours a week: 2 credits.

250. **The Greek Epic:** Selections from the *Iliad* and the *Odyssey*.
Prerequisite: Group 4, page 26. 1 hour a week: 1 credit.

251. **Syntax and Composition:** 1 hour a week: 1 credit.
Prerequisite: Group 4, page 26.

257. **Ancient Civilizations:** The Near-East, Greece and Rome. Identical with Latin 257 and History 257. 3 lectures a week: 3 credits.

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.

350. I: **Introduction to the Greek Historians:** Herodotus.
II: **The Attic Orators:** Lysias and Demosthenes.
Prerequisite: Greek 230. 2 hours a week: 2 credits.

351. **Syntax and Composition:** 1 hour a week: 1 credit.
Prerequisite: Greek 251.

352. **Introduction to Greek Philosophy:** Plato, *Republic, I-IV*.
Prerequisite: Greek 230. 1 hour a week: 1 credit.

450. **The Greek Historians:** Thucydides.
Prerequisite: Greek 340, 350. 2 hours a week: 2 credits.

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.

453. **Philology, Epigraphy, Palaeography, Archaeology:** Lectures and readings. Taken with Latin 453.
3 hours a week, one term: 1½ credits.
Prerequisite: Greek 340, 350.

457. **Greek and Roman History:** Lectures, readings and reports. Prescribed for students in Honors Classics and optional with the consent of the instructor for other qualified students. Identical with Latin 457.
2 hours a week: 2 credits.

LATIN

10. Selections from Latin Prose and Poetry; composition and sight translation. 3 hours a week: 3 credits.
Prerequisites: Grade XII or Middle School Latin.

20. Martial; Pliny; Virgil, *Aeneid VI*; composition; sight translation. 3 hours a week: 3 credits.
Prerequisite: Latin 10 or Grade XIII Latin.

30. Catullus; Virgil, selection from the *Bucolics* and *Georgics*; selections from Horace (*Odes*) and the Elegiac Poets; composition and sight translation. 3 hours a week: 3 credits.
Prerequisite: Latin 20.

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.

40. Virgil, *Aeneid I-VI*; Horace, *Satires, Epistles*; Juvenal, *Satires*; composition, sight translation. 3 hours a week: 3 credits.
Prerequisite: Latin 30.

Honors Courses

Comprehensive examinations will be set for all Honors students at the end of the fourth year.
Sight translation is an integral part of each of the courses in Latin Authors.

230. Catullus; Virgil, selections from the *Bucolics* and *Georgics*; selections from Horace (*Odes*) and the Elegiac Poets.
Prerequisite: Group 3 or 4, page 26. 2 hours a week: 2 credits.

250. Cicero, *De Amicitia.* 1 hour a week: 1 credit.
Prerequisite: Group 3 or 4, page 26.

251. **Syntax and Composition:** 2 hours a week: 2 credits.
Prerequisite: Group 3 or 4, page 26.

257. **Ancient Civilizations:** The Near-East, Greece, Rome. Identical with History 257 and Greek 257. 3 lectures a week: 3 credits.

340. Virgil, *Aeneid I-VI*; Horace, *Satires* and *Epistles*; Juvenal, *Satires*. 2 hours a week: 2 credits.
Prerequisite: Latin 230.

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.

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.

450. **Roman Historians,** with special reference to Livy and Tacitus. 2 hours a week: 2 credits.
Prerequisites: Latin 340, 350, 352.

451. **Syntax and Compqsition:** 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*.
Prerequisites: Latin 340, 350, 352. 2 hours a week: 2 credits.

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.

457. **Greek and Roman History:** Lectures, readings and reports. Prescribed for students in Honors Classics and optional with the consent of the instructor for other qualified students. 2 hours a week: 2 credits.

ECONOMIC And POLITICAL SCIENCE

University College

Professors: *M. K. INMAN, Ph.D.; E. E. REILLY, B.S.A., M.S., F.R.E.S.
Associate Professors: W. B. HARVEY, LL.B., Ph.D.; E. G. PLEVA, Ph.D.
Assistant Professors: C. J. BITTNER, Ph.D.; DAVID IVOR, Ph.D.
Lecturers: JUDGE ERIC CROSS, M.A., K.C.; C. C. CALDER, M.A., MRS. R. W. TORRENS, M.A.

Assumption College

Professor: G. R. HORNE, M.A.
Associate Professor: REV. F. L. BURNS, Ph.D.
Assistant Professor: D. BARATH, Ph.D.
Instructor: REV. F. DE S. FLOOD, M.A., B.L.S.

Ursuline College

Instructors: MOTHER M. ST. MICHAEL, M.A.; *MOTHER M. ROSANNA, M.A.

Waterloo College

Lecturer and Head of the Department: D. R. ANNETT, M.B.A., Ph.D.
Assistant Professor: H. O. J. OVERGAARD, B.A.

Requirements for an Honors degree in Economics: for admission and standards see course-outline on page 39.

20. **Introduction to Economics:** The elementary economic concepts; production, exchange, consumption and distribution of wealth; money and banking; business cycle; full employment; labor problems; public finance; international trade; government regulation.
3 hours a week: 3 credits.

28. **Introduction to Sociology:** The study of social organization and the social process; the analysis of group life, social contacts, interaction, social forces, conflicts, accommodation, assimilation, amalgamation, and methods of social control. 3 hours a week: 3 credits.

29. **Geography of World Resources and Industries: Trade Routes and Centres:** The world's physical resources; their nature, utilization and transportation. Identical with Geography 29.
3 hours a week: 3 credits.

32. **Political Science:** (a) 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.
(b) A critical study of Socialism, Communism and Fascism.
3 hours a week: 3 credits.

*On leave, 1947-48.

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

Part 2. The development of short run economics, contemporary monetary theories and policies; international monetary problems.
3 hours a week: 3 credits.

42a. **Canadian Political, Economic and Social Problems:** A study of the organization and function of Dominion, provincial and local government in Canada; Dominion-Provincial relationships; social legislation. 3 hours a week: 1½ credits.

42b. **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.

46. **Labor Problems:** The study of labor movements, the forms of labor organizations, economic problems of labor in relation to national economy, labor legislation, methods of dealing with labor disputes, the social aspects of industrial relations. 3 hours a week: 3 credits.

48. **Population Trends and Problems:** The study of the ecological, symbiotic and socio-anthropological factors in the evolution of the human species; a critical survey of population theories; the quantitative and qualitative aspects of population; race relations, population movements, and the problems of eugenics and euthenics. Offered in 1948-9. 3 hours a week: 3 credits.

49. **Social Pathology:** The study of personality disorganization and maladjustment from the point of view of sociology; the problems of poverty, physical and mental deficiency, alcoholism, insanity, delinquency and crime; social change and social disorganization, the pathology of social groups and classes, the pathology of economic and cultural relations. Offered in 1949-50. 3 hours a week: 3 credits.

Honors Courses

The following honor courses are identical with the general courses indicated (for descriptions see preceding page), except that additional assignments will be required: 228 (28), 229 (29), 233 (33), 332 (32), 342a (42a), 342b (42b), 346 (46), 348 (48), 449 (49).

257. **Economic History of** (a) **Europe:** The economic foundations from antiquity, the developments of the Middle Ages, Mercantilism, the Industrial Revolution, *laissez faire* and Economic Nationalism.

(b) **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: 2 credits.

300. **Economic Theory:** A survey course in economic analysis and policy. 3 hours a week: 3 credits.

351. **International Relations:** (a) **Economic:** International values, foreign exchange, free trade and protection, commercial treaties, quotas and exchange controls.

(b) **Political:** 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 World Court, International Law, and the United Nations. 3 hours a week: 3 credits.

353. **Corporation Finance and Investments:** (a) The promotion and financing of business enterprises, financial controls and dividend policies. (b) The principles of investments, individual and institutional; social importance. Not given, 1948-9. 3 hours a week: 3 credits.

355. **Statistical Methods:** The application of statistical methods to Economics; graphical methods and tabulation; frequency distributions; measures of central tendency and deviation; probability; the normal curve; correlation; reliability and validity; time series; index numbers. 3 hours a week: 3 credits.

450. **History of Economic Thought:** (a) A survey of the history of economic theory, including the neo-classical school; (b) A survey of modern economic theory. 3 hours a week: 3 credits.

452. **History of Political Thought:** (a) A survey of the development of political theory from the classical period to the end of the eighteenth century; (b) A critical examination of modern political theories. 3 hours a week: 3 credits.

453. **Public Finance:** Business cycles, booms and depressions; governmental expenditures, revenues, borrowing and debt structures; the shifting and incidence of taxation; government activities and financial policies. 3 hours a week: 3 credits.

462a. **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.

478. **Sociological Theories and Methods of Research:** Seminar course. The development of sociological theories and their relation to other social sciences; the types of sociological research; critical analysis of the various points of view and approach in sociological studies; individual research projects. 3 hours a week: 3 credits.

490. **Current Economic Literature and Problems:** Seminar and research course. 2 hours a week: 2 credits.

Courses Leading to the Degree of M.A.

Advanced courses in Finance, Labor, Economic Theory and Sociology.

ENGLISH

University College

Professor: A. R. JEWITT, Ph.D.
Professor Emeritus: J. A. SPENCELEY, M.A.
Associate Professors: MRS. F. S. ALBRIGHT, M.A.; *F. STILING, M.A., C. F. KLINCK, M.A., Ph.D.
Asst. Professors: G.E.BUCKLEY, M.A.; M.H.M.MACKINNON, M.A.,Ph.D.
Instructors: W. E. D. ATKINSON, B.A.; S. R. BEHARRIELL, B.A.; T. R. DALE, M.A.; R. S. HARRIS, M.A.; DORIS LIDDICOATT, M.A.; J. R. Y. MCRAE, M.A.; T. J. PEART, B.A., JEAN I. WALKER, A.L.C.M.

Alma College

Instructor: HELEN HARDY, B.A..

Assumption College

Professors: REV. E. C. LEBEL, M. A.; SISTER M. ELECTA, M.A.
Associate Professors: *REV. E. G. LEE, M.A.; REV. J. STANLEY MURPHY, M.A.; REV. JOHN F. MURPHY, Ph.D.; SISTER M. ROSALIE, M.A.
Assistant Professors: *REV. C. P. J. CROWLEY, M.A.; REV. A. L. HIGGINS, M.A., LL.D.; W. H. KENNER, M.A.; E. S. J. PAULUS, B.A.; VIOLET LEACH, C.M.
Instructor: THOMAS ADAMS, B.A.

St. Peter's College

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

Ursuline College

Professor: MOTHER M. ST. JAMES, M.A.
Instructors: MOTHER MARY AUGUSTINE, B.A.; MOTHER M. ST. CATHERINE, B.A.

Waterloo College

Professor: W. F. TAMBLYN, Ph.D., Litt.D.
Instructor: ELAINE D. SMITH, B.A.
Lecturer: URITH T. SEYMOUR, A.T.C.M., L.C.S.E.

10. **Selected Poetry, Prose and Drama:** 2 hours a week: 2 credits.

11. **Composition:** The mechanics of writing. Numerous essays and exercises will be required. 1 hour a week: 1 credit.

19. **Public Speaking:** The principles of public speaking; the purposes, such as exposition, persuasion, belief, entertainment; assignments in selecting, arranging and delivering speeches; a brief summary of parliamentary procedure. 1 hour a week: 1 credit.

*On leave, 1947-8.

20. **General Literature:** A survey of English Literature, with emphasis on the great writers. 2 hours a week: 2 credits.

21. **Composition and Rhetoric:** The relation of material to style. Numerous essays and exercises will be required. 1 hour a week: 1 credit.

29. **Speech Fundamentals and Voice:** A theory and practice course in speech fundamentals, including phonetics, for improved oral expressiveness; attention to vocal tone, articulation, pitch, melody, quality, acceptable pronunciation. 2 hours a week: 2 credits.

30. **Literature of the Romantic Revival:** Poetry, prose and the novel from 1780 to 1832. Essays and reports will be required. 3 hours a week: 3 credits.

35. **General Literature:** A course involving the reading of selected novels, plays and poems, chiefly modern. In addition, modern prose writings will be used as models of style and as material for discussion. The writing of essays, reports and precis will be required.
Prerequisite: English 20 and 21. 3 hours a week: 3 credits.

36. **Modern British and American Drama:** A study of the leading dramatists, with a careful reading of representative plays. Not offered, 1948-9. 3 hours a week: 3 credits.

38. **American and Canadian Literature:** (English-Canadian only). Selections from the major poets and prose writers. Essays and reports will be required. 3 hours a week: 3 credits.

40. **Literature of the Victorian Period:** Poetry, prose and the novel from 1832 to 1900. Essays and reports will be required. 3 hours a week: 3 credits.

41. **Creative Writing:** Limited to fifteen students. Those wishing to register in the course should submit manuscripts to the Department of English before September first. 1 hour a week: 1 credit.

45. **Recent English Literature and American Poetry:** Poetry since Hardy and Robinson; English essays, novels, biographies and criticism of the twentieth century. 3 hours a week: 3 credits.

49. **World Literature:** Reading and discussion of selected literary works, in the original English or in translation from many languages, studied topically. Enrolment limited to fifteen. 3 hours a week, lectures and seminars: 3 credits.

Honors Courses

Beginning in May 1949, comprehensive examinations will be held at the end of the Honors Course. See page 15. Beginning in September 1949, third and fourth year Honors Courses will be offered in alternate years, the third year in 1949-50.

The following honors courses are identical with the general courses indicated (for descriptions, see page 69), except that additional reading, seminars and reports will be required: 236 (36), 330 (30), 338 (38), 440 (40), 441 (41), 445 (45).

200. **Restoration and Eighteenth Century Literature:** Prose, poetry, and drama of the period 1662 and 1780. 2 hours a week: 2 credits.

254. **Criticism, Scholarship and Bibliography:** A general introduction to English studies; literary criticism; scholarship; bibliography; writing of papers. 2 hours a week: 2 credits.

356. **English Drama to 1642:** A study of Elizabethan and Jacobean drama, with particular attention to the plays of Shakespeare. 3 hours a week: 3 credits.

357. **The History of the English Language:** 1 hour a week: 1 credit.

363. **Old English Language and Literature:** The translation of Old English prose and poetry; grammar and syntax; history of literature from the beginnings to 1150. 2 hours a week: 2 credits.

441. See 41. Optional with 468.

450. **Renaissance Literature, Non-Dramatic (1500-1660)** In prose, emphasis will be placed on the main currents of thought in the period of the Renaissance and Reformation in England and on the development of prose style from Thomas More to John Bunyan. In poetry, Spenser and Milton will be emphasized. 3 hours a week: 3 credits.

463. **Middle English Language and Literature:** Chaucer and Langland; the study of representative prose and poetry, 1150-1400; history of literature. 2 hours a week: 2 credits.

468. **English Tutorial:** Studies in English language and literature, directed by members of the department. Optional with 441. 1 hour a week,: 1 credit.

Courses Leading to the Degree of M.A.

Members of the department are prepared to conduct courses and seminars chosen from the following list. Students intending to register in any of these courses must notify the department not later than June preceding the fall term in which their work will begin.

Icelandic Language and Literature
Old English Epic and Narrative Poetry
Chaucer
Jacobean Drama
Milton
The Eighteenth Century
The Nineteenth Century

GEOGRAPHY

University College

Associate Professor: E. G. PLEVA, Ph.D.
Instructor: N. L. NICHOLSON, M.Sc., F.R.G.S.

20. **Elements of Geography:** The earth as the home of man. The elements of the physical and cultural landscape. 2 lectures and 2 hours practical work a week: 3 credits.

29. **Geography of World Resources and Industries: Trade Routes and Centers:** The world's physical resources; their nature, utilization, and transportation. 3 lectures a week: 3 credits.

30. **Advanced Physical and Cultural Geography:** Problems in cartography, climatology, geomorphology, pedology, biogeography, land utilization, and urban morphology, with special reference to southwestern Ontario. 2 lectures and 2 hours practical work a week: 3 credits.
Prerequisite: Geography 20.

31. **Elements of Geography:** The earth as the home of man; an analysis of the elements of the natural and the cultural landscapes. For General Science students only. This course is not open to students who have taken Geography 20. 2 lectures a week, one term: 1 credit.

35. **World Regional Geography:** A systematic survey of the regional geography of the world. 2 lectures and 2 hours practical work a week: 3 credits.
Prerequisite: Geography 20 or 29.

40. **Problems in Geography:** A survey of historical geography, political geography, and the philosophical foundations of modern geographical thought. 3 lectures a week: 3 credits.
Prerequisite: Any two of Geography 20, 29, 30, 35.

45. **Geography of Canada: The Natural Wealth of Canada and its Conservation:** The geographic bases of human occupance in Canada. Conservation of natural resources. 3 lectures a week: 3 credits.
Prerequisite: Geography 20 or 29.

Honors Courses

Geography 220, 229, 330, 335, 440, and 445 are identical with 20, 29, 30, 35, 40 and 45 respectively. Students who elect honors courses will cover additional material and be held strictly to the University regulations of honors standards.

500. **Seminar in Geography:** Discussions and readings on selected problems. Topics for 1948-49: Geography as a Social Study, Geographic Aspects of Regional Planning. Hours by appointment. 3 credits.
Prerequisites: Any three of Geography 220, 229, 330, 335, 440, 445.

550. **Research in Geography:** Field work and report technique as applied to a geographic problem. The systematic report and thesis-writing. Summer employment on assigned problems will be arranged. Hours by appointment. 3 credits.
Prerequisites: Any four of Geography 220, 229, 330, 335, 440, 445, 500.

GEOLOGY

University College

Professor: G. H. REAVELY, M.A., D.I.C.
Assistant Professors: G. G. SUFFEL, Ph.D.; G. WINSTON SINCLAIR, M.Sc.
Demonstrator: HUGH DOUGLAS, B.A., B.Sc.

Assumption College

Instructor: J. P. TRUANT, B.S.A.

Waterloo College

Professor: B. W. KELLEY, B.Sc.

10. **Introductory Course in Physiography and General Geology:** Geological agents and processes, the structure of the earth, geomorphology, earth materials, metamorphism and its results, an outline of earth history, fossils and their use. Laboratory work will consist of the study of specimens of the more common rocks and minerals, typical fossil specimens, the interpretation of geological maps and types of topography. Field trips. 2 lectures and 2 laboratory hours a week: 3 credits.

11. **Geological Science:** A descriptive account of the more important geological phenomena and processes, with emphasis on topics of local interest. 3 lectures a week: 3 credits.
Optional in Junior Groups 2, 3, 4, and Senior Group B.

Honors Courses

251. **Mineralogy:** Crystallography, physical and chemical properties of minerals. The description and study of about 100 common species, with considerable practice in identification, including blowpipe analysis.
For Honors Geology: 1 lecture, 4 laboratory hours a week: 3 credits.
For other courses: 1 lecture, 2 laboratory hours a week: 2 credits.

256. **Drafting:** The principles of elementary printing and drawing and the preparation of simple geologic plans and sections.
3 laboratory hours a week: 1½ credits.

