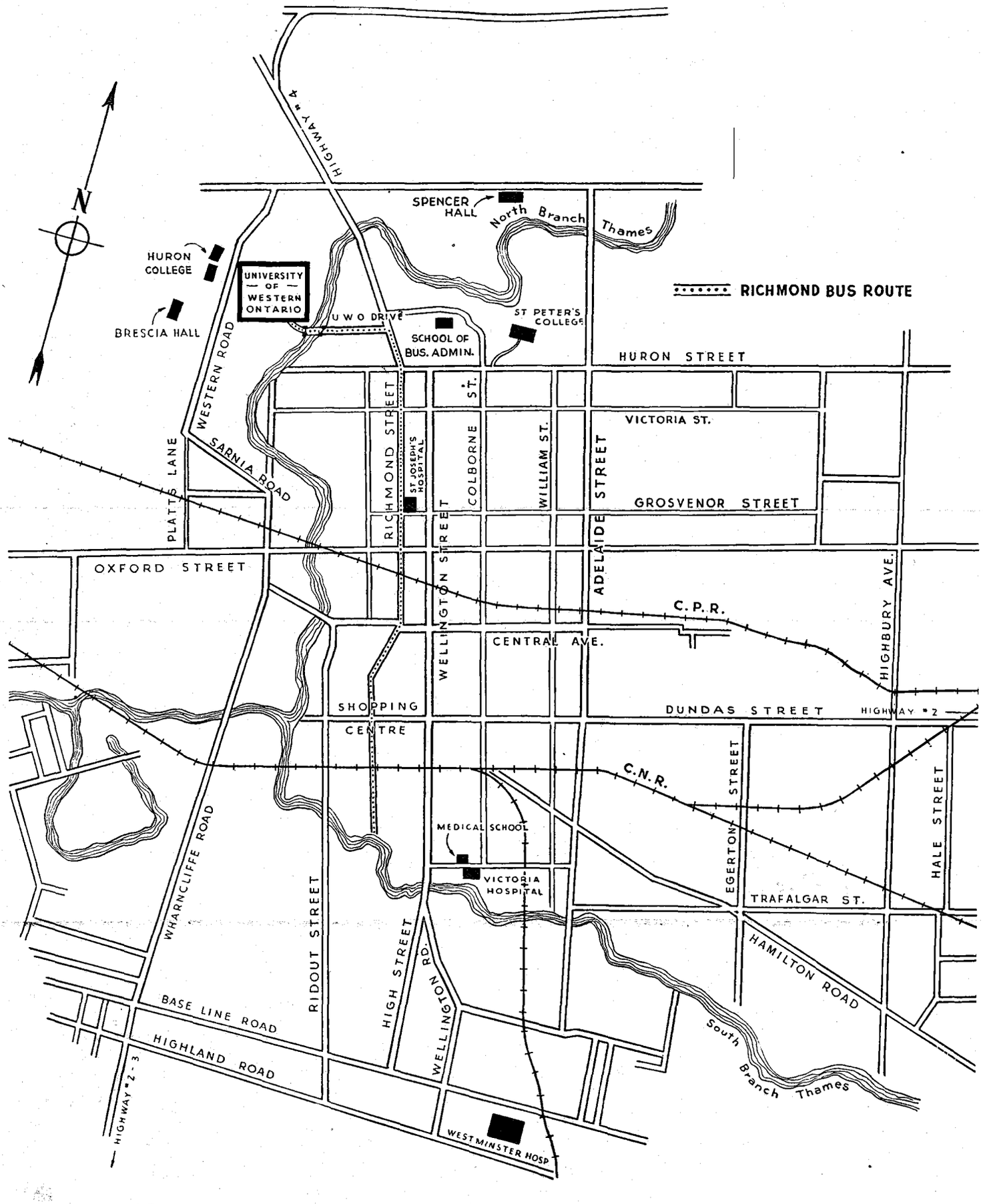
UNIVERSITY OF WESTERN ONTARIO

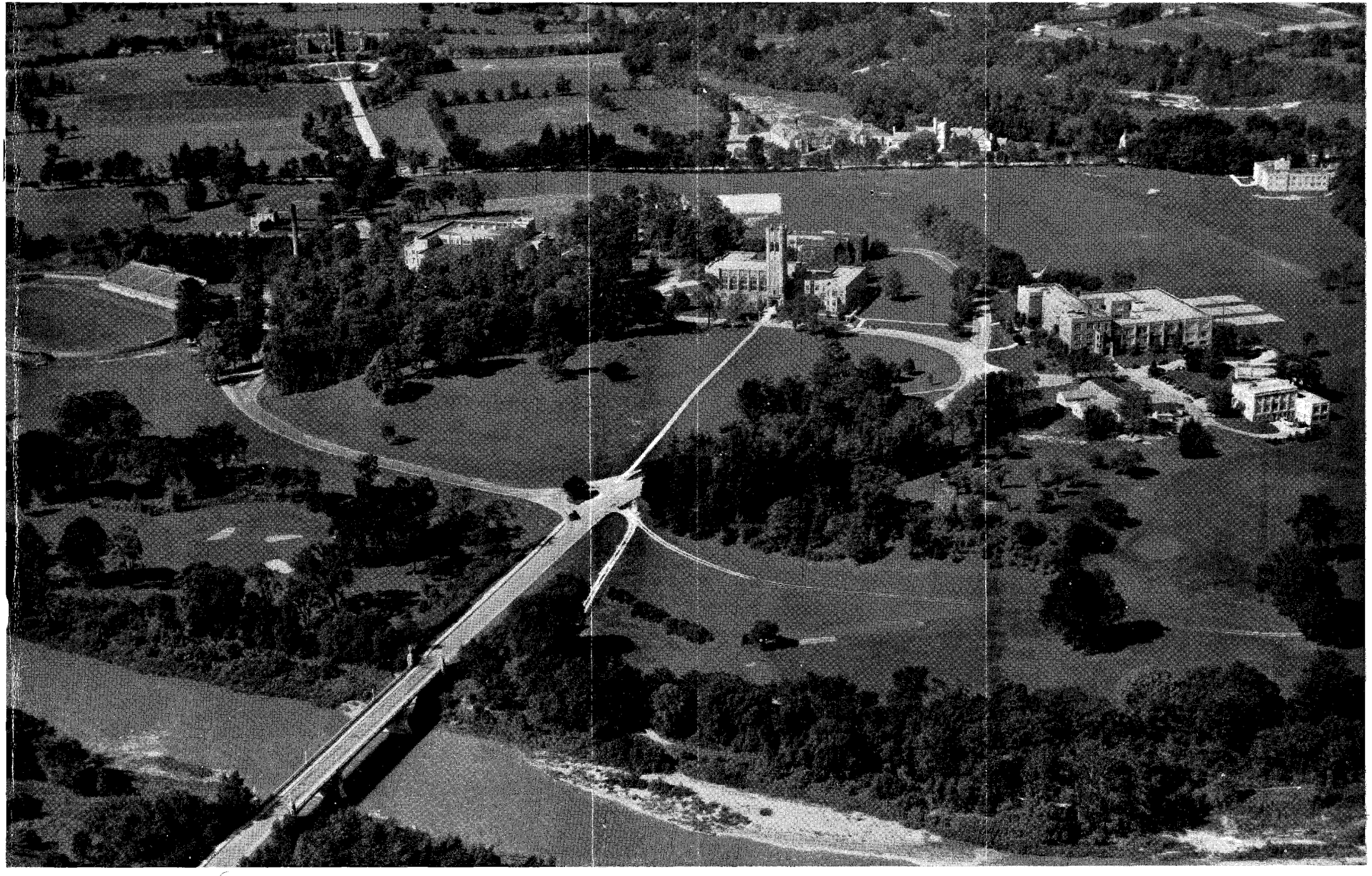
LONDON - CANADA

FACULTY of ARTS and SCIENCE

UNIVERSITY COLLEGE
HURON COLLEGE
URSULINE COLLEGE
ST. PETER'S COLLEGE
WATERLOO COLLEGE
ALMA COLLEGE
MUSIC TEACHERS' COLLEGE

Announcement 1954-55


N
HIGHWAY # 4
SPENCER HALL
North Branch
Thames
HURON COLLEGE
UNIVERSITY — OF — WESTERN ONTARIO
BRESCIA HALL
U W O DRIVE
SCHOOL OF BUS. ADMIN.
ST PETER'S COLLEGE
RICHMOND BUS ROUTE
HURON STREET
WESTERN ROAD
PLATTS LANE
SARNIA ROAD
RICHMOND STREET
ST JOSEPH'S HOSPITAL
COLBORNE ST.
WILLIAM ST.
VICTORIA ST.
ADELAIDE STREET
GROSVENOR STREET
OXFORD STREET
WELLINGTON STREET
C.P.R.
HIGHBURY AVE.
CENTRAL AVE.
SHOPPING CENTRE
DUNDAS STREET
HIGHWAY # 2
C.N.R.
EGERTON STREET
HALE STREET
MEDICAL SCHOOL
VICTORIA HOSPITAL
TRAFALGAR ST.
WHARNCLIFFE ROAD
RIDOUT STREET
HIGH STREET
WELLINGTON RD.
HAMILTON ROAD
BASE LINE ROAD
HIGHLAND ROAD
South Branch Thames
HIGHWAY # 2 - 3
WESTMINSTER HOSP



Brescia Hall (Ursuline College Residence)
Cronyn Memorial Observatory
The J. W. Little Memorial Stadium
School of Business Administration
Thames Hall
Huron College Buildings
Lawson Memorial Library
Arts and Administration Bldg. including the School of Nursing
McIntosh Memorial Bldg.
Natural Science Bldg.
Fingal Hall (Cafeteria)
Dominion Science Service Laboratory
Botany Bldg. and Greenhouses
The J. B. Collip Medical Research Bldg.