263. **Invertebrate Palaeontology and Stratigraphy:** The first term is an introduction to the morphology of the principal groups of animals represented as fossils; students will acquire a knowledge of the basic techniques and literature. The second term introduces the methods of studying sedimentary rocks and interpreting them historically, as well as sedimentation and the genetic significance of sediments in nature. Laboratory includes field trips.
2 lectures, 2 laboratory hours a week: 3 credits.

310. Identical with Geology 10. (For Honors students in General Science).

351. **Optical and Descriptive Mineralogy:** The principles of optics as applied to the identification of minerals; the study of about 150 rock-forming mineral species, with practice on their identification in hand specimen and thin section.

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

354. **Origin and Formation of Mineral Deposits:** The origin of mineral deposits and a study of the principal processes involved in their formation, with a brief mention of prominent examples. Laboratory time will be devoted to the acquisition of the technique of polished section preparation and examination, as well as readings on the theory of ore deposition. 1 lecture, 2 laboratory hours a week: 2 credits.

356. **Surveying:** The principles of simple plane surveying. Stress is laid on the use of the plane-table. The principles of drafting are included and practice in map layout is given.

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

363. **Stratigraphical Palaeontology and Regional Stratigraphy:** Fossils as indices of age. A detailed study of the more important groups which have practical value in correlation; some attention to micro-fossil study; a detailed study of the geological record with emphasis on the Palaeozic, particularly that of Eastern Canada. Field trips included. 2 lectures, 2 laboratory hours a week: 3 credits.

365. **Pre-Cambrian Geology of the Canadian Shield:** General geology of the sub-provinces and principal mining districts; particular attention is given to important productive areas.

1 lecture, 1 hour class-study and discussion a week: 2 credits.

451. Identical with Geology 251 (for Honors General Science).

452. **Petrography and Petrology:** The principles and theories of igneous, sedimentary and metamorphic rock genesis; stress is laid on diversification in igneous magmas; the classification of rocks is discussed and practice in rock identification is given.

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

454. **Economic Mineral Deposits:** A study of examples of the principal types of economic mineral deposits, with special reference to Canadian occurrence; laboratory work will be divided between a study of ore suites and selected reading from original sources; considerable emphasis will be placed on the study of ores with the ore microscope.

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

455. **Structural Geology:** Primary and induced structures in igneous, sedimentary and metamorphic rocks; the physical properties of rocks and the effects of stress application; the interpretive value of cleavage and drag folding; the study of the structural control of topography. Laboratory work will include the interpretation of topographic and geologic maps. 2 lectures and 2 laboratory hours a week: 3 credits.

457. **History of Geology:** Selected readings and discussions pertaining to the history and development of the various geological sciences. Essays will be required. Class will meet by arrangement. 1 credit.

458. **Geological Field Report:** A satisfactory report of field work in which each student has engaged, embodying a knowledge of pertinent geological literature. 1 credit.

460. **Seminar Reading and Discussion:** Various subjects and problems of current important geological interest are studied and discussed. 2 hours a week: 1½ credits.

467. **Historical Geology:** An advanced course of varying content based on the interests of the class but in general concerned with the philosophy and methodology of stratigraphy.
2 lectures a week, one term: 1 credit

GERMAN LANGUAGE AND LITERATURE

University College

Professor: R. A. ALLEN, Ph.D.
Associate Professor: H. K. KALBFLEISCH, M.A.
Instructors: S. WEYL, M.A.; G. J. MAÇKENZIE, B.A.

Assumption College

Professor: REV. A. J. WEILER, B.A.
Associate Professor: TERESA BRIGID O'REILLY, B.A.

Ursuline College

Instructors: MOTHER M. FELICITAS; ELIZABETH SHARP, B.A.

Waterloo College

Associate Professor: REV. OTTO HEICK, Ph.D.
Lecturer: GERTRUDE ELIZABETH LEUPOLD, B.A.

General Courses

1. **Elementary German:** The work of Grade XII (Middle School) or its equivalent is covered. 3 hours a week: 3 credits.

5. **Elementary Scientific German:** The elements of German grammar with the reading of easy scientific German. Prescribed for second year honors science students. 3 hours a week: 3 credits.

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.

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.

30. **Outline of Modern German Literature:** From Romanticism to the present. 2 hours a week: 2 credits.
Prerequisite: German 20.

31. **Conversation, Dictation, Grammar.**
Prerequisite: German 20. 1 hour a week: 1 credit.

35. **Intermediate Scientific German:** The reading of scientific works in German and a review of basic grammatical constructions as an aid to reading. Prescribed for third year honors science students.
2 hours a week: 2 credits.
Prerequisite: German 5 or Grade XII (Middle School) German.

40. **Outline of Classical German Literature.**
Prerequisite: German 30. 2 hours a week: 2 credits.

41. **Prose Composition, Conversation, Grammar.**
Prerequisite: German 31. 1 hour a week: 1 credit.

45. **Advanced Scientific German:** The reading of scientific works in German. Prescribed for fourth year honors science students.
1 hour a week: 1 credit.
Prerequisite: German 35 or Grade XIII (Upper School) German.

Honors Courses

All students in Honors Courses will take comprehensive examinations at the end of their final year.

290. **German Romanticism.** 3 hours a week: 3 credits.
Prerequisites: Junior Group 4, see page 26.

291. **Grammar, Conversation, Composition, Phonetics.**
2 hours a week: 2 credits.
Prerequisites: Junior Group 4, see page 26.

333. **Middle High German Language and Literature:** with an introduction to Germanic philology. 2 hours a week: 2 credits.

390. **German Realism.** 3 hours a week: 3 credits.

391 **Grammar, Conversation, Composition.**
Prerequisite: German 291. 2 hours a week: 2 credits.

420. **Contemporary German Literature.**
2 hours a week: 2 credits.

480. **German Classicism.** 3 hours a week: 3 credits.

481. **Grammar, Conversation, Composition.**
Prerequisite: German 391. 3 hours a week: 3 credits.

Courses Leading to the Degree of M.A.
Advanced work in German philology, literature, philosophy.

HEBREW

University College

Professor: REV. A. H. O'NEIL, M.A., D.D.

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.

The Professors reserve the right to rearrange or change the prescription of authors in any year for intramural students.

1. Grammar; translation of *Genesis* 1-4, 18; *Psalms*, 2, 8, 19, 23, 51. 3 hours a week: 3 credits.

10. Grammar; 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 1.

20. Grammar and syntax; translation of *Amos*, *Isaiah* 1-6, 40, 50-55; *Jeremiah* 7; *Ezekiel* 14. 3 hours a week: 3 credits.
Prerequisite: Hebrew 10.

30. Grammar, syntax, pointing; principles of Hebrew poetry; translation of *Numbers* 23, 24; *Psalms* 1, 16, 24, 29, 37, 45, 50, 80, 84, 90, 91, 110, 121-134; *Ecclesiastes* 12; *Proverbs* 1-4; *Job* 28.
Prerequisite: Hebrew 20. 3 hours a week: 3 credits.

40. **Aramaic:** Brown, *Aramaic Methods, Parts I, II*; exercises, grammar, syntax, pointing, composition. 3 hours a week: 3 credits.
Prerequisite: Hebrew 30.

HISTORY

University College

Professor: A. G. DORLAND, Ph.D., F.R.S.C.
Associate Professors: F. LANDON, M.A., F.R.S.C.; S. F. MAINE, B.D., Ph.D.; J. J. TALMAN, Ph.D.
Assistant Professors: H. M. THOMAS, Ph.D.; W. BALDERSTON, Ph.D.

Assumption College

Professors: *REV. E. G. LEE, M.A.; REV. N. J. MURPHY, M.A.
Associate Professor: SISTER M. ELIZABETH THERESE, M.A.
Instructors: SISTER ALOYSIUS MARY, M.A.; EDWIN FLECHE, B.A.
Lecturer: *REV. D. T. MULVIHILL, M.A.

Ursuline College

Professor: MOTHER M. MERCEDES, M.A.

Waterloo College

Professor: ALEXANDER POTTER, Ph.D.

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.

*On leave.

20. **Mediaeval, Renaissance and Reformation History:** Lectures, prescribed readings and essay. 3 hours a week: 3 credits.

21. **The Development of Western Civilization and Thought:** A survey of the development of western civilization and thought from 1000 A.D. to the present. The great personalities of history and their contribution to the development of ideas and scientific knowledge will be especially noted. Prescribed for students in the second year of General Science. 3 hours a week: 3 credits.

31. **History of Canada:** Lectures, prescribed reading and essays. A survey from the beginning of the French Regime to the present. 2 hours a week: 2 credits.

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.

35. **History of England:** A lecture and reading course on the political and cultural development of England from the Roman Conquest to 1837. Prescribed for students in Honors History. 2 hours a week: 2 credits.

36. **Modern History (1555-1933):** Lectures, prescribed reading and essays. 3 hours a week: 3 credits.

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. 2 hours a week: 2 credits.

45a. **Mediaeval, Renaissance and Reformation History, and the Wars of Religion:** Lectures, essays and prescribed reading. The course is a condensation of History 20, 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.

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 is a condensation of History 36 and may not be chosen by a student who has credit for History 36. 3 hours a week: 1½ credits.

Honors Courses

236. **Modern History (1555-1933):** Honors students will be required to do special reading and reports in this course.
3 lectures and a seminar a week: 3 credits.
Prerequisite: Junior Group 3, page 26.

257. **Ancient Civilizations:** The Near East, Greece and Rome. Identical with Latin 257 and Greek 257.
3 hours a week, lectures and seminars: 3 credits.

331. **History of Canada:** A survey from the beginning of the French Regime to the present; lectures, prescribed reading and essays.
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. Honors students will be required to do special reading and reports in this course.
3 hours a week, lectures and seminars: 1½ credits.

354b. **History of Latin America:**
3 hours a week, lectures and seminars: 1½ credits

356b. **International Relations and World Problems:** 1918 to the present. 3 hours a week, lectures and seminars: 1½ credits.
Prerequisite: History 236.

444. **History of the United States:** See History 44; prescribed for students of the fourth year in the Honors Course in History.
3 hours a week, lectures and seminars: 3 credits.

452. **History of European Society and Institutions:** In the first term Continental Europe to 1648 will be studied. In the second term the 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: 3 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 Labor-Socialist Party.
3 hours a week, lectures and seminars: 3 credits.

Courses Leading to the Degree of M.A.

The hours and credits to be assigned will be decided by the Committee on Graduate Studies. 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. **Canadian and American History:** A seminar course in selected problems in Canadian and United States history for graduate students who have the necessary prerequisite courses. Usually the problems will be selected from the field of the student's thesis.

564. **The Colonial Period of the Americas:** A seminar and reading course dealing with the background of the Portuguese, Spanish, Dutch and English colonial policy and settlement in the Americas and in the Caribbean area to 1775.

575. **The Philosophy of History:** A seminar and reading course in selected topics dealing with the philosophy of such writers as Toynbee, Spengler, Croce and Robinson.

HOME ECONOMICS

Ursuline College

Professor: MOTHER M. DOMINICA, M.A.
Associate Professor: MOTHER M. ST. DOMINIC, B.Sc.
Instructors: ISABEL PARK, M.A.; MRS. LEONARD THORNE, B.A.

Alma College

Instructor: MARY KATHLEEN YOUNG, B.A.

Holy Names College

Instructor: SISTER M. ISIDORE, B.A.

23x. **Arts and Crafts:** Fundamentals of design and colour as applied to the home; modern handicraft suitable for use in home and school. 2 hours a week: 2 credits.

25x. **Household Administration:** A study of general principles of home construction, choice of sites, house designs, cost of dwelling, selection of home equipment and planning the work in the home. 2 hours a week: 1 credit.

26x. **Physiology:** A lecture course dealing with the structure and functions of the various parts of the human body. 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; selection and buying of household fabrics; 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, 3 laboratory hours a week: 2½ credits.

31x. **Normal Nutrition:** Normal requirements of the body; the optimum diet; food nutrients and their functions; deficiencies.
2 lecture hours a week all year, 2 laboratory hours a week, one term: Prerequisites: Home Economics 26x. 2½ credits.

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

33ax. **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.

34bx. **Home Nursing and First Aid:** Care of the sick; emergency treatment; bandaging; symptoms and isolation of disease. Essays and practical problems. 2 hours a week: 1 credit.

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

Laundry methods, 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 budgets; hygiene of clothing.

Practical work consists of the selection and construction of an infant's garment, a woolen garment, a suit, pattern designing. Essays and practical problems. 1 lecture, 3 laboratory hours a week: 2½ credits.

Prerequisite: Home Economics 30x.

41bx. **Infant and Child Care and Feeding:** Pre-natal care and diet of the expectant mother; care and nutritional needs of the infant in health and disease; the pre-school child; the growing child. Assignments. 2 lectures a week: 1 credit.

Prerequisite: Home Economics 31x.

42x. **Foods:** The study of foods and experimental cookery continued; food preservation; advanced cookery; menu planning; student demonstrations. During the second term extra time is required for the preparation and service of meals for various occasions. Readings and assignments.

1 lecture and a minimum of 3 laboratory hours a week: 3½ credits.

Prerequisite: Home Economics 32x.

45bx. **Economics of the Household:** Marketing and consumer education; family income; budgeting. 2 hours a week: 1 credit.

46ax. **Diet Therapy:** Modifications of the normal diet to meet specific dietary needs in disease; preparation of foods for these diets.

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

Prerequisite: Home Economics 31x.

47x. **Nutrition:** Seminars and reports on recent findings in nutrition. 1 hour a week: 1 credit.

Prerequisite: Home Economics 31x.

48ax. **Institutional Management:** Discussion of equipment; organization and administration of food services; preparation of foods served in large quantities. Seminars and field projects.

1 lecture, 3 laboratory hours a week, one term: 1½ credits.

Prerequisite: Home Economics 32x.

JOURNALISM

University College

Professor: GEORGE W. MCCRACKEN, B.A.

Instructor: J. L. WILD, B.A.

Lecturers: R. J. CHURCHILL, JOHN K. ELLIOTT, B.A.; ARTHUR R. FORD, B.A.; J. F. MCMILLAN, B.A.; J. J. TALMAN, Ph.D.

Assistants: FRED S. ARNOTT, J. F. CALDER, LENORE CRAWFORD, WILLIAM CORFIELD, JOHN P. GORE, W. H. HOGG, NORMAN HULL, ROBERT W. NEEDHAM, H. W. R. NEWMAN, JACK PARK, F. BEATRICE TAYLOR

Student Assistants: BRUCE G. ELLIOT, RONALD ROBERTSON

Note: All students must be proficient in typewriting by the beginning of their third year.

30. **Newspaper Production:** News gathering and writing, reporting assignments and copy critiques, newsroom organization, introduction to copy editing, feature and departmental writing, elementary picture editing, organization of the newspaper as a whole.

2 lectures, 8 laboratory and field hours a week: 5 credits.

31. **History of Journalism:** First term: origins and development of the press in England, France, Canada and the United States, relation to the evolution of democratic principles and institutions, the struggle for freedom of the press, journalism in other countries, the European underground press of 1940-45, the problem of international freedom of information; second term: development of the weekly, daily, magazine, agricultural and trade journal press in Canada, relation to political, economic and cultural history, outstanding publications and personalities in Canadian journalism, co-operative news gathering and the development of The Canadian press, other news agencies and syndicates. 2 hours a week: 2 credits.

32. **The Law of the Press:** Rights of access to news, legal guarantees and limits of freedom of the press, publication in public interest, fair comment, libel, contempt of court, copyright.

1 hour a week: 1 credit.

33b. **Civics and the Press:** Municipal, county, provincial and federal institutions as sources of news and as dependents upon news dissemination; the press as an essential factor in democratic government; direct study of a municipal council, and municipal, county, provincial and federal government offices; lectures, field work; news and feature writing assignments. 3 hours a week: 1½ credits.

40. **Newspaper Production:** Advanced reporting, copy editing, make-up and newsroom practice; lectures and group discussions on problems of reporting, editing and editorial department production; the special characteristics and requirements of weekly, provincial-daily, metropolitan-daily and week-end newspapers.

2 lectures, 8 laboratory and field hours a week: 5 credits.

41. **Editorial, Interpretive and Critical Writing:** Editorial policy, content, structure and style of the editorial and of the background article; research methods; editorial page features; the signed column; critical standards; music, book and theatre reviewing.

1 lecture, and an average of 2 field hours a week: 1½ credits.

42a. **Photographic Reporting and Picture Editing:** The news picture, the feature picture, the photo-story, the magazine illustration, the film strip, the news reel, the documentary film; picture transmission by wire and radio; composition, layout and caption writing; reproduction processes and quality of engravings; picture syndicates.

1 lecture, 1 laboratory hour a week: 1 credit.

43a. **Radio News Selection, Writing and Editing:** Writing for the ear and for the family group audience; the radio news story, the news commentary, the actuality broadcast, the documentary news program; organization of the radio newsroom.

1 lecture, 1 laboratory hour a week: 1 credit.

44b. **Current History and the Press:** A continuation of Journalism 33b with emphasis on national and international affairs; students will be required to maintain sufficient knowledge of international relations and problems to handle cable copy intelligently and in perspective; lectures, systematic reading of newspapers and periodicals, research, editorial writing and feature article assignments.

3 hours a week: 1½ credits.

45. **Seminars:** Arranged for students in small groups, designed in some cases to give a brief introduction to specialized journalistic fields, in others to provide the prospective editorial department employee with a necessary knowledge of the operation of other departments of his publication; hours and credit to be arranged.

LAW

Lecturer: C. C. CARROTHERS, B.A., LL.B., K.C.

500. **Domestic Relations:** Eversley, substituting the Canadian Statutes for the English Statutes in 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.

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.*

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* (ed. 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 21.

LIBRARY SCIENCE

University College

Instructor: CATHERINE CAMPBELL, B.A.
Lecturer: ELLA MODERWELL, B.A.

Assumption College

Instructors: L. B. LOUGHLIN, B.A.; REV. F. DE S. FLOOD, M.A., B.L.S.; SISTER ALOYSIUS MARY, M.A.

St. Peter's College

Lecturer: REV. A. J. DURAND, Ph.L.

Ursuline College

Lecturer: ELEANORE CATHERINE DONNELLY, B.A., B.L.S.

Waterloo College

Lecturer: ALETHEA JOHNSTON, B.A., B.L.S.

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.*

10S. **The Use of Books and Libraries:** Card catalogue, reference books, periodicals, bibliography, rural school libraries; stories and story telling. Summer School only. 5 hours a week: 1 credit.

MATHEMATICS AND ASTRONOMY

University College

Professors: H. R. KINGSTON, Ph.D., F.R.A.S.; *ARTHUR WOODS, M.A.
Associate Professor: G. R. MAGEE, M.S., Ph.D.
Assistant Professor: RANDAL H. COLE, Ph.D.
Instructor: JOHN T. MOORE, M.A.

Assumption College

Professor: REV. J. P. RUTH, M.A.
Assistant Professors: REV. W. F. NIGH, M.A.; MARC LAFRAMBOISE, M.A.
Instructors: SISTER M. VERONICA, B.A.; O. ROLFSON, M.A.Sc.

Ursuline College

Instructor: MOTHER M. ST. DOMINIC, B.Sc.

Waterloo College

Lecturers: MARION AXFORD, B.A.; C. M. CARMICHAEL, M.Sc.

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 and Grade XIII Algebra or Mathematics 10a.

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

18b. **Plane Trigonometry:** Chapters I to IX in the text. Not offered in University College in 1948-49. 3 hours a week: 1½ credits.

Prerequisite: Grade XII (Middle School) Mathematics.

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

20S. **Statistics:** An introductory course developing the fundamental concepts of statistics as applied in practical and scientific fields: special emphasis on topics which have direct application in the class-room and community. Summer School only. 5 hours a week: 1 credit.

21a. **Mathematics for General Science:** Approximate numbers —significant digits, standard form of writing a number, "rounding-off", relative error, contracted methods of multiplying and dividing; common logarithms, use of slide rule; the function concept and graphing—linear

*On leave, 1947-8.

functions of a single variable, power functions, the limit "e", exponential functions, logarithmic functions, use of semi-logarithmic and logarithmic graph paper; rate of change of a function of a single variable, applications of the derivative. 2 hours a week: 1 credit.

Prerequisite: Admission to General Science Course.

23T. **Business Arithmetic:** Mainly applications. Summer School only. 5 hours a week: 1 credit.

24. **Calculus:** A first course. 4 hours a week: 4 credits.

Prerequisites: Mathematics 10a, 12b, 18b or Grade XIII (Upper School) Algebra, Geometry and Trigonometry.

Text-book: Granville, Smith and Longley, *Elements of Calculus* (Ginn).

29a. **Descriptive Astronomy:** A survey course (not mathematical): the constellations; 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; lectures illustrated with lantern slides and models. 2 hours a week: 1 credit.

Text-books: Duncan, *Astronomy* (Harper).
Kingston, *An Easy Pocket Star-Guide for Beginners.*

31b. **Statistics:** Fundamental concepts of statistics with special emphasis on topics that find frequent application to biological fields; nature and scope of statistical methods. 2 hours a week: 1 credit.

Honors Courses

250. **Algebra:** Determinants and matrices, complex numbers, undetermined coefficients, partial fractions, recurring series, continued fractions, indeterminate equations of first degree, theory of equations. 2 hours a week: 2 credits.

Prerequisite: Mathematics of Junior Group 1 (page 25).

Text-books: Hall and Knight, *Higher Algebra* (Macmillan).
Lovitt, *Elementary Theory of Equations* (Prentice-Hall).

252. **Plane and Solid Analytic Geometry:** The general conic; line, plane and conicoids. 2 hours a week first term, 3 hours a week second term: 2½ credits.

Prerequisite: Mathematics of Junior Group 1 (page 25).

254. **Calculus:** A continuation of Mathematics 24. 3 hours a week: 3 credits.

Prerequisite: Mathematics of Junior Group 1 (page 25).

Text-book: Granville, Smith and Longley, *Elements of Calculus* (Ginn).

351a. **Synthetic Plane Geometry:** Geometry of the triangle and circle, forming a natural sequel to the classical plane geometry of the secondary schools. 2 hours a week: 1 credit.

Text-book: Shively, *An Introduction to Modern Geometry* (Wiley).

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.

Text-book: Morris and Brown, *Differential Equations, Revised Edition*, 1942 (Prentice-Hall).

355. **Probability and Statistics:** 2 hours a week: 2 credits.

Text-books: Hall and Knight, *Higher Algebra* (Macmillan).
Freeman, *Mathematics for Actuarial Students, Vol. II* (Cambridge).
Hoel, *Introduction to Mathematical Statistics* (Wiley).

359. **Astronomy and Navigation:** Topics of Mathematics 29a; spherical trigonometry, maps and chart projection, astronomical navigation. 2 hours a week: 2 credits.

Text-book: First Term: Duncan, *Astronomy* (Harper).

364. **Advanced Calculus:** Selected topics including an introduction to metrical differential Geometry of curves and surfaces. 2 hours a week: 2 credits.

Text-book: Widder: *Advanced Calculus*, (Prentice-Hall).

450. **Advanced Algebra:** Theory of numbers, introduction to group theory and matrix algebra. 2 hours a week: 2 credits.

452b. **Plane Analytic Projective Geometry:** 3 hours a week: 1½ credits.

Text-book: Magee, *A First Course in Plane Analytic Projective Geometry.*

453. **Investment, Life Insurance and Finite Differences:** First term: interest, discount, annuities-certain, bonds, capitalised cost, the mortality table, life annuities, life insurance premiums, policy reserves. Second term: fundamental difference forms and interpolation formulae, divided differences, central differences, mechanical quadratures, integration, Euler-Maclaurin's, Woolhouse's and Lubbock's Formulae. 3 hours a week first term, 2 hours a week second term: 2½ credits.

Text-books: Menge and Glover, *An Introduction to the Mathematics of Life Insurance* (Macmillan).
Freeman, *Mathematics for Actuarial Students, Vol. II* (Cambridge).

456. **Theory of Functions:** First term: real variable; second term: complex variable. 3 hours a week: 3 credits.

457. **History of Mathematics:** 1 hour a week: 1 credit.

463b. **Actuarial Science:** An extension of Mathematics 453a. Available only to those taking the actuarial option. 2 hours a week: 1 credit.

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 the candidates:

550. **Modern Algebra.**
552. **Projective Differential Geometry.**
554. **Calculus of Variations.**
560. **Theory of Algebraic Functions.**
562. **Metric Differential Geometry.**
564. **Differential Equations.**
572. **Higher Plane Curves.**

MUSIC

University College

Professor: HARVEY ROBB, D. D. S.
Instructor: EDWARD DALY, A. T. C. M., A. Mus.

Waterloo College

Lecturer: REV. ULRICH LEUPOLD, Ph.D.

Two courses in Music, three credits each, permit students of the University to expand their knowledge of music and their proficiency in performance. Applications should be made to the Dean of University College to ascertain if and where these options will be permitted. If allowable, they may both be counted in Senior Group B, or one in Junior Group 2, 3 or 4, and one in Senior Group B. Substitution for prescribed courses in any year of an Honors course must have the concurrence of the head of the Department involved.

The prerequisites of the courses are evidence satisfactory to the Director of Music of elementary standing in applied music (such as proficiency on a recognized instrument or in singing) or in theoretical knowledge. No student will receive credit in the courses for standing already obtained prior to entering the University; he must continue in new work to win his optional credits in Music.

Music 10 and 20 are divided into three parts: history and form, theory, and applied music. The student is allowed to choose two of the three parts. Lectures in history and form and in elementary harmony will be provided as part of the University course, but in advanced theory and applied music where individual instruction is essential each student will be responsible for his or her necessary extra fee. The University will do what it can towards providing practice facilities, but the responsibility is primarily upon the student.

10. **First Course:**

1. (a) History: the Classic period commencing with the life of Bach and Handel, and including music and life and times of Haydn, Gluck, Mozart and Beethoven.

(b) Form: a knowledge of the musical sentence, cadences and sonata form based on the work of Haydn, Mozart and Beethoven.

2. Elementary Rudiments and Harmony: a knowledge of major and minor scales, intervals, embellishments, dominant seventh chords and their inversions, and the use of primary and secondary chords and cadences.

3. Applied Music: Public performance, details of which are at the discretion of the Director of Music or an examination in technique and performance at the discretion of the Director.

20. **Second Course:**

1. (a) History: a knowledge of the music and lives of the composers of the Nineteenth Century, including von Weber, Schubert, Schumann, Chopin, Liszt, Berlioz, Wagner, Brahms, and the Russians.

(b) Form: continuance of sonata form, the suites, rondo, fugue and dance forms, etc.

2. Harmony: (a) adding three parts above a figured bass; (b) harmonizing a melody in four parts or adding a bass to a given melody using passing and auxiliary notes.

3. Applied Music: similar stipulations to the first year but of correspondingly more advanced character.

Prerequisite: Music 10 or equivalent.

PHILOSOPHY AND PSYCHOLOGY

University College

Professors: R. B. LIDDY, Ph.D., LL.D.; A. H. JOHNSON, Ph.D.
Assistant Professors: LEOLA E. NEAL, Ph.D.; GORDON H. TURNER, Ph.D.
MARY J. WRIGHT, M.A.
Instructor: M. RUTH LAZENBY, B.A.
Lecturer: CARSON E. JOHNSON, B.A.
Graduate Assistants: RALPH DEVEREUX, B.A.; MARJORIE MAPLETOFT, B.A.

Assumption College

Professors: REV. E. C. GARVEY, Ph.D.; D. BARATH, Ph.D.
Associate Professors: PATRICK FLOOD, M.A.; REV. P. J. M. SWAN, Ph.D.
Assistant Professor: REV. J. M. HUSSEY, M.A.

St. Peter's College and Ursuline College

Professor: REV. J. H. POCOCK, B.A.
Associate Professors: REV. T. W. FLANNERY, S.T.D.;
REV. L. A. WEMPLE, B.A., Ph.L.
Instructors: REV. A. J. DURAND, M.A., Ph.L.; REV. L. J. FLYNN, S.T.D., S.S.L.; REV. C. J. GIRARD, M.A., Ph.L.

Waterloo College

Assistant Professor: W. G. SCOTT, B.A.

Huron College

Professor: REV. R. H. L. SLATER, M.A., Ph.D.

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.

3 hours a week: 3 credits.

31. **Methods and Principles of Thinking:** The functions of language; definition; scientific method; fallacies in reasoning; applications in the discussion of democracy. 2 hours a week: 2 credits.

32. **The Nature of Philosophy** and its relation to the special sciences; an analysis of thinking, fallacies in reasoning.
2 hours a week: 2 credits.

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.

42. **Ethics:** A critical discussion of ethical standards in their application to problems of personal and social morality.
2 hours a week: 2 credits.

43. **Philosophy of Religion:** The nature of religion; the growth of religious experience; the relation between religion and science; the concepts of God, prayer, evil, freedom, immortality; important types of religious philosophy. 2 hours a week: 2 credits.

47. **Modern Philosophy:** The basic teachings of important philosophers from the sixteenth to the nineteenth centuries, inclusive, with particular emphasis upon their contributions to Aesthetics, Ethics, Politics, Psychology, and Religion. 2 hours a week: 2 credits.

Honors Courses

The following courses are identical with the pass courses indicated (for description see pp. 88-9) except that additional assignments will be required: 230 (30), 231 (31), 337 (37), 347 (47), 442 (42), 443 (43).

350. **Philosophical Texts:** An examination of specified source material in Greek and Modern Philosophy. Critical works will also be studied. 2 lectures, 1 seminar hour a week: 3 credits.

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:** 2 hours a week: 2 credits.

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.

Courses Leading to the Degree of M.A.

550. **Problems in Contemporary Philosophy.**

559. **Research Problems.**

Psychology

In University College, Psychology 20 or 30 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; personality. 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. **Principles and Methods:** 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 is placed upon learning, aesthetic judgment, motor aptitudes: a brief introduction to statistics. 2 lectures, 2 laboratory hours a week: 3 credits.

35S. Similar to Psychology 35, but abbreviated and condensed to 1½ credits.

36. **Genetic Psychology:** Child development with some reference to studies in the field of comparative psychology; native equipment; learning; character and personality development; child management and family relationships. 2 hours a week: 2 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; behavior problems; factors promoting mental health. 2 hours a week: 2 credits.

44. **Modern Systems of Psychology:** A critical examination of some important modern systems of psychology; Introspectionism, Functionalism, Behaviorism, Purposivism, Gestalt, Psychoanalysis. 2 hours a week: 2 credits.

46. **Applied Psychology:** The applications of psychological principles to problems in education and industry. 2 hours a week: 2 credits.

48. **Abnormal Psychology:** A consideration of abnormal activities in sensation, perception, memory, emotion, thought and behavior;

mental deficiency; the causes and symptoms of the psychoneurotic disorders; some reference to major mental disorders; psychotherapeutic techniques including hypnosis and psychoanalysis; spiritism and extrasensory perception. 2 hours a week: 2 credits.

49. **Social Psychology:** The activities of living beings in response to their social environment. 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. 2 hours a week: 2 credits.

Honors Courses

Offered in University College only.

The following courses are identical with the pass courses indicated (for description see pages 90-1), except that additional assignments will be required: 235 (35), 236 (36), 338 (38), 339 (39), 349 (49), 444 (44), 446 (46), 448 (48).

337. **Theory and Construction of Mental Tests:** Discussion of basic considerations in mental measurement; description and evaluation of typical measuring instruments and their uses; consideration of persistent problems in the field of mental measurement. 2 hours a week: 2 credits.

355. **Statistics:** The application of common statistical procedures to psychological data. 2 hours a week: 2 credits.

459. **Research Problems:** A seminar course in which students will select topics for special investigation. 3 hours a week: 3 credits.

Courses Leading to the Degree of M.A.

552. **Advanced Genetic Psychology.**

555. **Advanced Clinical Methods.**

556. **Problems in Industrial Psychology.**

558. **Advanced Abnormal Psychology.**

559. **Advanced Research Problems.**

PHYSICAL EDUCATION

University College

Professor: W. A. DEWAR, M.A.
Director for Women: MARY R. BARKER
D.P.E.
Lecturer, Football and Basketball Coach: JOHN P. METRAS
Instructors: J. R. FAIRS, M.A.; IRENE GETTAS, B.A.
Lecturer and Track and Field Coach: M. MCNIE

Assumption College

Director: REV. A. L. HIGGINS, M.A., LL.D.
Instructors: F. DEMARCO, M.A.Sc.; STANLEY NANTAIS

Ursuline College

Instructor: BERNICE HARPER, Member R.A.D.

Waterloo College

Instructors: MRS. E. F. FORBECH, ALAN CAMERON MENZIES

COURSES FOR WOMEN

Enrolment in a Physical Education course is prescribed 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, tennis, and swimming at the Y. M. C. A. pool. Occasionally hikes, deck tennis, softball or volleyball are substituted for regular classes.

The winter program offered includes instruction in badminton, basketball, bowling, correctives, folk dancing, gymnastics, hockey, swimming. Skating and skiing are extra-curricular activities for which credit may be given.

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. 3 hours a week: 1 credit.

20. **General Physical Education:** Prescribed for all women in the second year. 2 hours a week: 1 credit.
Prerequisite: Physical Education 10.

30–40. **Advanced Physical Education:** Optional for women of the third and fourth years. 2 hours a week each year: 1 credit each year.
Prerequisite: Physical Education 10, 20.

First Aid to the Injured: Open to women in all years. Evening lectures for seven weeks. Credit given for successful completion.
1 hour a week: ½ credit.

Enrolment in a Physical Education course is prescribed for students in the first and second years. Two hours a week of participation is required for both first and second terms in order to receive credit in any year.

COURSES FOR MEN

A student may elect a minimum of two different activities each year and a minimum of one activity each term. If his performance justifies it, he will receive credit for the prescribed or elective work of his year.

Fall term activities: Football, track, soccer, tennis, boxing, wrestling, fencing, basketball, volleyball, golf, training in the Armed Services. (See page 144).

Winter term activities: Boxing, wrestling, fencing, basketball, hockey, volleyball, badminton, gymnastics, first-aid, swimming, life-saving, training in the Armed Services. (See page 144).

10. **Physical Education:** Required of all men, except veterans, 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 10; elementary and advanced courses, seven lectures each, with an examination for Certificate in St. John Ambulance Association. 1 hour a week: ½ credit.

20. **Physical Education:** Required of all men, except veterans, in the second year: one elective autumn activity and one elective winter activity. 2 hours a week: 1 credit.

30, 40. **Advanced Physical Education:** Optional for men of the third and fourth years; open only to those who have had Physical Education 10 and 20; 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 30, 40. History and principles of physical education; organization and administration of a physical department. 1 hour a week: ½ credit.

Training in the Armed Services: Students, veterans excepted, who are physically fit may, on registration, affiliate themselves with one of the two armed services, that is, (1) with the army through the Canadian Officers Training Corps (C.O.T.C.), (2) 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., and ordinary seamen in the U.N.T.D. Suitable candidates in each service will be selected and trained for commissioned rank. For conditions, (see page 144).

Physical Education Credit for Veterans: Veterans are exempt from the required Physical Education for the first and second years. One credit each year will be given, however, upon completion of the requirements noted above.

PHYSICS

University College

Professors: R. C. DEARLE, M.B.E., Ph.D., F.R.S.C.; R. L. ALLEN ,M.A.; G. A. WOONTON, M.A. (*Research Professor*); ELIZABETH R. LAIRD, Ph.D. (*Honorary*)

Associate Professors: A. M. I. A. W. DURNFORD, Ph.D.; A. WILLENA FOSTER, M.A.

Instructors: E. H. TULL, B.A.Sc., P.Eng.; P. J. SANDIFORD, M.A.; J. H. BLACKWELL, M.Sc.

Senior Demonstrator: H. M. DUTTON, M.Sc.

Demonstrators: A. R. ABERCROMBIE, B.Sc.; B. F. CHOWN, B.Sc.(E.E.); H. L. GRANT, B.Sc.; D. R. HAY, M.Sc.; W. G. LESLIE, B.Sc. (E.E.); A. W. LOWE, B.S.A.; W. M. REID, B.Sc.; E. VOGAN, M.Sc.

Assumption College

Associate Professors: REV. F. S. RUTH, B.A.; T. ALESSI, M.Sc.

Instructor: SISTER M. ISABEL OF CARMEL, B.A.

Waterloo College

Professor: W. B. KELLEY, B.A.

Assistant Professor: C. M. CARMICHAEL, M.Sc.

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, 3 laboratory hours a week: 3 credits.

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 Senior Group B. 3 lectures a week: 3 credits.

21. **General Physics:** A course designed to give a survey of the basic principles in the fields of mechanics, molecular physics, heat, light and electricity. Prescribed for students in General Science.

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

31. **General Physics:** An extension of Physics 21 to cover selected topics, particularly in electricity, X-rays, radioactivity and atomic physics. 2 lectures, 3 laboratory hours a week, first term. 2 lectures a week, second term: 2½ credits.

35. **Draughting:** The elements of draughting are taught so that mechanical drawings may be appreciated and interpreted; particular attention is given to graphical solutions and the correct presentation of graphs. 3 lectures, 3 laboratory hours a week: 1½ credits.

Honors Courses

204. **General Physics:** Elementary geometrical optics, vibratory motion and wave motion; introduction to interference, diffraction, polarization, spectroscopy, radiation; sources, characteristics, transmission, reception of sound, methods of sound analysis, architectural acoustics; elementary treatment of electricity, magnetism and electron physics. 2 lectures, 3 laboratory hours a week: 3½ credits.

250. **Elements of Mechanics:** A mathematical treatment of the principles of statics and dynamics with numerous applications of physical principles. 2 lectures a week: 2 credits.

251. **Precision of Measurement:** Lectures and practical work on methods of treating data obtained in the laboratory, so as to obtain the greatest amount of useful information. Training is given in methods of calculation, representative values, precision indexes, graphical solutions. 3 lecture and laboratory hours a week: 1 credit.