THE CAMPUS - UNIVERSITY OF WESTERN ONTARIO

UNIVERSITY OF WESTERN ONTARIO

LONDON - CANADA

FACULTY of ARTS and SCIENCE

UNIVERSITY COLLEGE
HURON COLLEGE
URSULINE COLLEGE
ST. PETER'S COLLEGE
WATERLOO COLLEGE
ALMA COLLEGE
MUSIC TEACHERS' COLLEGE

Announcement 1954-55

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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1954 JANUARY 1954						
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CALENDAR OF THE FACULTY OF ARTS AND SCIENCE
1954

July 5, Monday.....Summer Session begins.

August 5 and 6, Thursday and Friday.....Supplemental examinations.

August 14, Saturday.....Summer Session examinations end.

September 1, Wednesday.....Last day for receiving applications and certificates for the Winter Session.

September 10, Friday.....Aptitude tests for prospective students who do not meet the normal entrance requirements.

September 20, Monday.....Conference of the colleges of Arts and Science.

September 21, Tuesday.....Registration of new students from Brant, Elgin,

8.30 to 12.30..... Essex, Lambton and Middlesex Counties.

2.30 to 5.00.....Physical examinations.

September 22, Wednesday.....

8.30 to 12.30.....Registration of new students from other centres.

2.30 to 5.00.....Physical examinations.

8.00 p.m......Official welcome and Faculty reception.

September 23, Thursday.....Registration of second, third and fourth year students from Brant, Elgin, Essex, Lambton and Middlesex Counties.

Prescribed meetings for new students.

September 24, Friday.....Registration of second, third and fourth year students from other centres.

Prescribed aptitude tests for new students who have not taken them on September 10th.

September 27, Monday.....Lectures begin for all students, graduate and undergraduate.

Late medical examination charge of two dollars begins.

October 1, Friday.....Registration of graduate students.

Last day of application for degrees and diplomas at Autumn Convocation.

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

October 11, Monday.....Thanksgiving Day; classes cancelled.

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

November 11, Thursday.....Remembrance Day ceremony.

December 18, Saturday at noon.....Christmas vacation begins.

1955

January 3, Monday.....Lectures resume

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

March 7, Monday.....Founders' Day ceremonies.

April 8, Friday.....Good Friday; classes cancelled.

April 16, Saturday.....Second term classes close.

April 23, Saturday.....Examinations begin.

April 30, Saturday.....Last day of application for degrees and diplomas at the Spring Convocation.

May 14, Saturday.....Examinations end.

June 4, Saturday.....Spring Convocation.

The Board of Governors

Ex officio Members:

THE CHANCELLOR, THE PRESIDENT, THE VICE-PRESIDENT, HIS WORSHIP THE MAYOR OF LONDON, THE WARDEN OF THE COUNTY OF MIDDLESEX.

Appointed Members:

By The Lieutenant-Governor-in-Council: MR. W. L. DUFFIELD, MR. FRANK FORRISTAL, K.S.G., MR. H. W. STRUDLEY, LIEUT.-COL. D. B. WELDON, M.C.

By the London City Council: LIEUT.-COL. GORDON INGRAM, MR. A. E. SILVERWOOD, LIEUT.-COL. J. E. SMALLMAN, LIEUT.-COL. J. GORDON THOMPSON.

By the Board of Governors: MR. J. G. HAY, MR. LOUIS L. LANG, DR. A. T. LITTLE, MR. C. F. STEVENS.

By the Alumni Association: MR. CLAUDE MCCALLUM, DR. J. T. BOWMAN.

Officers of the Board

DR. 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, the Librarian.

Elected Members:

Four representatives of the Principals of the Secondary Schools in Western Ontario.

Three representatives of the London City Council.

Two representatives of the teaching-members of each of the following, providing that in the case of a *Faculty* of the University one representative shall be the Dean: the Faculty of Arts and Science, the Faculty of Medicine, the Faculty of Graduate Studies, the School of Nursing, the School of Business Administration, Huron College, Music Teachers' College, St. Peter's College, University College, Ursuline College, Waterloo College.

Two representatives of the Board of Governors.

One representative of each of: Alma College; the graduates of each of the Faculties and Colleges and Schools in the University; 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 London Board of Education, the London Separate School Board.