254. **Sound and Light:** Elementary geometrical optics and an introduction to physical optics, sound: sources; characteristics, transmission, reception, methods of sound analysis, architectural acoustics. 2 lectures, 3 laboratory hours a week: 3½ credits.

255. **Electricity and Magnetism:** Lectures on the principles of electricity and magnetism, including an introduction to electrical measurements. 2 lectures, 3 laboratory hours a week: 3½ credits.

350. **Vector Mechanics:** An introduction to vectors and their applications to the dynamics of a particle. 3 lectures a week throughout the year, 3 laboratory hours a week in the first term: 3½ credits.

351. **Differential Equations of Mathematical Physics:** Boundary value problems are expressed and solved in the common co-ordinate systems by means of Fourier Series, cylindrical harmonics and spherical harmonics; the use of the Fourier Integral and its counterpart in other co-ordinate systems is illustrated. Green's method of solving Poisson's equation and the non-homogeneous wave equation is given brief consideration. 2 lectures a week: 2 credits.

354. **Geometrical and Physical Optics:** An advanced treatment of theoretical and applied optics.
2 lectures, 3 laboratory hours a week: 3½ credits.

359. **Modern Experimental Physics:** Laboratory work related to the lectures of Physics 376, together with experiments illustrating various techniques. 4 hours a week: 2 credits.

366. **Electronics:** Similar to 376 but with the addition of one term of laboratory work. 2 lectures a week throughout the year, 3 laboratory hours a week in the second term. 3½ credits.

376. **Electronics:** A treatment of the underlying principles of the emission of electrons and their behaviour in high vacuum tubes, gaseous tubes, cathode ray tubes and other applications together with an analysis of rectifier circuits and equivalent tube circuits leading to a study of amplifiers. 2 lectures a week: 2 credits.

377. **Circuit Analysis:** The use of the network theorems in simplifying the solution of complex electric circuits is discussed and applied. Circuits with distributed constants are illustrated by the solution of problems associated with the electrically long transmission line.
2 lectures a week: 2 credits.

379. **Laboratory:** Electrical measurements; the relation of measuring method to frequency is stressed.
9 laboratory hours a week: 4½ credits.

403a. **Thermodynamics:** Fundamental laws of thermodynamics and absolute temperature scales. Ideal work cycles and applications to gas, steam and refrigeration cycles. Specific heat and latent heat equations for simple gases. Offered for students in the General Science Course.
2 lectures, 3 laboratory hours a week, first term: 2 credits.

404b. **Sound and Light:** Identical with Physics 204b, but offered for students in the General Science Course.
2 lectures, 3 laboratory hours a week, second term: 2 credits.

451a. **Electroacoustics:** The course is developed in such a way that the concepts already used in the treatment of lumped and distributed electric circuits are made available for the calculation of acoustic systems. The laboratory course is devoted to the measurement and testing of microphones and of loud speakers and is given during the second term as part of Physics 479 after the lecture course has been completed.
3 lectures a week: 1½ credits.

453. **Thermodynamics:** A treatment of the laws of thermodynamics, heat engines, reversible cycles, radiation, energy distribution.
2 lectures a week: 2 credits.

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. **Atomic Physics:** Selected topics, with outside reading, including conduction through gases, measurement of electronic charge, radioactivity, positive ray analysis, atomic theory.
2 lectures a week: 2 credits.

458. **Seminar:** Preparation 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: 4½ credits.

470a. **Differential Equations of Physics:** Boundary value problems are solved in systems of cylindrical and spherical symmetry. The major portion of the course is devoted to Bessel's functions.
2 lectures a week: 1 credit.

470b. **Analysis of Transients:** Various methods of operational analyses are considered and inter-related. The Bromwich Integral and its relation to the Laplace Transform is studied in detail. Fourier Transforms are given some attention. 2 lectures a week: 1 credit.

471a. **Electroacoustics.** Identical with Physics 451a.

472b. **Engineering Materials and Methods:** The common raw materials of the electrical industries are surveyed so that the student knows something of their individual economics and of the individual properties which make them adaptable to specific uses.
2 lectures a week: 1 credit.

475b. **Applied Electromagnetic Theory:** The relations between wave and circuit concepts. 2 lectures a week: 1 credit.

476. **Applied Electronics:** This course extends the subject matter of Physics 276a and 376b. 2 lectures a week: 2 credits.

477. **Communication Circuits.** 2 lectures a week: 2 credits.

479. **Laboratory:** Designed as an accompaniment to the lecture work of the fourth year Radio Physics Option.
12 hours a week: 6 credits.

Graduate Courses

550. **Quantum Mechanics:** An introduction to the principle of Superposition, the Schroedinger method, the Heisenberg method and the Dirac method with applications to physical and chemical problems. 2 lectures a week: 2 credits.

551. **Theory of Measurements:** A treatment of methods of adjusting observations and of derivation of precision indexes; theory of least squares; curve fitting; correlation. 2 lectures a week: 2 credits.

554. **Quantum Theory of Line Spectra:** The development of the Lagrangian and the Hamiltonian equations of motion with their application to the Bohr atom, including the relativistic correction; the Stark effect and the Zeeman effect. 2 lectures a week: 2 credits.

555. **Electrodynamics:** 3 lectures a week: 3 credits.

558. **Seminar.**

561. **Tensor Analysis with Applications to Relativity:** and other problems in Physics. 2 lectures a week: 2 credits.

ROMANCE LANGUAGES

University College

Professors: R. W. TORRENS, Ph.D.; A. DOROTHY TURVILLE, Ph.D.
Associate Professors: W. E. COLLIN, L. ès L., M.A.; H. E. JENKIN, B.A.
Assist. Professor: FRANCES K. MONTGOMERY, M.A., Dr. de l'U. de Paris
Instructors: WILLIAM BLACKBURN, B.A., Dip. Ed.; ROLAND BLAIR, B.S.; G. J. MACKENZIE, B.A.; J. A. L. M. OGIER, L. ès L.; *ROBERT N. SHERVILL B.A.

Alma College

Instructor: JEAN M. CROSS, M.A.

Assumption College

Professor: REV. J. F. MALLON, M.A.
Associate Professors: REV. J. A. WARREN, M.A.; *SISTER AGATHE DE SICILE, Ph.D.
Instructors: SISTER M. FRANCIS EDWARD, B.A.; JAMES SLAVIN, B.A.

St. Peter's College

Professor: REV. W. F. SIMPSON, M.A.

*On leave.

Ursuline College

Professor: MOTHER M. MARIE, Ph.D.
Instructors: *MOTHER M. ROSANNA, M.A.; MARGARITA GONZÁLEZ, L.L.C.; LUCIA MOLINA.

Waterloo College

Professor: W. D. EVANS, M.A.
Instructor: J. N. ZELLER, B.A.
Lecturer: COLLEEN O. MAINES, B.A.

FRENCH

General course students may, with the consent of the Head of the Department, elect French 381 and 491 as optional credits toward graduation.

10. **Intermediate French:** Grammar, dictation, translation, oral practice. 3 hours a week: 3 credits.
Prerequisite: Grade XII French.

20. **Advanced French:** Grammar, translation, free composition, oral practice. 3 hours a week: 3 credits.
Prerequisite: French 10 or Grade XIII French.

22. **French Conversation:** Systematic oral practice for those students who wish to develop fluency in speaking French.
Prerequisite: French 20. 3 hours a week: no credit.

30. **Outline of French Literature:** Origins to 1700 A. D.
Prerequisite: French 20. 3 hours a week: 3 credits.

33. **Business and Economic French:** Business correspondence, simple transactions, selected reading. For students in Secretarial Science, optional in Business Administration. Given in University College only.
Prerequisite: French 20. 3 hours a week: 3 credits.

40. **Outline of French Literature:** From 1700 A.D. to the present time. 3 hours a week: 3 credits.
Prerequisite: French 30.

43. **Business and Economic French:** Advanced transactions, reading. For students in Secretarial Science. Given in University College only. 3 hours a week: 3 credits.
Prerequisite: French 33.

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: 1 credit.
Prerequisite: French 10 or Grade XIII French.

48. **French-Canadian Literature:** Lectures and reading on the historical and cultural background and the philosophical and literary contributions of French Canada. 3 hours a week: 3 credits.
Prerequisite: French 20.

*on leave.

Honors Courses

All students in Honors Courses will take a comprehensive examination at the end of their final year. (See page 15).

270. **French Literature of the Renaissance and Classical Periods:** Study of representative literature of the sixteenth and seventeenth centuries; reading, lectures, discussion and reports.
Prerequisite: Junior Group 4. 3 hours a week: 3 credits.

271. **Prose Composition, Phonetics.** 1 hour a week: 1 credit.
Prerequisite: Junior Group 4.

290. **French Civilization and Culture:** (Origins to 1789); survey of the most significant French cultural achievements and a study of the background which produced them; lectures, reading, reports.
Prerequisite: Junior Group 4. 2 hours a week: 2 credits.

380. **The Literature of the Eighteenth Century and French Civilization and Culture:** The second part of the course will complete French 290. covering the period 1789 to the present, Lectures, reading, discussion, reports in French. 3 hours a week: 3 credits.
Prerequisites French: 270, 290.

381. **Grammar, Phonetics and Conversation.**
Prerequisite: French 271. 3 hours a week: 3 credits.

An equivalent course is given also at Trois-Pistoles, P. Q., during July and August. For full details see special bulletin.

450a. **Mediaeval Period:** Reading of old French, historical grammar, history of mediaeval literature; reading, lectures, reports.
Prerequisite: French 380. 3 hours a week: 1½ credits.

450b. **Contemporary French Literature:** Study of some typical examples of the novel and drama of this century; reading, lectures, reports. 3 hours a week: 1½ credits.
Prerequisite: French 380.

490. **The Literature of the Nineteenth Century:** Lectures, reading and reports. 3 hours a week: 3 credits.
Prerequisite: French 380.

491. **Advanced Composition, Grammar and Phonetics.**
Prerequisite French 381. 3 hours a week: 3 credits.

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

1. **Elementary Italian:** Grammar, pronunciation, translation of simple texts. 3 or 4 hours a week: 3 credits.

10. **Intermediate Italian:** Review of grammar, translation of modern Italian. 3 hours a week: 3 credits.
Prerequisite: Italian 1 or its equivalent.

20. **Outline of Italian Literature and Civilization:** Composition, translation, history of literature. 3 hours a week: 3 credits.
Prerequisite: Italian 10.

30. **Advanced Italian:** Composition, study of Dante. Not given in 1948-9. 3 hours a week: 3 credits.
Prerequisite: Italian 20.

SPANISH

1. **Elementary Spanish:** Grammar, translation, dictation, oral practice. 3 or 4 hours a week: 3 credits.
Prerequisite: Admission requirements.

10. **Intermediate Spanish:** Grammar, translation, composition, oral practice. 3 hours a week: 3 credits.
Prerequisite: Spanish 1 or its equivalent.

20. **Advanced Spanish:** Grammar review, composition, translation, oral practice. 3 hours a week: 3 credits.
Prerequisite: Spanish 10 or its equivalent.

22. **Conversation:** Systematic oral practice for developing fluency in speaking Spanish. 3 hours a week: no credit.
Prerequisite: Spanish 20.
30, 31, 40, 41 are identical with 230, 231, 340, 341 respectively.

Honors Courses

All students in Honors Courses will take a comprehensive examination at the end of the final year. See page 15.

230. **Spanish Drama** since the 17th Century; lectures, reading, discussion, reports. 2 hours a week: 2 credits.
Prerequisite: Spanish 20.

231. **Commercial and Industrial Spanish:** Grammar, composition. 2 hours a week: 2 credits.
Prerequisite: Spanish 20.

260. **Spanish Lyric Poetry:** Lectures, reading, discussion.
Prerequisite: Spanish 20. 1 hour a week: 1 credit.

340. **Modern and Contemporary Spanish Novel:** Lectures, reading, discussion, reports. 2 hours a week: 2 credits.
Prerequisite: Spanish 230 and 260.

341. **Advanced Composition, Grammar, Commercial and Industrial Spanish.** 2 hours a week: 2 credits.
Prerequisite: Spanish 231.

360a. **History of Latin America:** Identical with History 354b.

360b. **Spanish American Literature and Civilization:** A study of the cultural history of the South American Republics.
Prerequisite: Spanish 230 and 260. 3 hours a week: 1½ credits.

451. **Historical Spanish Grammar, Composition, Conversation:** Study of phonology, morphology, reading of old Spanish texts; advanced composition and conversation. 3 hours a week: 3 credits.
Prerequisite: Spanish 341.

460. **Spanish Ballad, Picaresque Novel, Cervantes, Drama of the Golden Age:** Lectures, reading, reports. 3 hours a week: 3 credits.
Prerequisite: Spanish 340 and 360.

SECRETARIAL SCIENCE

Professor: MARY H. GILLESPIE, M.A.
Instructors: MRS. C. B. CHAPMAN, B.A.; MISS EDITH YELLAND, B.A.
Assistant: MABEL A. HYND

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.

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; centering; accuracy and time tests. 12 hours a week: 6 credits.
Prerequisite: First year of the course (page 27) without conditions.

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. 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; methods of duplicating; accuracy and time tests.
12 hours a week: 6 credits.

Prerequisites: Secretarial Science 28–29.

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 Sciences 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.

SLAVONIC LANGUAGES

INSTRUCTORS: LEO HERCBERGS, LL.B.; * LEONID IGNATIEFF, B.A.

1. **Elementary Russian:** A beginning course; pronunciation. grammar, dictation, translation, composition. 3 hours a week; 3 credits,

10. **Intermediate Russian:** Grammar, dictation, translation, composition and conversation. 3 hours a week: 3 credits.

45. **Scientific Russian:** The reading of scientific texts and articles in Russian. For Honors Science Students. 1 hour a week: 1 credit.

Prerequisite: Russian 10.

*On leave.

OPTIONS IN COURSE FOR TEACHERS

A "T" course is available only in, and counts for graduation only in, the Course for Teachers of Elementary Schools. An "S" course is offered only in the Summer Session, and is acceptable in either the General or the Teachers' Course.

Applied Biology

23S. **Biological Field-Studies:** Summer School only. 11 hours a week: 1½ credits.

Art

20T. **History of Early Art:** Design and lettering, drawing and sketching. Summer School only. 11 hours a week: 1½ credits.

30T. **History of Mediaeval and Modern Art:** Drawing, sketching and painting. Summer School only. 11 hours a week: 1½ credits. Prerequisite: Art 20T.

Economics

29T. **Community Organization:** Historical background of the Ontario rural community; economic and social characteristics of the rural community; institutions affecting rural life, such as co-operatives, Federation of Agriculture, visual education, radio forums, community centres, health organization. Summer School only. 5 hours a week: 1 credit.

39T. **Rural Sociology:** The rural citizen, the school in the community, education for rural living, co-ordination of rural interests. Summer School only. 7½ hours a week: 1½ credits.

Educational Counselling

20T. **Principles and Applications:** Summer School only. 5 hours a week: 1 credit.

30T. Continuation of 20T which is a prerequisite. Summer School only. 5 hours a week: 1 credit.

English

19S. **Speech Correction:** offered in Summer School only. 5 hours a week: 1 credit.

21T. **Composition:** A review of English grammar, spelling, the mechanics of writing, themes and conferences. Offered in Summer School only. 5 hours a week: 1 credit.

26T. **Reading:** To improve expression and comprehension, to increase reading speeds. Summer School only. 5 hours a week: 1 credit.

29S. **Clinical Methods in Speech Correction:** offered in Summer School only. 7 hours a week of lectures and clinics: 1 credit.

31T. **Composition:** Relation of material to style, making of reports and synopses, letters (business and social). Offered in the Summer School only. 5 hours a week: 1 credit.
Prerequisite: English 21T.

33T. **History of the English Language:** Vocabulary, syntax, accidence, phonology from historical point of view. Offered in the Summer School only. 5 hours a week: 1 credit.

36S. **Dramatics:** The mechanics of play-production. Offered in the Summer School only. 11 hours a week: 1½ credits.

46S. **Dramatics:** Advanced course in play-production. Offered in the Summer School only. 2½ credits.

Handicrafts

20T. **Craft Work:** for all grades. Summer School only. 11 hours a week: 1½ credits.

30T. A continuation of 20T, which is a prerequisite. Summer School only. 11 hours a week: 1½ credits.

Public Health

30T. **Introductory:** Application of general principles of sanitation to the health of the public. Previous standing in Grade XIII Chemistry and Biology desirable. Summer School only. 11 hours a week: 1½ credits.

Mathematics

20S. **Statistics:** Introductory course, with special emphasis on topics which have direct application in the class-room and community. Summer School only. 5 hours a week: 1 credit.

23T. **Business Arithmetic:** Mainly applications. Summer School only. 5 hours a week: 1 credit.

Alma College

(Founded in 1877; affiliated in 1925)

(St. Thomas, Ontario)

Principal

REV. BRUCE MILLAR, B.A., B.D.

Dean of Residence

HELEN HARDY, B.A.

Registrar

HARRIETT JOLLIFFE

For Officers of Instruction, see pp. 124-35.

Alma College is a two-year Junior College affiliated with the University of Western Ontario. It admits to its University classes students who have the University entrance requirements as set forth on p. 12, and offers them *Junior Group* 3 or 4 (p. 26) or a two-year course in Home Economics leading to a diploma in Home Economics.

Home Economics

Grade XIII standing in English and French or German or Spanish will cancel English 10, 11 and a first year *Modern Language*; Grade XIII Chemistry with Second Class standing will cancel Chemistry 10. For descriptions of the subjects listed, see the University College section.

Subject	**First Year**	*Credits*
English 10, 11, 19 (p. 68)		4
Religious Knowledge 20 or Psychology 20 (p. 90)		2 or 3
Chemistry 10 (p. 59)		3
Physical Education 10 (p. 92)		1
Home Economics 25x, 26x, 30x, 32x (p. 79)		7
Music, or Art, or Applied Art, or Modern Language (10)		3
	Second Year	
English 20, 21		3
Economics 20 or 28 or Religious Knowledge 30		3 or 2
Physical Education 20		1
Home Economics 33ax, 34bx		2
Home Economics 40x, 42x		5
Chemistry 22a, Botany 36b		3
Music, or Art, or Applied Art, or Modern Language (20)		3

Assumption College

(Windsor, Ontario)

President

VERY REV. J. H. O'LOANE, M.A.

Dean

REV. E. C. LEBEL, M.A.

Registrar

REV. J. F. MURPHY, PH.D.

For Officers of Instruction, see pp. 124-35.

Holy Names College

(in affiliation with Assumption College)

(Windsor, Ontario)

Dean

SISTER MARY ELECTA, M.A.

For Officers of Instruction, see pp. 124-35.

Assumption College, conducted by the Basilian Fathers, has been engaged in higher education for seventy-seven years. Since 1919 Assumption has been affiliated with the University of Western Ontario. The student body includes men from Windsor and vicinity, as well as many students from Michigan, Ohio, and New York states. The women's division is Holy Names College.

Admission to Assumption College may be gained with complete Middle School standing (see page 12). Graduates of accredited American High Schools may be admitted to the Freshman class upon proper certification of their record by the Principal on *a form which must be secured* from the Registrar, Assumption College. The record must show a definite recommendation by the Principal of the applicant's fitness to pursue college work. A limited number of students may be accommodated with on-campus residence and boarding facilities.

Assumption College is on the approved list for Canadian and American war veterans.

Courses Offered

The following courses are offered in Assumption College only. For those common to Assumption and University Colleges, see the University College section. For the Home Economics Diploma course in Holy Names College, see p. 106.

Philosophy and Psychology

First Year

One year's work in any Junior Group. Admission to the Sophomore Year in Honors Philosophy is subject to approval by the Registrar and the Department of Philosophy.

Subject	**Second Year**	*Credits*
English 20		2
English 21		1
Physical Education 20		1
Psychology 20x		3
Philosophy 231x		2
Philosophy 237x		2
Philosophy 250x		1
One second year foreign language		3
At least 5 credits from options approved by the Registrar and the Department		5

Subject	**Third Year**	*Credits*
English option		3
Psychology 36x		2
9 credits from these Philosophy courses: 234xb, 237x, 340x, 341xa, 341xb, 342xa, 342xb, 343xa, 343xb, 350x, 444xa, 444xb, 445xa, 445xb, 446xa, 446xb, 447x, 448x, 449x, 450x		9
At least 3 credits from options approved by the Registrar and the Department		3

Fourth Year

English option	3
12 credits in Philosophy not taken in Junior Year	12
At least 3 credits from options approved by the Registrar and the Department	3

Pre-Engineering

Through an arrangement with American Colleges of Engineering, students may complete the basic, two-year, pre-engineering course at Assumption. No student will be accepted whose average in Mathematics and the Sciences is lower than "B". Students who have not a High School credit in Solid Geometry must remove this deficiency in their Freshman year.

Freshman Year

FIRST SEMESTER	Lectures	Lab.	Semester Credits
Religion E11x	2	0	2
English 10, 11, 19	4	0	4
Chemistry E10	4	6	4
Mechanical Drawing E-1	1	6	2
Math. 18 (Trigonometry)	3	0	3
Math. 10 (Algebra)	3	0	3
Slide Rule E-12	1	0	1
SECOND SEMESTER			
Religion E11x	2	0	2
English 10, 11, 19	4	0	4
Chemistry E-10	4	6	4
Math. 12 (Analytic Geometry)	3	0	3
Descriptive Geometry E-10	1	9	3

Sophomore Year

FIRST SEMESTER	Lectures	Lab.	Semester Credits
Religion E21x	2	0	2
English 21, 31	3	0	3
Math. 24	4	0	4
Physics 10	2	3	3
Physics E10	2	3	3
Mechanical Drawing E20	1	9	3
Chemistry E-12a or	2	3	3
Surveying E-22a	2	3	3
SECOND SEMESTER			
Religion E21x	2	0	2
English 21, 31	3	0	3
Math. 24	4	0	4
Physics 10	2	3	3
Physics E-10	2	3	3
Chemistry E12b or	2	3	3
Surveying E-22b	2	3	3

Note 1—Chemical and mechanical engineering students will take Chemistry E-12; civil and architectural engineering students will take Surveying. Others have an option between the two.

Note 2—All Catholic students will take the Religion courses. Non-Catholic students will substitute a philosophy option.

Description of Courses offered only in ASSUMPTION COLLEGE

For all other courses, see the University College section.

Chemistry

E10. **General and Inorganic Chemistry:** Non-metals, and their compound; principles of Qualitative Analysis.
4 lectures, 6 laboratory hours a week: American credit hours: 8.

E12. **Qualitative Analysis:** A laboratory course covering the principles of Qualitative Analysis; the qualitative determination of the common cations and anions by macro methods. One lecture and six laboratory hours a week for one semester. American credit hours: 2.

Classics

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. 3 hours a week: 3 credits.

Engineering

E-1. **Mechanical Drawing:** Six hours of drafting room practice each week of the first semester. Lettering; use and care of instruments; orthographic projection; dimensioning; sectional views; conventional representation of screw threads. Drawings are made on drawing paper, tracing paper and tracing cloth. 2 credits.

E12. **Slide Rule:** Study in the use of the slide rule; drill in its use for engineering calculations. 1 hour a week: 1 credit.

E20. **Mechanical Drawing:** Nine hours of drafting room practice each week of the first or second semester. Isometric and perspective drawing; auxiliary views; sectional views; detail drawing of simple machines and structures; assembly drawings of the problems detailed. Blue prints and black and white prints made from tracings and drawings made in class. Students will work directly on tracing paper or vellum, and cloth tracings will be made of one or more drawings. 3 credits.
Prerequisite: E1.

E22. **Elementary Surveying:** Two hours lecture and three hours laboratory per week. Theory of plane surveying; care and use of instruments. Measurement of corrections for taping; theory of differential levelling and angular measurements; land surveys; Canadian Public Land Subdivisions (which is based on American); measurement of angles and distances of a closed traverse; differential and profile levelling practice; understanding of stadia. 3 credits.
Prerequisite: Trigonometry.

English

31. **Composition, Practical Exposition:** The methods of exposition applied to the report and to the business letter.
Prerequisite: English 21. 2 hours a week: 2 credits.

Mathematics

E10. **Descriptive Geometry:** Nine hours of each week of the second semester devoted to lectures, recitations and drawing room practice. Orthographic projection including auxiliary and oblique views. Graphical solution of problems involving points, lines, and planes. Intersection of solids and development of surfaces. All problems are drawn according to drafting room practices as regards lettering and contrast of lines. 3 credits.

Prerequisite: Mechanical Drawing E1.

Philosophy

13x. **Rational Foundations of Religion:** a philosophical discussion of man's relation to God, moral life and religion.
2 hours a week: 2 credits.

30x. **Introduction to Philosophy:** Problems, divisions and method of philosophy; the principles of natural philosophy, metaphysics, epistemology and moral philosophy; an outline of the main tendencies in the history of philosophy. 3 hours a week: 3 credits.

31x. **Logic:** Simple apprehension, judgment and the elements of deductive and inductive reasoning. 2 hours a week: 2 credits.

34xb. **The Philosophy of Democracy:** The meaning of democracy and how it can be achieved. 2 hours a week: 1 credit.

37x. **History of Greek Philosophy:** A study of the contributions of ancient Greece to philosophy. 2 hours a week: 2 credits.

40x. ***Philosophical Ideas in Modern English Literature:***
2 hours a week: 2 credits.

41xa. **Metaphysics:** Being; the transcendental attributes of being; analogy; essence and existence; act and potency; necessity and contingency; the principles of causality and sufficient reason.
3 hours a week: 1½ credits.

41xb. **Natural Theology:** The existence and attributes of God as known through natural reason. 3 hours a week: 1½ credits.

42xa. **Ethics:** An introduction to the principles of moral philosophy. 3 hours a week: 1½ credits.

42xb. **Social Philosophy:** The nature and function of society; freedom, authority, government, the family and the state.
3 hours a week: 1½ credits.

43xa. **Epistemology:** Pre-scientific and scientific knowledge; the sensible and intelligible value of experience; the metaphysical foundation of judgment, truth, opinion and belief. 3 hours a week: 1½ credits.

43xb. **Philosophy and the Special Sciences:** The development of scientific and philosophical methods. 3 hours a week: 3 credits.

44xa. **Theories of World Society:** A philosophical and historical study of suggested principles for a world society. 2 hours a week: 1 credit.

44xb. **Humanism and the Renaissance:** An historical and philosophical study of the humanist ideas of the Renaissance. 2 hours a week: 1 credit.

45xa. **The History of Political Philosophy:** Ancient, mediaeval and modern political thought. 3 hours a week: 1½ credits.

45xb. **Contemporary Political Philosophy:** Political thought after Hegel; fundamental assumptions underlying present-day political movements. 3 hours a week: 1½ credits.

46xa. **Aesthetics:** A philosophical analysis of the nature, production, enjoyment and function of the fine arts. 2 hours a week: 1 credit.

46xb. **Contemporary Philosophy:** Neo-idealism, pragmatism, positivism; neo-realism; neo-scholasticism. 2 hours a week: 1 credit.

47x. **History of Modern Philosophy:** A survey of philosophical thought from Descartes to Hegel. 2 hours a week: 2 credits.

48x. **History of Mediaeval Philosophy:** A study of the origin, development and culmination of Christian philosophy in the Middle Ages. 2 hours a week: 2 credits.

49xa. **The Concept of Nature:** The meaning of nature and the laws of nature in philosophy. 2 hours a week: 1 credit.

451x. **Problems in Social Philosophy:** 3 hours a week: 3 credits.

452x. **Thomistic Principles.** 3 hours a week: 3 credits.

453x. **Problems in Greek Thought.** 3 hours a week: 3 credits.

454x. **Thomistic Revival.** 3 hours a week: 3 credits.

456x. **Philosophy of Education.** 2 hours a week: 2 credits.

Physics

E-10. (21) **General Physics:** Light, Sound, Electricity and Magnetism. 2 lectures and 3 laboratory hours a week; Canadian credits 3; American credit hours 6.

Psychology

20x. **Introduction to Psychology:** Problems, division and methods; relations and elements of experimental and rational, theoretical and applied, individual and social psychologies. 3 hours a week: 3 credits.

35x. **Experimental Psychology:** Introduction to laboratory techniques in psychology; general notion of psychological measurements; measuring instruments and their uses.
2 lectures, 2 laboratory hours a week: 3 credits.

.36x. **Genetic and Educational Psychology:** The growth of personality; general tendencies and individual differences; problems of education. 2 hours a week: 2 credits.

37xa. **Theory and Construction of Mental Tests:** Introduction to the theory, construction and use of mental tests.
3 hours a week: 1½ credits.

37xb. **Statistical Methods in Psychology:** The notion and use of elementary statistical methods and measurements in psychology.
3 hours a week: 1½ credits.

38x. **Advanced Experimental Psychology:** A laboratory study of such processes as sensation, perception, reaction time, emotional and thought processes. 2 lectures, 2 laboratory hours a week: 3 credits.

44x. **History of Psychology:** A survey of ancient, mediaeval, modern and contemporary psychological theories.
2 hours a week: 2 credits.

46x. **Applied Psychology:** The application of psychology to the various fields of human activity. 2 hours a week: 2 credits.

49x. **Social Psychology:** The activities of man in response to his social environment; the social, cultural setting and psychological foundations of social behaviour. 2 hours a week: 2 credits.

Religious Knowledge

11x. **Religion:** The Mass and Liturgy: the history of sacrifice and of the Mass; the doctrine of the Mystical Body of Christ; a study of the liturgy of the Mass; sacramentals. Extensive reading in texts dealing with the Mass, liturgy, and the Mystical Body. 2 credits.

E11x. **Religion:** Fundamentals of Christianity: religion, natural and revealed; the historicity of the Gospels; the Person, teaching, and claims of Jesus Christ. 2 credits.

21x. **Religion:** Church History: Part 1, The Apostolic age to the 11th century; Pagan persecution, heresies, councils, monasticism, the evangelization of Europe; Part II, The 11th century to the present: feudalism, mediaeval culture, religious revolt, revolution, liberalism.
2 credits.

E21x. **Religion:** The Mystical Body of Christ: the Church as the font of grace; the sacramental system; practical applications. 2 credits.

30x. **Religion:** A Synthesis of Catholic Dogma: practical Catholic life in the Mystical Body of Christ; sanctifying one's state in life; the sacrament of matrimony. 2 credits.

40x. **Religion:** Catholic Lay Leadership: the history, principles, and methods of Catholic Action. Extensive reading and discussion of current social, intellectual, literary, educational, and artistic movements. 2 credits.

For Scholarships available at Assumption College, consult the Registrar of that College.

Huron College

(Founded in 1863)

(*London, Ontario*)

Principal
REV. A. H. O'NEIL, M.A., D.D.

Registrar and Bursar
REV. M. B. PARKER, M.A., B.D.

Dean of Residence
REV. R. H. L. SLATER, M.A., PH.D.

For Officers of Instruction, see pp. 124-35.

For the General Course with Theological Options offered jointly by Huron and University Colleges, see p. 28. The following parts of the course are taught only in Huron College.

Apologetics and Ethics

Professor: REV. R. H. L. SLATER, M.A., PH.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.

33bx. **Christian Ethics:** The ethics of the New Testament; the development of ethical thought during the Christian era; Christian ethical standards of today as they affect the individual and society. 2 hours a week, one term: 1 credit.

Biblical Greek

Instructor: REV. M. B. PARKER, M.A., B.D.
Lecturer: REV. C. V. MCLEAN, PH.D., B.D.

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 work 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.

1x. A preparatory course, leading up to a standard equivalent to matriculation, in Alexandrian (New Testament) Greek, arranged especially for theological students in Huron College. 3 hours a week: 3 credits.
See note under Greek (p. 61).

25x. The Gospels of St. Mark and St. John; Galatians; The Acts of the Apostles; composition; sight translation. Offered by Huron College. 3 hours a week: 3 credits.
Prerequisite: Greek 1 or Greek 1x or Middle School Greek.

35x. The Gospel of St. Matthew; I and II Corinthians; The Gospel of St. Luke; Romans; Pastoral Epistles. Exegesis, composition, sight translation. Offered by Huron College. 3 hours a week: 3 credits.

Church History

Professor: REV. R. H. L. SLATER, M.A., PH.D.
Lecturer: REV. M. A. GARLAND, M.A.

10ax. **Early and Mediaeval Church History: (to 1377):** Lectures, prescribed reading 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 economic movements. 3 hours a week: 1½ credits.

40x. **History of the Church in England (to 1603):** The people's faith in the 14th century; the Renaissance, and the Reformation; documents and source material. Lectures, essays and prescribed readings. 2 hours a week: 2 credits.

Homiletics

Lecturers: REV. R. R. LATIMER, M.A.;
REV. CANON A. A. TRUMPER, L.TH.

19x. **Public Reading:** Preparation and delivery of sermons. 1 hour a week: 1 credit.

29x. **Advanced Studies** in Reading the Liturgy and in Sermon Preparation: study of selected "Lyman Beecher Lectures on Preaching", preparation and delivery of sermons. 1 hour a week: 1 credit.

New Testament

Instructor: REV. R. P. D. HURFORD, D.D.

The English Bible is the text-book in all these courses.

11x. **History of 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 Judaism, apocalyptic and Jewish history, 175 B.C. to 70 A.D. 1 hour a week: 1 credit.

21x. **Synoptic Gospels and the Acts of the Apostles:** Special study of the Life and Teaching of Jesus. 1 hour a week: 1 credit.

31x. **The Life of St. Paul:** And earlier Pauline Epistles. 1 hour a week: 1 credit.

41x. **The Johannine Writings:** and the Catholic Epistles. 1 hour a week: 1 credit.

Old Testament

Lecturers: REV. C. V. MCLEAN, M.A., B.D., PH.D.; REV. R. R. LATIMER, M.A.

The English Bible is the text-book in all these courses.

10x. **Old Testament, Background and History:** 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.

20x. **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.

30x. **The Prophets and Their Message:** An interpretation of the lives and teachings of the Literary Prophets. 1 hour a week: 1 credit.

40x. **Old Testament Poetry and Philosophy:** A study of the Psalms and other poetical books; Job, Ecclesiastes, Proverbs. 1 hour a week: 1 credit.

St. Peter's Seminary College of Arts

(London, Ontario)

(Founded in 1912; affiliated in 1923)

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

Registrar
REV. T. J. MCCARTHY, M.A., S.T.D.

For Officers of Instruction, see pp. 124-35.

Honors Course in Philosophy

This course is open only to students of St. Peter's Seminary College of Arts; it leads to the degree of Bachelor of Arts in Honors Philosophy.

REQUIREMENTS FOR ADMISSION: Secondary School Graduation Diploma (page 12).

First Year

One year's work in any Junior Group. (Minimum: 17½ credits).

Admission to the Sophomore Year in Honor Philosophy is subject to approval by the Registrar and the Department of Philosophy.

Subject	Second Year	*Credits*
English 20		2
English 21		1
Physical Education 20		1
Philosophy 250x		3
Philosophy 251x		2
Philosophy 257x		2
Philosophy 260x		2
A Second Year Foreign Language		3
At least 3 credits from options approved by the Registrar and the Department		3

Third Year

English 30 or 36 or 38	3
Philosophy 351x	3
Philosophy 352x	3
Philosophy 357x	3
Philosophy 358x	2
At least 3 credits from options approved by the Registrar and the Department	3

Fourth Year

English 40 or 45	3
Philosophy 450x	2
Philosophy 451x	3
Philosophy 452x	3
Philosophy 457x	3
At least 3 credits from options approved by the Registrar and the Department	3

Note: For description of English Courses, see University College section.

Latin

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. 3 hours a week: 3 credits.

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. 3 hours a week: 3 credits.

45x. **Survey of Mediaeval and Renaissance Latin:** From the 12th Century to the present; lectures on Latin style and culture; syntax and composition. 3 hours a week: 3 credits.

Philosophy

250x. **Psychology: Dynamology:** Vegetation; sensation and perception; imagination processes; instinctive action; memory work; feeling and emotion; reflex behavior; intellectual operations; deliberation; the unconscious and abnormal phenomena; the faculty theory and modern psychological research. 3 hours a week: 3 credits.

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.

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.

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.

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 transcendal 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.

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.

'357x. **History of Philosophy from the Time of Christ to 1600 A.D.:** Philosophy during the early ages of Christianity: Greek writers: St. Justin, Athenagoras, St. Clement, Origen; Latin writers: Tertullian, Lactantius, St. Augustine, Boethius. Arabian writers: Avicenna, Algazel, Averrhoes; Jewish writers: Avicebron, Moses Maimonides; Scholastic writers: St. Anselm, St. Bonaventure, St. Albert, St. Thomas, Duns Scotus, William of Occam, Cajetan, Suarez.
3 hours a week: 3 credits.

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.

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.

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.

452x. **Social Ethics:** Domestic Society: the nature and conditions of marriage; chastity, guardian virtue of the family; the birth rate and birth control; woman and child in the family. Civil Society: the philosophy of the state; the relations between church and state; the community of nations. 3 hours a week: 3 credits.

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.

Religious Knowledge Courses

Professor: RT. REV. MAHONEY, P.A., V.G.

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.

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.

200x. **Christian Doctrine:** Lectures, prescribed reading and essays. God, the Sanctifier; the Sacramental System; the Last Things. 1 hour a week: 1 credit.

201x. **Church History:** Lectures, prescribed reading and essays. The Reformation Period and Modern Church History. 2 hours a week: 2 credits.

Ursuline College

(Affiliated in 1919)

(London, Ontario)

President
MOTHER MARY AGNES, M.A.

Dean
MOTHER M. ST. JAMES, M.A.

Registrar
MOTHER M. IGNATIUS LOYOLA

For Officers of Instruction, see pp. 124-35.

All the courses offered in University College are open to students registered in Ursuline College, subject to the acceptance of the Admissions Committees. All laboratory courses in Science are taught entirely in University College.

For the outline of the four-year course in Home Economics offered jointly by Ursuline and University Colleges, see pp. 30-1. For the descriptions of Home Economics courses, see pages 79-80.

Philosophy Courses

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. 3 hours a week: 3 credits.

33x. **Social Ethics:** Introduction to basic ethical teachings: fundamental sociological facts and concepts in a moral setting; the social problems confronting modern man. 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. 2 hours a week: 2 credits.

47x. **History of Modern Philosophy:** The transition from Mediaeval to Modern Philosophy; Modern Philosophy.
2 hours a week: 2 credits.

Religious Knowledge Courses

Professor: MONSIGNOR F. J. BRENNAN, B.C.L., S.T.L.
Lecturers: REV. G. F. CHILDS, B.A., J.C.B., J.C.L.;
MOTHER M. ST. MICHAEL, M.A.

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.

20x. **The Christian Ideal of Life:** The great commandment; the love of God in daily conduct, in worship; the love of neighbor—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, goodwill and peace among nations; liberty and the moral law. Lectures, essays and prescribed readings. 2 hours a week: 2 credits.

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.

31x. **History of Liturgy I:** Definition of liturgy; survey of expression of social consciousness in worship from Apostolic to modern times; age of persecution; the Roman mind and worship; Hellenistic influences in worship; the barbarian impact; mediaeval social piety; the Renaissance and Reformation as regards worship; modern communal attitudes towards worship. Lectures, readings and seminars.
1 hour a week: 1 credit.

40x. **Catechetics:** Application of modern pedagogical principles to the teaching of religion; methods, devices, aids, the Munich Method.
2 hours a week: 2 credits.

41x. **History of Liturgy II:** Sociology of worship up to the death of Christ; primitive religious worship; social worship among the Babylonians, Egyptians, ancient Chinese, Hindus, etc.; religion in classical times; the Old Testament; the historical books, the prophets. etc., up to and including the Messiah. 1 hour a week: 1 credit.

Waterloo College

(Waterloo, Ontario)

President
REV. HELMUT T. LEHMANN, TH.D.

Dean
REV. LLOYD H. SCHAUS, M.A., B.D.

Dean of Women and Registrar
MARION AXFORD, B.A.

For Officers of Instruction, see pp. 124-35.

In 1925 the Faculty of Arts of Waterloo College became an affiliated college of the University of Western Ontario. In January, 1930, the right of Waterloo College to proceed with courses leading to the Honors B.A. degree was officially recognized. For information about the General and Honors courses offered by the college, and the fees for the courses, consult the Registrar. The following course is taught in Waterloo College only.

Pre-Theological General Course

This course has been approved by the Evangelical Lutheran Seminary of Canada as a prerequisite for the theological course. Pre-theological students are encouraged to substitute Honors Courses, if they desire to do so.

REQUIREMENTS FOR ADMISSION: Secondary School Graduation Diploma in required subjects (see page 12) **and approval of application by the Dean of the Seminary and the Dean of the College.**

Credits will be allowed for certificates in Grade XIII subjects as specified under "Advanced Standing", page 55.

Courses numbered (x) e.g. Greek 25x, are given in the Theological Seminary by Seminary professors but are allowed for credit toward the University degree.

JUNIOR GROUP

Subject	*Credits*
English 10, 11, 19, 20, 21	7
Library Science 10a	½
Math. 10, 12, 18 (any two), or Latin 10	3
Biological or Physical Science 11	3
Physical Education 10	1
Economics 20	3
*History 14 or 20	3
One of †Greek 1 or Greek 10	3
One of †German 1, French 10, German 10, Latin 10	3
One of German 10 (or 20), French 20, Latin 20	3
Psychology 20	3

*History 20 must be taken in either the Junior or the Senior Group.
‡For those who have no Grade XII standing in these languages at entrance.

SENIOR GROUP

Philosophy 30	3
Biological or Physical Science 11	3
Physical Education 20	1
English (six credits from 30, 36, 38, 40, 45)	6
History (six credits from 20, 31, 33a, 44, 36 or 46)	6
Greek 25x and 35x	6
At least nine credits from	9

Economics 28
Hebrew 1x
Latin 26x (Ecclesiastical)
Philosophy 31, 42, 43
Psychology 36, 46, 48, 49
Religious Knowledge 21x, 22x, 23x, 24x.

For those courses which University College and Waterloo College offer in common, see the University College section. The following courses are offered in Waterloo College only:

Biblical Literature: (see Religious Knowledge).

Business Administration

457b. **Introduction to Insurance, Estates, and Trusts:** The course is survey in nature and purpose and will deal with the following topics: history and elementary principles of insurance; fire insurance; automobile insurance; casualty insurance; inland marine insurance; plans of life insurance and general policy provisions; the mortality table and the reserve; dividends and cash surrender values; beneficiaries; settlement options and annuities; agency organization; head office organization; insurance law and government regulation; history principles and practices of trust companies; "fiduciary" capacities of trust companies and legislative acts affecting them; estates planning, wills, and estates administration; security analysis and investment; mortgages as investments for financial institutions. The lectures will be given by officials from the head offices of the companies participating in the program.
2 hours a week: 1 credit.

Fine Art

20. **Introduction to Fine Art:** A general survey of the development of Art; architecture, sculpture and painting from Ancient to Modern; art criticism and theory; art in the community; art appreciation. Lectures illustrated with slides, motion-pictures and coloured reproductions. Studio periods for experiments in drawing and painting.
2 hours a week: 1½ credits.

30. **Advanced Art:** Designed to carry students a year beyond Art 20. History of Art; art criticism and theory; art in the community; art appreciation; lectures illustrated with slides, motion pictures and coloured reproductions. Studio periods for experiments in drawing and painting.
2 hours a week: 1½ credits.

Greek

For Biblical Greek 25x and 35x, see p. 114 in the Huron College section.

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.

Hebrew

1x. A study of the grammatical forms of Hebrew, and the elements of syntax; written exercises; practice in reading easy Bible passages. 3 hours a week: 3 credits.

Latin

26x. **Ecclesiastical Latin:** A study of selections from the Confessional writings of the Evangelical Lutheran Church as contained in the *Book of Concord.* 1 hour a week: 1 credit.

Music

55x. **Church Music:** A study of the development of music in the worship of the Christian Church. 1 hour a week: 1 credit.

Religious Knowledge

21x. **Biblical Literature:** A study of the times, life, and teachings of Jesus based on the Gospels. 1 hour a week: 1 credit.

22x. **Biblical Literature:** A study of the foundation and work of the early Christian Church, with special attention to the Acts and to the life and letters of Paul. 1 hour a week: 1 credit.

23x. **Biblical Literature:** A study of Old Testament history. 1 hour a week: 1 credit.

24x. **Biblical Literature:** A study of the lives and teachings of the Hebrew Prophets. 1 hour a week: 1 credit.

Officers of Instruction

SESSION 1947-1948

(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).

THOMAS ADAMS (A), *Instructor in English*
B.A., 1947. 1947

MOTHER M. AGNES (U), *Instructor in English*
B.A., 1927; M.A., Toronto, 1927. 1939

SISTER AGATHE DE SICILE (A), *Associate Professor of French*
B.A., Manitoba, 1922; M.A., *ibid.*, 1926; Ph.D., Ottawa, 1940. 1945

SISTER M. AIMÉE DU SACRÉ COEUR (A), *Instructor in Classics*
B.A., 1937; M.A., Loyola, Chicago, 1944. 1941

ELNORA EVELYN KELLY ALBRIGHT (Mrs. F. S.) (C), *Associate Professor of English*
B.A., Toronto, 1912; Barrister-at-Law, Alberta, 1919; M.A., Chicago, 1926. 1920

TULLIO ANGELO ALESSI (A), *Associate Professor of Physics*
B.A., 1945; M.Sc., Wayne, 1947. 1945

RAY LEROI ALLEN (C), *Professor of Physics*
B.A., Mt. Allison, 1917; M.A., *ibid.*, 1919. 1921

RONALD ALEXANDER ALLEN (C), *Professor of German*
B.A., Toronto, 1921; M.A., *ibid.*, 1922; Ph.D., Chicago, 1928. 1923

SISTER ALOYSIUS MARY (A), *Instructor in Library Science and History*
B.Ph., Loyola, Chicago, 1934; M.A., De Paul, Chicago, 1937; B.L.S., Catholic Univ. of America, 1943. 1940

HELEN CAROLINE ANTHONY (ALMA), *Instructor in Religious Education*
B.A., McMaster, 1936. 1945

WILLIAM ERIC DUNCAN ATKINSON (C), *Instructor in English*
B.A., Cambridge, 1938. 1945

MOTHER M. AUGUSTINE (U), *Instructor in English*
B.A., 1932. 1946

WALTER BALDERSTON (C), *Assistant Professor of History*
B.A., Cornell, 1935; Ph.D., *ibid.*, 1941. 1945

DESIRE BARATH (A), *Professor of Philosophy*
Assistant Professor of Economics
B.A., 1936; M.A., Toronto, 1938; Ph.D., *ibid.*, 1941. 1943

MARY ROSS BARKER (C), *Director of Physical Education for Women*
D.P.E., Margaret Eaton, 1931. 1935

HELEN IRENE BATTLE (C), *Associate Professor of Zoology*
B.A., 1923; M.A., 1924; Ph.D., Toronto, 1928; F.A.A.A.S., 1933. 1924

STANLEY ROSS BEHARRIELL (C), *Instructor in English*
B.A., Toronto, 1944. 1947

CHRISTOPHER JOHN BITTNER (C), *Assistant Professor of Economics*
B.A., Valparaiso, 1916; M.A., Iowa, 1924; Ph.D., *ibid.*, 1932. 1938

WILLIAM BLACKBURN (C), *Instructor in French* 1947
B.A., Oxon., 1945; Dip. Ed., *ibid.*, 1946.

JOHN HENRY BLACKWELL (C), *Instructor in Physics* 1947
B.Sc., Melbourne, 1941; M.Sc., 1947.

ROLAND HENRY BLAIR (C), *Instructor in Spanish* 1947
B.L., Institute of Santiago de Cuba, 1944; B.S., *ibid.*, 1944.

BRANT BONNER (C), *Associate Professor of Business Administration* 1947
Ph.B., Chicago, 1931; Ph.D., N. Carolina, 1942.

RIGHT REV. FRANCIS JOSEPH BRENNAN (U), *Professor of Religious Knowledge* 1923
B.C.L., Laval, 1910; S.T.L., Angelicum, Rome, 1911.

ANTHONY WILLIAM ALDRIDGE BROWN (C), *Associate Professor of Zoology and Applied Biology* 1947
B.Sc.F., Toronto, 1933; M.A., *ibid.*, 1935; Ph.D., ibid., 1936; M.B.E., 1946.

GEORGE E. BUCKLEY (C), *Assistant Professor of English* 1946
B.A., Mt. Allison, 1937; M.A., Columbia, 1942.

REV. FRANCIS LEO BURNS (A), *Associate Professor of Economics* 1936
B.A., 1928; M.A., Michigan, 1939, Ph.D., *ibid.*, 1946.

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

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

CHARLES MURRAY CARMICHAEL (W), *Assistant Professor of Science* *Lecturer in Mathematics* 1947
B.Sc., 1945; M.Sc., 1947.

ELAINE WOODROW CHAPMAN (Mrs. C. B.) (C), *Instructor in Secretarial Science* 1945
B.A., 1932.

RANDAL HUDIE COLE (C), *Assistant Professor of Mathematics* 1940
B.A., 1936; M.A., Wisconsin, 1937; Ph.D., *ibid.*, 1940.

WILLIAM EDWIN COLLIN (C), *Associate Professor of Romance Languages* 1923
L. ès L., Toulouse, 1922; M.A., 1925.

*REV. CORNELIUS P. J. CROWLEY (A), *Assistant Professor of English* 1944
B.A., Toronto, 1931; M.A., Michigan, 1945.

ROBERT CUMMINGS (A), *Professor of Biology* 1941
B.S., Detroit, 1937; M.S., *ibid.*, 1939.

THOMAS RANDALL DALE (C), *Instructor in English* 1946
B.A., Toronto, 1938; M.A., *ibid.*, 1939.

ALBERT JOHN DATARS (W), *Instructor in Religious Knowlegde* 1946
B.A., 1928.

RAYMOND COMPTON DEARLE (C), *Professor of Physics* 1919
B.A., Toronto, 1914; M.A., *ibid.*, 1915; Ph.D., *ibid.*, 1919; F.R.S.C., 1944; M.B.E., 1946.

FRANK A. DEMARCO (A), *Associate Professor of Science* 1946
B.A.Sc., Toronto, 1942; M.A.Sc., *ibid.*, 1943.

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

*On leave, 1947-48.

WILLIAM ALEXANDER DUNCAN DEWAR (C),
Director of Physical Education
B.A., 1936; M.A., Columbia, 1947. 1946

MOTHER M. DOMINICA (U),
Professor of Home Economics
B.A., Toronto, 1943; M.A., *ibid.*, 1945. 1945

ARTHUR GARRATT DORLAND (C),
Professor of History
B.A., Queen's, 1910; M.A., Yale, 1911; Ph.D., Toronto, 1927; F.R.S.C., 1935. 1920

REV. ANTHONY JOSEPH DURAND (P),
Instructor in English and Philosophy
B.A., 1931; M.A., 1939; Ph.L., Laval, 1946. 1939

ANDREW MONTAGUE ISAACSON ALEXANDER WILLIAM DURNFORD (C),
Associate Professor of Physics
B.A., 1925; M.A., 1926; Ph.D., Toronto, 1931. 1930

SISTER MARY ELECTA (A),
Professor of English
B.A., Queen's, 1914; M.A., *ibid.*, 1922. 1934

SISTER M. ELIZABETH THERESE (A),
Associate Professor of History
B.A., Queen's, 1927; M.A., 1935. 1934

WELLESLEY D. EVANS (W),
Professor of French
M.A., Toronto, 1922. 1938

JOHN RUSSELL FAIRS (C),
Instructor in Physical Education
B.Sc., 1946; M.A., Columbia, 1947. 1947

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

REV. THOMAS WEST FLANNERY (U, P),
Associate Professor of Philosophy
Ph.L., Angelicum, Rome, 1922; S.T.D., *ibid.*, 1923. 1923

EDWIN FLECHE (A),
Instructor in History
B.A., 1947. 1947

REV. FRANK DESALES FLOOD (A),
Instructor in Library Science and Physics
B.A., Toronto, 1935; B.L.S., *ibid.*, 1941; M.A., Mich., 1947 1943

PATRICK FLOOD (A),
Associate Professor of Philosophy
B.A., 1939; M.A., Toronto, 1944. 1945

REV. LEO JAMES FLYNN (U, P),
Instructor in Philosophy
B.A., 1926; S.T.D., Angleicum, Rome, 1934; S.S.L., Biblical Institute, 1936. 1936

ELVA FLORENCE FORBECK (W),
Instructor in Physical Education
1947

ALICE WILLENA FOSTER (C),
Associate Professor of Physics
B.A., Toronto, 1916; M.A., *ibid.*, 1918; F.A.A.A.S., 1940. 1922

SISTER FRANCIS EDWARD (A),
Instructor in Spanish
B.A., 1933. 1934

REV. EDWIN CHARLES GARVEY (A),
Professor of Philosophy
B.A., Toronto, 1928; M.A., *ibid.*, 1932; Ph.D., *ibid.*, 1937. 1937

IRENE GETTAS (C),
Instructor in Physical Education
B.A., 1942. 1947

MARY HAMILTON GILLESPIE (C), *Professor of Secretarial Science*
B.A., 1930; M.A., Columbia, 1941. 1935

REV. CLEOPHAS JEAN GIRARD (P), *Instructor in Philosophy*
B.A., Ottawa, 1938; M.A., *ibid.*, 1939; Ph.L., *ibid.* 1939. 1946

EMIL GODO (A), *Instructor in Botany*
B.S.A., Ontario College of Agriculture, 1945. 1947

MARGARITA GONZÁLEZ (U), *Instructor in Spanish*
L.L.C., Antioquia, 1946. 1947

ALEXANDER JOHN GRANT (A), *Professor of Biology*
B.A., Toronto, 1933; M.A., St. Bonaventure, 1944. 1945

JOHN ABERDEEN GUNTON (C), *Professor of Chemistry*
B.A., McMaster, 1916; M.A., *ibid.*, 1917; Ph.D., Illinois, 1921; F.C.I.C., 1924. 1923

HELEN HARDY (ALMA), *Instructor in English and History*
B.A., 1925; Dean of Residence, Alma College, 1942. 1927

RONALD SUTTON HARRIS (C), *Instructor in English*
B.A., Toronto, 1941; M.A., *ibid.*, 1947. 1947

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

WALTER BENNETT HARVEY (C)
Associate Professor of Economic and Political Science
B.A., Manitoba; 1914, M.A., *ibid.*, 1928; LL.B., *ibid.*, 1918; Ph.D., Chicago, 1938. 1938

OTTO WILLIAM HEICK (W), *Associate Professor of German*
A.B., Wittenberg, 1925; B.D., Hamma Divinity School, 1926; A.M., Nebraska, 1927;
Ph.D., *ibid.*, 1932. 1947

LEO HERCBERGS (C) *Instructor in German and Russian*
LL.B., London, 1939. 1947

ALBERT LELAND HIGGINS (A), *Director of Physical Education*
B.A., 1931; M.A., Houston, 1940; LL.D., St. Edward's, 1942. 1946

GILBERT RICHARD HORNE (A),
Professor of Economic and Political Science
B.A., 1931; M.A., Michigan, 1936. 1931

KENNETH WILLIAM HUNTEN (C), *Associate Professor of Chemistry*
B.A., Bishop's, 1916; B.Sc., McGill, 1923; M.Sc., *ibid.*, 1924; Ph.D., *ibid.*, 1926;
M.C.I.C., 1946. 1928

JOHN M. HUSSEY (A), *Assistant Professor of Psychology*
B.A., Toronto, 1931; M.A., Catholic University of America, 1937. 1941

*LEONID IGNATIEFF (C), *Instructor in Economics and Russian*
B.A., McGill, 1932. 1944

*MARK KEITH INMAN (C), *Professor of Economic and Political Science*
B.A., Acadia, 1925; M.A., Harvard, 1928; Ph.D., *ibid.*, 1938. 1929

SISTER M. ISABEL OF CARMEL (A), *Instructor in Science*
B.A., 1941. 1941

SISTER M. ISIDORE (A), *Instructor in Home Economics*
B.A., Manitoba, 1923. 1940

DAVID IVOR (C), *Assistant Professor of Economic and Political Science*
B.A., 1933; M.A., 1939; Ph.D., London, 1947. 1946

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*On leave.

EDWARD GRAYDON JARMAIN (C),
Associate Professor of Business Administration
B.A., 1936. 1943

HERBERT EDWARD JENKIN (C),
Associate Professor of Romance Languages
B.A., London, Kings, 1913. 1929

ARTHUR RUSSELL JEWITT (C), *Professor of English*
B.A., Dalhousie, 1926; B.A., Oxford, 1930; M.A., *ibid.*, 1932; Ph.D., Cornell, 1936. 1946

ALLISON HEARTZ JOHNSON (C), *Professor of Philosophy*
B.A., Mt. Allison, 1931; M.A., Toronto, 1932; Ph.D., *ibid.*, 1937. 1937

WALTER H. JOHNSON (C), *Assistant Professor of Zoology*
B.Sc., McGill, 1933; Ph.D., Toronto, 1937. 1943

HERBERT KARL KALBFLEISCH (C), *Associate Professor of German*
B.A., 1928; M.A., New York, 1930. 1931

BRUCE WEYLER KELLEY (W), *Professor of Science*
B.A., Queen's, 1933. 1946

WILLIAM HUGH KENNER (A), *Assistant Professor of English*
B.A., Toronto, 1945; M.A., *ibid.*, 1946. 1946

CHARLES JAMES KERSWILL (C),
Assistant Professor of Zoology and Applied Biology
B.A., Toronto, 1935; M.A., 1937; Ph.D., Toronto, 1941. 1946

HAROLD REYNOLDS KINGSTON (C),
Professor of Mathematics and Astronomy
M.A., Queen's, 1908; Ph.D., Chicago, 1914; F.R.A.S., 1924; Dean of Arts and Science, 1947. 1921

CARL FREDERICK KLINCK (C), *Associate Professor of English*
B.A., 1927: M.A. Columbia 1929: Ph. D., *ibid.*, 1943; Dean, Waterloo College, 1944-47 1928

MARC LAFRAMBOISE (A), *Assistant Professor of Mathematics*
B.A., Ottawa, 1942; M.A., Michigan, 1946. 1942

FRED LANDON (C), *Professor of History*
B.A., 1906; M.A., 1919; F.R.S.C., 1929; University Librarian, 1923-47; University Vice-President, 1946; Dean of Graduate Studies, 1947. 1917

REV. FERGUS JOSEPH PATRICK LAVERTY (P), *Instructor in Classics*
B.A., 1930. 1942

MARGARET RUTH LAZENBY (C), *Instructor in Philosophy and Psychology*
B.A., 1946. 1946

VIOLET WEBB LEACH (A), *Assistant Professor of English*
L.C.M., London, 1928; C. of. M., *ibid.*, 1930. 1943

REV. EUGENE CARLISLE LEBEL (A), *Professor of English*
B.A., Toronto, 1924; M.A., Chicago, 1931; Dean of Assumption College, 1947. 1941

*REV. EDWARD G. LEE (A), *Professor of History*
Associate Professor of English
B.A., Toronto, 1924; M.A., Chicago, 1943. 1929

REV. HELMUT T. LEHMANN (W), *Professor of Theology*
B.A., Saskatchewan, 1937; Th.D., Erlangen, 1939; President, Waterloo College, 1944. 1944

DORIS LIDDICOATT (C), *Instructor in English*
B.A., 1915; M.A., 1916. 1925

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*On leave.

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

LEWIS BURTON LOUGHLIN (A), *Instructor in Library Science*
B.A., 1938. 1938

GORDON RICHEY MAGEE (C), *Associate Professor of Mathematics*
B.A., 1925; M.S., Chicago, 1926; Ph.D., *ibid.*, 1933. 1927

RIGHT REV. ANDREW PARNELL MAHONEY (P), *Professor of Religious Knowledge*
Rector, St. Peter's Seminary College of Arts. 1920

STAR FLOYD MAINE (C), *Associate Professor of History*
B.A., 1917; B.D., Victoria, 1919; M.A., Chicago, 1922; Ph.D., *ibid.*, 1932; Director of Summer School and Extension Department, 1947. 1926

REV. JAMES FRANCIS MALLON (A), *Associate Professor of Romance Languages*
B.A., Toronto, 1929; M.A., Michigan, 1940. 1935

MOTHER M. MARIE (U), *Professor of French and Spanish*
B.A., 1925; M.A., 1928; Ph.D Toronto, 1945. 1925

REV. THOMAS JOSEPH MCCARTHY (P), *Professor of English*
Instructor in Latin
B.A., 1925; M.A., 1933; S.T.B., and S.T.L., Angelicum, Rome, 1930; S.T.D., *ibid.*, 1931. 1933

GEORGE WILLIAM MCCRACKEN (C), *Professor of Journalism*
B.A., Queen's, 1940. 1946

GORDON JACKSON MACKENZIE (C), *Instructor in Romance Languages and German*
B.A., Alberta, 1935. 1947

MALCOLM HUGH MURDOCH MACKINNON (C), *Assistant Professor of English*
B.A., Toronto, 1938; M.A., *ibid.*, 1939; Ph.D., *ibid.*, 1948. 1946

DUNCAN ARCHIBALD MCLARTY (C), *Assistant Professor of Botany*
B.A., 1934; Ph.D., Columbia, 1940. 1943

JOHN RONALD YORK MCRAE (C), *Instructor in English*
B.A., 1931; M.A., Toronto, 1940. 1947

ALAN CAMERON MENZIES (W), *Instructor in Physical Education*
1947

MOTHER M. MERCEDES (U), *Professor of History*
B.A., 1930; M.A., 1937. 1930

REV. BRUCE MILLAR (ALMA), *Principal*
B.A., 1926; B.D., Emmanuel College, 1929. 1947

LUCIA MOLINA (U), *Instructor in Spanish*
1947

FRANCES KATHLEEN MONTGOMERY (C), *Assistant Professor of Romance Languages*
B.A., 1927; M.A., 1928; Dr. de l'U. de Paris, 1930. 1930

JOHN THOMAS MOORE (C), *Instructor in Mathematics*
B.A., 1936; M.A., Wisconsin, 1938. 1947

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

REV. JOHN FRANCIS MURPHY (A), *Associate Professor of English*
B.A., 1931; M.A., Ottawa, 1942; Ph.D., *ibid.*, 1944. 1944

REV. JOSEPH STANLEY MURPHY (A), *Assistant Professor of English*
B.A., 1928; M.A., Toronto, 1934. 1932

REV. NORMAN J. MURPHY (A), *Professor of History*
B.A., 1927; M.A., Toronto, 1941. 1931

LEOLA ELLEN NEAL (C), *Assistant Professor of Psychology*
B.A., 1933; M.A., 1935; Ph.D., Toronto, 1942; Dean of Women, 1946. 1933

NORMAN LEON NICHOLSON (C), *Instructor in Geography*
B.A., 1943;F.R.G.S., 1943; M.Sc., 1947. 1946

REV. WILLIAM FRANCIS NIGH (A), *Assistant Professor of Mathematics*
B.A., 1923; M.A., Houston, 1942. 1946

JEAN AUGUSTE LOUIS MARIE OGIER (C), *Instructor in Romance Languages*
Licencié ès-lettres, Poitiers, 1944. 1947

VERY REV. JOHN HENRY O'LOANE (A), *Professor of Religious Knowledge*
B.A., Toronto, 1918; M.A., Columbia, 1931; President, Assumption College, 1946. 1924

REV. ALEXANDER HENRY O'NEIL (H, C), *Professor of Divinity and Hebrew*
B.A., 1928; B.D., 1936; M.A., 1943; D.D., 1945; Principal, Huron College. 1941

THERESA BRIDGID O'REILLY (A), *Associate Professor of German*
B.A., Toronto, 1916; M.A., *ibid.*, 1936. 1942

HERMAN OLAF JOHAN OVERGAARD (W), *Assistant Professor of Business Administration and Economics*
B.A., Manitoba, 1944. 1947

ISABEL PARK (U), *Instructor in Home Economics*
M.A., Toronto, 1946. 1947

REV. MAXWELL BAILEY PARKER (H) *Instructor in Biblical Greek*
B.A., 1928; B.D., 1935; M.A., Columbia, 1940. 1941

EUGENE S. J. PAULUS (A), *Instructor in English*
B.A., Catholic Univ. of America, 1928. 1941

THOMAS JACKSON PEART (C), *Instructor in English*
B.A., Toronto, 1947. 1947

ROBERT EDWARD KINGSDOWN PEMBERTON (C), *Associate Professor of Classics*
M.A., Oxon., 1922. 1926

EDWARD GUSTAV PLEVA (C), *Associate Professor of Geography*
B.A., Minnesota, 1934; M.A., *ibid.*, 1936; Ph.D., *ibid.*, 1939. 1938

REV. JOHN HERMAN POCOCK (U, P), *Professor of Philosophy*
B.A., Toronto, 1915. 1920

ALEXANDER OBERLANDER POTTER (W), *Professor of History*
B.Sc., Gettysburg, 1919; M.A., *ibid.*, 1920; Ph.D., Columbia, 1922. 1925

JOHN DANBY RALPH (C), *Professor of Classics*
B.A., Queen's, 1924; Ph.D., Chicago, 1936. 1925

SISTER M. RAPHAILDA (A), *Associate Professor of Biology*
B.A., De Paul, 1925; M.A., *ibid.*, 1926. 1935

ALFRED ERNEST RAYMOND (W), *Professor of Classics*
B.A., 1935; M.A., Toronto, 1936. 1944

GEORGE HAROLD REAVELY (C), *Professor of Geology*
B.A., 1925; M.A., 1928; D.I.C., London, 1936. 1928

ERIC HERMAN REBLE (W), *Instructor in Biblical Greek*
B.A., 1945. 1947

EDWARD ERNEST REILLY (C),
Professor of Economics and Political Science
B.S.A., Toronto, 1916; M.S., Wisconsin, 1924; F.R.E.S., 1940. 1926

HARVEY A. ROBB (C), *Professor of Music*
D.D.S., Toronto, 1909; Director and Professor of Music, 1947. 1945

SISTER M. ROSALIE (A), *Associate Professor of English and Latin*
B.A., Queen's, 1930; M.A., 1935. 1934

*MOTHER M. ROSANNA (U),
Instructor in French, Spanish and Economics
B.A., 1933; M.A., Catholic University of America, 1938. 1935

REV. FRANCIS SYLVESTER RUTH (A),
Associate Professor of Chemistry and Physics
B.A., Toronto, 1926. 1936

REV. JOHN PETER RUTH (A), *Professor of Mathematics*
B.A., Toronto, 1930; M.A., Michigan, 1945. 1933

MOTHER M. ST. CATHERINE (U), *Instructor in English*
B.A., 1929. 1945

MOTHER M. ST. DOMINIC (U),
Associate Professor of Home Economics and Mathematics
B.Sc., Marywood, 1945. 1946

MOTHER M. ST. JAMES (U), *Professor of English*
B.A., Queen's, 1924; M.A., *ibid.*, 1925; Dean, Ursuline College. 1925

MOTHER M. ST. MICHAEL (U), *Instructor in Economics and Latin*
B.A., 1923; M.A., Catholic University of America, 1938. 1938

PETER JOHNSTON SANDIFORD (C), *Instructor in Physics*
B.A., Toronto, 1938; M.A., *ibid.*, 1939. 1946

LLOYD HENRY SCHAUS (W), *Lecturer in Biblical Literature*
B.A., 1930; B.D., 1940; M.A., Columbia, 1938; Dean of Waterloo College, 1947. 1947

WILLIAM GEORGE SCOTT (W), *Professor of Philosophy and Psychology*
B.A., 1943. 1945

ELIZABETH SHARP (U), *Instructor in German*
B.A., 1947. 1947

ROBERT NEWTON SHERVILL (C), *Instructor in Romance Languages*
B.A., 1942; Knight Officer, Order of Orange Nassau (with Swords), 1945. 1946

---

*On leave.

REV. WILLIAM FRANCIS SIMPSON (P), *Professor of French*
B.A., 1930; M.A., 1936. 1935

GEORGE WINSTON SINCLAIR (C), *Assistant Professor of Geology*
B.Sc., Sir George Williams, 1944; M.Sc., McGill, 1945. 1946

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

REV. ROBERT HENRY LAWSON SLATER (H),
Professor of Church History and Apologetics
B.A., Cantab, 1924; M.A., *ibid.*, 1929; Ph.D., Columbia, 1948. 1948

JAMES JOSEPH SLAVIN (A), *Instructor in Romance Languages*
B.A., 1947. 1947

ELAINE DOROTHY SMITH (W), *Instructor in English*
B.A., 1945. 1947

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

*FRANK STILING (C), *Associate Professor of English*
B.A., McMaster, 1926; M.A., 1928; A.M., Michigan, 1939. 1928

GEORGE GORDON SUFFEL (C), *Assistant Professor of Geology*
B.Sc., Queen's, 1925; M.Sc., *ibid.*, 1927; Ph.D., Stanford, 1929. 1946

REV. PETER J. M. SWAN (A), *Associate Professor of Philosophy*
B.A., Toronto, 1938; M.A., *ibid.*, 1942; Ph.D., *ibid.*, 1946. 1946

JAMES J. TALMAN (C), *Associate Professor of History*
Lecturer in Journalism
B.A., 1925; M.A., 1927; Ph.D., Toronto, 1930; University Librarian, 1947. 1939

WILLIAM FERGUSON TAMBLYN (C, W), *Professor Emeritus of English*
B.A., Toronto, 1895; Ph.D., Columbia, 1899; Litt. D., 1944. 1901

ROBERT BERKELEY TAYLOR (C),
Assistant Professor of Business Administration
B.A., 1941. 1941

HARTLEY MUNRO THOMAS (C), *Assistant Professor of History*
B.A., Queen's, 1920; M.A., Harvard, 1923; Ph.D., *ibid.*, 1933. 1931

WALTER ALBERT THOMPSON (C), *Professor of Business Administration*
B.A., Drury, 1928; M.B.A., Harvard, 1930. 1930

MARIAN DERTINGER THORNE (Mrs. LEONARD) (U),
Instructor in Home Economics
1946

ROBERT WARREN TORRENS (C), *Professor of Romance Languages*
B.S., Dartmouth, 1925; M.A., Harvard, 1926; Ph.D., Cornell, 1941. 1944

JOSEPH PAUL TRUANT (A), *Associate Professor of Chemistry*
B.S.A., Toronto, 1945. 1945

ERIC HAROLD TULL (C), *Instructor in Physics*
B.A.Sc., British Columbia, 1933. 1945

GORDON HASLAM TURNER (C), *Assistant Professor of Psychology*
B.A., Toronto, 1935; M.A., *ibid.*, 1936; Ph.D., *ibid.*, 1938. 1945

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*On leave.

ADA DOROTHY TURVILLE (C), *Professor of Romance Languages*
B.A., 1917; M.A., Columbia, 1921; Ph.D., *ibid.*, 1925; certificato della R. Universita di Firenze, 1927; Adviser to Women, 1933; Dean of Women, 1942-46; F.A.G.S., 1943. 1925

REV. THOMAS JAMES VAHEY (A), *Professor of Classics*
B.A., Toronto, 1924; M.A., *ibid.*, 1926. 1926

SISTER M. VERONICA (A), *Instructor in Mathematics*
B.A., Queen's, 1929. 1942

ANSON ROBERTSON WALKER (C), *Professor of Plant Pathology*
B.A., Queen's, 1919; M.A., Toronto, 1921; F.A.A.A.S., 1933. 1925

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

REV. JOHN ARTHUR WARREN (A), *Associate Professor of French*
B.A., Toronto, 1933; M.A., Laval, 1946. 1946

JAMES KEITH WATSON (C), *Assistant Professor of Chemistry*
B.A., McMaster, 1932; M.A., *ibid.*, 1933; M.A., Toronto, 1934; Ph.D., *ibid.*, 1944; M.C.I.C., 1945. 1937

WILSON ROBERT WAUGH (C), *Instructor in Business Administration*
B.A., 1946. 1946

REV. ARTHUR JEROME WEILER (A), *Professor of German*
B.A., Toronto, 1930. 1937

REV. LESTER ALBERT WEMPLE (U, P), *Professor of Philosophy*
B.A., 1926; Ph.L., Angelicum, Rome, 1933. 1934

SHALOM WEYL (C), *Instructor in German*
B.A., Cologne, 1934; M.A., McGill, 1940. 1946

JOHN LESLIE WILD (C), *Instructor in Journalism*
B.A., 1941. 1947

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

GARNET ALEXANDER WOONTON (C), *Research Professor of Physics*
B.A., 1925; M.A., 1931. 1931

MARY JEAN WRIGHT (C), *Assistant Professor of Psychology*
B.A., 1939; M.A., Toronto, 1940. 1946

EDITH MAE YELLAND (C), *Instructor in Secretarial Science*
B.A., 1942. 1945

MARY KATHLEEN YOUNG (ALMA), *Instructor in Home Economics*
B.A., 1947. 1947

JULIUS NOAH ZELLER (W), *Instructor in French*
B.A., 1937. 1946

Sessional Appointments

DOUGLAS RUDYARD ANNETT (W), *Lecturer in Economics and Business Administration*
B. Comm., Manitoba, 1943; M.S., Columbia, 1944; M.P.A., Harvard, 1946; Ph.D., *ibid.*, 1947. 1947

BERTHA MARION AXFORD (W), *Lecturer in Mathematics*
B.A., McMaster, 1939. 1946

*On leave.

GEORGE GORDON BROOKS (C), *Lecturer in Business Administration*
B.A., Toronto, 1932; M.A., *ibid.*, 1936. 1946

CAMPBELL CARLYLE CALDER (C), *Lecturer in Economics*
B.A., 1931; M.A., Toronto, 1933; Barrister-at-Law, 1935. 1935

DOROTHY GWENDOLYN CALVERT (C), *Lecturer in Mathematics*
B.A., 1947. 1947

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

REV. GEORGE FRANCIS CHILDS (U) *Lecturer in Religious Knowledge*
B.A., 1932; J.C.B., Catholic Univ. of America, 1937; J.C.L., Angelicum, Rome, 1938. 1939

RANDOLPH JOHN CHURCHILL (C), *Lecturer in Journalism*
1946

HENRY WILLIAM EDWARD CLEGHORN (W), *Lecturer in Fine Art*
1944

ERIC WILLIAM CROSS (C), *Lecturer in Economics*
M.A., Queen's, 1925; Barrister-at-Law, 1928; K.C.; Judge, County Court of Oxford. 1944

EDWARD DALY (C), *Lecturer in Music*
A.T.C.M., 1930; A. Mus., 1948. 1946

JOHN KERR ELLIOTT (C), *Lecturer in Journalism*
B.A., 1926. 1946

ARTHUR RUTHERFORD FORD (C), *Lecturer in Journalism*
B.A., Toronto, 1903; Chancellor of the University, 1946. 1946

EDWARD JACKSON FOX (C), *Lecturer in Business Administration*
B.A., 1935; M.Sc., (Econ.) London, 1937. 1947

REV. MERVIN ANSLEY GARLAND (H), *Lecturer in Church History*
B.A., 1925; M.A., 1927. 1931

JOSEPH MARTIN GRAHAM (A), *Lecturer in English*
B.A., 1947. 1947

ROY NORMAN GROSZ (W), *Lecturer in Classics*
B.A., 1944; B.D., *ibid.*, 1947. 1946

BERNICE HARPER (U), *Instructor in Physical Education*
1947

REA BRUCE HAYES (W), *Lecturer in Business Administration*
B.A., Toronto, 1936; F.A.S., F.A.I.A., 1945. 1947

REV. REGINALD PERCIVAL DAN HURFORD (H), *Lecturer in New Testament*
B.D., Wycliffe, 1920; D.D., *ibid.*, 1934. 1944

MABEL AGNES HYND (C), *Assistant in Secretarial Science*
1919

CARSON ELSTON JOHNSON (C), *Lecturer in Psychology*
B.A., 1946. 1946

ALETHEA JOHNSTON (W), *Lecturer in Library Science*
B.A., 1934; B.L.S., Toronto, 1939. 1946

ROBERT ALEXANDER JONES (C), *Lecturer in Chemistry*
B.Sc., 1947. 1947

REV. RALPH ROBERTSON LATIMER (H), *Lecturer in Old Testament and Homiletics* 1938
B.A., McMaster, 1930; M.A., *ibid.*, 1932.

GERTRUDE ELIZABETH LEUPOLD (W), *Lecturer in German* 1947
B.A., 1940.

REV. ULRICH LEUPOLD (W), *Director of Music and Lecturer in Greek* 1945
Ph.D., Berlin, 1932.

COLLEEN O'HARA MAINES (W), *Lecturer in Spanish* 1947
B.A., Toronto, 1947.

REV. CHARLES VICTOR MCLEAN (H), *Lecturer in Old Testament* 1947
B.A., Toronto, 1909; M.A., *ibid.*, 1910; B.D., Union Theological Seminary, 1912; Ph.D., Columbia, 1929.

JAMES FENWICK MCMILLAN (C), *Lecturer in Journalism* 1946
B.A., 1920.

ELLA MARGARET MODERWELL (C), *Lecturer in Library Science* 1945
B.A., 1944.

MARION SHIPLEY MOSS (C), *Senior Demonstrator in Botany* 1946
B.Sc., Alberta, 1945.

*REV. DANIEL JOSEPH MULVIHILL (A), *Lecturer in History* 1942
B.A., 1937; M.A., Mich., 1946.

RICHARD HUGH PEARCE (C), *Lecturer in Chemistry* 1947
B.Sc., 1946.

ORVILLE ROLFSON (A), *Lecturer in Mathematics* 1943
B.A., Toronto, 1907; M.A. Sc., *ibid.*, 1915.

JEAN CHARLOTTE SCHMEIDER (Mrs. HENRY) (W), *Lecturer in English* 1944
B.A., 1943.

URITH TAYLOR SEYMOUR (W), *Lecturer in English* 1945
A.T.C.M., Toronto, 1914; L.C.S.E., *ibid.*, 1915.

CHARLES HUBERT SPRY (W), *Lecturer in Business Administration* 1946
B.A., 1938; C.A., I.C.A., Ontario, 1941.

ELEANOR GRAVES TORRENS (Mrs. R. W.) (C), *Lecturer in Economics* 1945
B.A., North Carolina, 1928; M.A., *ibid.*, 1929.

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

REV. FRANCIS ANTHONY WALSH (A), *Lecturer in Religious Knowledge* 1934
B.A., 1929.

*On leave, 1947-48.

Medals, Scholarships and Prizes

I. Undergraduate

UNIVERSITY

University Gold Medals for competition in the final year of these Honors Courses offered by University College of Arts and Science:

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;
French and Latin;
French and Spanish;
Geology;
History;
Philosophy and Psychology;
Physics and Mathematics;
Psychology and Philosophy;
Social Science;
Zoology.

The Joseph J. and Annie R. Kingston Gold Medal: final year Mathematics, University College.
(Endowed by Dr. H. R. Kingston in memory of his parents.)

Governor-General's Medal: Senior Group, General Course.

Ursuline College of Arts Gold Medal: fourth year Home Economics.

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.
Unless otherwise indicated, the Scholarships and Prizes available in University College are provided by the Board of Governors of the University.

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.)
(e and f) General Science: one in each of the second and third years of the General Science Course.

Scholarships: Sixty dollars each for best standing in the following:

SECOND YEAR HONORS COURSES:

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

THIRD YEAR HONORS COURSES:

Business and Secretarial Science;
Chemistry and Physics;
Classics;
English and French;
English and Latin;
French and German;
French and Latin;
French and Spanish;
General Science;
Philosophy and Psychology;
Psychology and Philosophy.

The Hon. Edward Blake Scholarship, No. 1: Sixty dollars; for Honors Economic and Political Science, Second Year. Offered in 1947-8.

The Hon. Edward Blake Scholarship, No. 2: Sixty dollars; for Honors Economic and Political Science, Third Year. Offered in 1947-8.

(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 Andrew Grant Scholarship, No. 1: Sixty dollars; for Honors Economic and Political Science, Second Year. Offered in 1948-9.

The Andrew Grant Scholarship, No. 2: Sixty dollars; for Honors Economic and Political Science, Third Year. Offered in 1948-9.

The Andrew Grant Scholarship, No. 3: Sixty dollars; for Honors Social Science, Second Year.

The Andrew Grant Scholarship, No. 4: Sixty dollars; for Honors Social Science, Third Year.

(These Scholarships were bequeathed to the University by Mrs. Grant as a memorial to her husband, Mr. Andrew Grant, St. Thomas.)

The John Gordon McIntosh Scholarship, No. 1: Sixty dollars; for Honors Mathematics and Physics, Second Year.

The John Gordon McIntosh Scholarship, No. 2: Sixty dollars; for Honors 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 Honors Business Administration, Second Year.

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

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

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

The Wilhelmina and J. Gordon McIntosh Scholarships in Public Speaking: Two scholarships of $35 each, two of $25 each and two of $15 each are open to all students in the constituent faculties of the University; one thirty-five dollar, one twenty-five dollar and one fifteen dollar scholarship will be awarded to men and the other three of the same value to women. Not offered in 1948-9.

The Wilhelmina and J. Gordon McIntosh Junior Fellowship, No. 1: One hundred and eighty dollars; Honors Business Administration, Fourth Year.

The Wilhelmina and J. Gordon McIntosh Junior Fellowship, No. 2: One hundred and eighty dollars; Honors Geology and Geography, Fourth Year.

(These Scholarships and Fellowships 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 Honors Biology, Second Year.

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

The Albert O. Jeffery Scholarship, No. 3: Sixty dollars: for Honors 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.)

The A. N. Knowles Scholarship: Sixty dollars, for Honors Chemistry, Second Year.

The J. C. Knowles Scholarship: Sixty dollars: for Honors Chemistry, Third Year.

(The above Scholarships are donated to the University as memorials by Mrs. A. N. Knowles, London.)

The William Wyatt Scholarship, No. 1: Sixty dollars: for Honors English Language and Literature, Second Year.

The William Wyatt Scholarship, No. 2: Sixty dollars: for Honors History, Second Year.

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

The Myrtle Rowntree Memorial Scholarship: Sixty dollars: for Honors English Language and Literature, Third Year.

(This Scholarship was established as a memorial to the late Myrtle Martindale Rowntree,a 1919 graduate in Honor English and History, by her brothers and sisters.)

Bruce County Scholarships: Two, one hundred dollars each, one for the man, one for the woman, from Bruce County who stands highest in any year of any regular course in the University. These scholarships can be held only once by any student: an award won a second time reverts to the student coming next in order of merit.

(These Scholarships were voted by the County Council of Bruce County in June, 1945).

Elgin County Scholarships: Two, one hundred dollars each, one for the man, one for the woman, from Elgin County (excluding the City of St. Thomas) who stands highest in any year of any regular course in the University.

(These Scholarships were voted by the County Council of Bruce County in 1947.)

Huron County Scholarships: Two, one hundred dollars each, one for the man, one for the woman, from Huron County who stands highest in any year of any regular course in the University.

(These Scholarships were voted by the County Council of Huron County, in June, 1944, for annual competition among Huron County students in attendance at the University of Westtern Ontario.)

Huron County Bursaries: Several tuition bursaries up to $100 a year are available for students who have been residents of Huron County for the past three years. These Bursaries are tenable only in the constituent colleges of this University, and are renewable on the same terms as the Dominion Provincial Student Aid Bursaries. Application forms and further details may be obtained from the Registrar's Office before October 1st.

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 Honors 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.)

I. O. D. E. William E. Saunders Chapter Bursary: Sixty dollars; awarded in the autumn to the student registered in the Botany option who stood highest in Third Year Honors Biology during the preceding session. The bursary may be awarded, under special circumstances, to a student registered in a course other than Botany.

(This Bursary is given annually by the William E. Saunders Chapter, Imperial Order of the Daughters of the Empire, London.)

I. O. D. E. London Air Force Chapter Scholarship: Sixty dollars; awarded annually to the student with the highest standing in the Radio Physics Option of the Third Year of the Honors course in Mathematics and Physics.

Kappa Tau Sigma Fraternity Awards: Two prizes of twenty-five dollars each, for the Second and Third Year student in any Honors course in Mathematics or Science whom the Scholarship Committee may select. High academic standing and participation in recognized campus activities are to be the basis of selection. The same student may not receive this award twice.

Khaki University and Y. M. C. A. Scholarship: Sixty dollars; for the highest average obtained by an ex-service man or woman, or the son or daughter of an ex-service man or woman, in any year of any course in University College of Arts and Science.

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 of these Scholarships were the gift of the Women's Liberal Association.)

The Joseph Henry Marshall Scholarship: Sixty dollars; for Honors History, Third Year. Open only to Canadian-born students. To be awarded in 1947-48, then in 1949-50.

(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.)

Ursuline College Home Economics Scholarship, No. 1: Twenty-five dollars; for Third Year Clothing (Home Economics 30x).

Ursuline College Home Economics Scholarship, No. 2: Twenty-five dollars; for Third Year Foods (Home Economics 32x).

Wilhelmina and J. Gordon McIntosh Prizes in Public Speaking: one prize of $25, and one of $15, and eleven of $10 each, are open to students registered in English 19, under terms specified by the Scholarship Committee. Not offered in 1948-9.

W. W. Tamblyn Prize: Ten dollars; Second Year English Composition (English 21). Given in alternate years, in 1947-48, then in 1949-50.

(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).

SUMMER SCHOOL FOR FRENCH AND ENGLISH, TROIS-PISTOLES, QUEBEC

Applications for the undermentioned scholarships will be received by the Registrar up to April 30th. The winners will be selected by a special committee.

Robert Simpson Company Limited Scholarship: For French; One hundred and fifty dollars.

Imperial Oil Company Limited Scholarship: For French; One hundred and fifty dollars.

Board of Governors' Scholarship: For French; Sixty dollars.

W. Sherwood Fox Scholarship: For French; Fifty dollars.

Canadian Breweries Scholarship: Fifty dollars.

Lachapelle Scholarship: Fifty dollars.

Director's Prizes: Two of five dollars each for the best speeches in English by members of the English classes.

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 an independent committee at Trois-Pistoles.

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

SUMMER SCHOOL PRIZES, UNIVERSITY COLLEGE

The Helen M. Benson Prize: Fifteen dollars; Astronomy (Mathematics 29).

(Endowed by T. C. Benson.)

The Thomas Albert Mara Prize: Fifteen dollars; Canadian History (History 31).

(Donated by W. L. Mara.)

The Clara Long Mara Prize: Ten dollars; Art (Art 30T).

(Conated by W. L. Mara.)

The H. R. Kingston Prize: Ten dollars; English Literature (English 30a).

(Donated by Dr. H. R. Kingston.)

II. Graduate Fellowships and Scholarships

THE J. WILLIAM HORSEY FELLOWSHIP

Value $1,500 a year for two years, and a third year at the discretion of the Committee of Selection; for research in Food Distribution; open to graduates in Business Administration of the University of Western Ontario or of any Commerce course of equivalent standard in the Dominion of Canada.

Applications should be submitted to the Registrar of the University, not later than May 1st of the year of award.

Application forms and information are obtainable from the Registrar or from the head of the Department of Business Administration of the University of Western Ontario.

(This Fellowship is donated by Dominion Stores Ltd. by and through the president, Mr. J. W. Horsey.)

WALTER P. ZELLER FELLOWSHIP

Open to graduates in Commerce or Business Administration of Canadian Universities who plan to specialize in Retailing at the University of Western Ontario. Value $1,000 a year. The award may be renewed for a second year.

Applications should be submitted not later than May 1st, to the Registrar.

C.O.T.C. MEMORIAL FELLOWSHIP

In Military Economics, Military Geography or Military History. Value $800. Applications to be submitted to the Registrar by September 1st.

(This Fellowship is donated by the University of Western Ontario C.O.T.C. Contingent.)

THE RHODES SCHOLARSHIPS

A Rhodes Scholarship is tenable at the University of Oxford and may be held for three years. For full information about the qualifications, consult the Registrar's Office. Applications must be filed before November 10th each year.

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 $1,500. For applications and terms of qualification consult the Registrar's Office.

CANADIAN FEDERATION OF UNIVERSITY WOMEN SCHOLARSHIPS

The Canadian Federation of University Women offer the following sholarships available for women:

I. Senior: Value $1,250.

II. Junior: Value $850.

III. Professional: Value $700, available for study in a professional school.

Applications and recommendations must be received not later than February 1st. Obtain detailed information from the Registrar's Office.

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.

DOMINION-PROVINCIAL STUDENT-AID BURSARIES

Applications and terms of qualification may be obtained from secondary school principals, the Registrar of the Department of Education of Ontario, or the University Registrar.

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. Applications must be submitted by March 15th.

ONTARIO HOCKEY ASSOCIATION SCHOLARSHIP

There will be no award made in 1948.

THE ONTARIO KNIGHTS OF COLUMBUS SCHOLARSHIPS

Tenable only in Assumption or St. Peter's or Ursuline College; for application forms apply to the Secretary, Mr. J. W. C. Tierney, Arnprior, Ontario.

ADMISSION SCHOLARSHIPS: UNIVERSITY COLLEGE

1. The following scholarships will be awarded on the results of the Grade XIII examinations of 1948.

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 University College.

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, two of German, Greek, Latin, Spanish;
(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 eight 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. Scholarship 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.

*To qualify for one of these Scholarships a candidate must obtain an average of 75 per cent. in six papers; no Scholarship in Section IV is obtainable by reversion.

For information about the admission scholarships available in the affiliated colleges, write the Registrars of those colleges.
See pages 106, 107, 113, 116, 119, 121.

Training in the Armed Forces

Students (men) may offer themselves for one of the two Armed Services, the University Naval Training Divisions and the Canadian Officers' Training Corps. Suitable candidates in each Service may be selected and trained for commissioned rank. The year's work may count as an autumn and winter option for Physical Education.

UNIVERSITY NAVAL TRAINING DIVISIONS

The Royal Canadian Navy hopes to secure the majority of its officers with high technical qualifications from the Universities. Undergraduates with or without previous experience may receive Naval Training through the University Naval Training Divisions (U.N.T.D.). After the successful completion of their courses they may obtain commissions in the R.C.N. or the R.C.N.(R).

The University of Western Ontario has been pleased to co-operate with the Naval Headquarters and allows credit for the intramural training of the U.N.T.D. in lieu of Physical Training. In addition each member of the U.N.T.D. is entitled to ten to sixteen days pay of the rate he holds.

The course includes sixty (60) hours training during the academic year. Two weeks compulsory service afloat is required each year, but ratings may volunteer for additional service. Before qualifying as an officer each rating must serve one complete summer afloat. At any time after the first year a member is entitled to appear before a Preliminary Selection Board which decides as to his qualifications as an Officer Candidate. When so approved the member of the U.N.T.D. is entitled to pay at the rate of One Hundred and Thirty-Five Dollars ($135.00) a month.

The R.C.N. is hoping to build up a body of well-trained personnel who will be available for special services in cases of emergency. The U.N.T.D. provides the opportunity for obtaining valuable training and instruction useful in peace or war.

Information and application forms are available in the office of the Commanding Officer, Commander Nelson C. Hart.

CANADIAN OFFICERS' TRAINING CORPS

1. Canadian Officers' Training Corps offers undergraduates a unique opportunity to qualify themselves for commissions in the Canadian Army, either Active or Reserve, through a training program especially designed to meet their requirements.
2. Students are eligible who are:
   (a) British subjects between the ages of 18 and 22; these requirements may be varied to allow a higher age of entry for men who were on active service during the war, 1939-45.
   (b) Of a physical standard suitable for the Canadian Army Active Force.
   (c) Following a course of study leading to a recognized degree.

3. Training provided falls into two categories:
   (a) Theoretical training: a 40-hour course of lectures on military subjects given during the academic year.
   (b) Practical training: a series of attachments during the summer months to Corps Schools of the Canadian Army, Active Force.
4. Students accepted for C.O.T.C. Training are granted the rank of "Temporary Second Lieutenant" and hold that rank throughout the military training program. They are eligible for the pay of that rank for every full day of military duty ($135.00 per month). Students will receive this pay for every day spent in summer camp up to a maximum of four months, and also for attendance at lectures during the second and third training years. For this purpose, attendance at 4 hours of lectures is counted as one day's duty.

C.O.T.C. officers at the various colleges are as follows:

University College—Major H. H. A. Parker, O.B.E., Resident Staff Officer; Lt. Col. J. J. Talman; Major R. N. Shervill; Captain E. G. Jarmain.

Assumption—Major G. R. Horne.

Waterloo—Major A. E. Raymond.

Students who wish to apply for C.O.T.C. training should present themselves to any of these officers before Nov. 30, 1948.

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SUMMARY OF REGISTRATION IN FACULTY OF ARTS AND SCIENCE

1947-48

Year in Course	University College		Alma College	Assumption College	Huron College	Ursuline College	Waterloo College	St. Peter's College	Music Teachers College	Totals
Full Time:										
First		70*	3	269	13	24	19	3	7	408
Second		947	2	267	10	36	95	25	6	1,388
Third		567	....	74	5	11	34	20	....	711
Fourth		355	....	125	9	25	34	15	....	563
Graduate		46	....	7	....	1	....	1	....	55
										3,125
Part Time:										
Graduate		14	....	3	....	1	....	....	....	18
Undergraduate		23	....	92	....	2	33	....	....	150
										3,293
Correspondence	269	.....	....	....	....	....	....	....	....	269
Summer School	508	.....	....	....	....	....	....	....	....	508
Extension	513	.....	....	....	....	....	....	....	....	513
TOTALS	1,290	2,022	5	837	37	100	215	64	13	4,583
Duplicates										396
Faculty of Arts Totals: Intramural										3,293
Summer School, Correspondence, Extension (less Duplicates)										894
										4,187
Faculty of Medicine										282
School of Nursing										49
University Total										4,518

*Admitted on Grade XII standing: 70.

REGISTRATION IN FACULTY OF ARTS AND SCIENCE

1937-38 - 1947-48

Year	University College	Alma College	Assumption College	Huron College	Ursuline College	Waterloo College	St. Peter's College	Music Teachers College	Duplicates	Net Total
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
1943-44	1,597	13	305	25	71	67	65	....	215	1,928
1944-45	1,699	7	306	23	94	71	59	....	296	1,963
1945-46	2,602	10	465	32	105	156	60	9	369	3,070
1946-47	3,306	9	688	33	89	170	62	11	576	3,792
1947-48	3,312	5	837	37	100	215	64	13	396	4,187