Officers of the Senate

THE PRESIDENT AND VICE-CHANCELLOR, *Chairman*
THE REGISTRAR, *Secretary*

Executive Committee: The Chancellor, the Vice-Chancellor, the President, the Vice-President, the Secretary, the Head (or his deputy) of the Faculty of Arts and Science, the Faculty of Medicine, the Faculty of Graduate Studies, the School of Nursing, the School of Business Administration, Huron College, Music Teachers' College, St. Peter's College, University College, Ursuline College, Waterloo College.

UNIVERSITY OFFICERS

(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, LL.D., *ibid.* 1947

President and Vice-Chancellor

GEORGE EDWARD HALL,
B.S.A., Toronto, M.S.A., *ibid.*, M.D., *ibid.*, Ph.D., *ibid.*, D. ès Sc., Laval; F.R.S.C. 1944

Vice-President and Dean of Graduate Studies

RONALD ALEXANDER ALLEN,
B.A., Toronto, M.A., *ibid.*, Ph.D., Chicago. 1923

Comptroller

ROSS BAXTER WILLIS,
B.A., M.A. 1939

Librarian

JAMES JOHN TALMAN.
B.A., M.A., Ph.D., Toronto, F.R.S.C. 1939

Physician

HELEN MARGARET ROSSITER,
M.B.Ch.B., Edinburgh, D.A., London. 1948

Registrar

HELEN M. B. ALLISON,
B.A.. M.A., Minnesota. 1924

Dean of Women

LEOLA ELLEN NEAL,
B.A., M.A., Ph.D., Toronto. 1933

Dean of Men

THOMAS LESLIE HOSKIN,
B.A., M.A., Northwestern. 1945

Director of Extension and Summer School Department

STAR FLOYD MAINE,
B.A., B.D., Victoria, M.A., Chicago, Ph.D., *ibid.* 1926

Assistant Librarians

LILLIAN REA BENSON,
B.A. 1934

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

JOHN R. W. GWYNNE-TIMOTHY,
B.A., Toronto, M.A., *ibid.*, D. Phil., Oxford. 1953

Assistant Registrar

MARGARET P. MAY,
B.A. 1945

Curator of the Museum of Indian Archaeology
MR. WILFRID JURY

Honorary Curator of the Jeffery Stamp Collection
DR. HOWARD CROCKER

Honorary Curator of Art
MR. B. M. GREENE

Honorary Curator of Ceramics
MR. EMERSON NICHOLS

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

FACULTY OF ARTS AND SCIENCE

Dean
FRANK STILING, M.A., Ph.D.

Faculty Council
Chairman, THE PRESIDENT
Secretary, THE REGISTRAR

MRS. FLORA SIFTON,	*Faculty of Alma College*
PRINCIPAL W. R. COLEMAN,	*Faculty of Huron College*
PRINCIPAL HARVEY ROBB,	*Faculty of Music Teachers' College*
THE RIGHT REVEREND A. P. MAHONEY,	*Faculty of St. Peter's College*
THE REVEREND T. J. MCCARTHY,	*Faculty of St. Peter's College*
PRINCIPAL F. STILING,	*Faculty of University College*
MOTHER M. ST. JAMES,	*Faculty of Ursuline College*
MOTHER M. IGNATIUS LOYOLA,	*Faculty of Ursuline College*
PRESIDENT J. G. HAGEY,	*Faculty of Waterloo College*
DEAN L. H. SCHAUS,	*Faculty of Waterloo College*

UNIVERSITY COLLEGE
(*London, Ontario*)

Principal of University College
FRANK STILING, M.A., Ph.D.

Secretary of the Faculty
PROFESSOR DAVID IVOR, M.A., Ph.D.

Representatives on the University Senate
PROFESSORS N. C. HART, M.A., and R. B. LIDDY, M.A., B.D., Ph.D., LL.D.

Representatives on the Athletic Directorate
PROFESSORS D. A. MCLARTY, Ph.D., J. W. BURNS, M.Sc.
MARY GILLESPIE, M.A., E. F. ZEIGLER, M.A., Ph.D.

GENERAL INFORMATION

ORGANIZATION OF THE UNIVERSITY

The University of Western Ontario is composed of four units: the College of Arts and Science (University College), the Medical School, the School of Nursing and the School of Business Administration; affiliated with the University are three colleges teaching four-year Arts courses: viz., 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 is Music Teachers College, which offers a four-year course in Arts and Music, and which supervises the work of 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. In 1923, by Act of the Provincial Legislature, its name was charged from "Western University" to "The University of Western Ontario."

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 it became the Faculty of Medicine, under the direct control of the same Board of Governors as the rest of the University. 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, buildings were erected, and the Faculty of Arts was moved to the present location in 1924. In 1943 it was re-named the Faculty of Arts and Science.

The Institute of Public Health was opened in 1912 in a building erected and equipped by the Government of the Province of Ontario and given to the University. In 1917 it became the Faculty of Public Health, the first independent Faculty of Public Health of any University in the British Empire; in 1946 one section of it became a Provincial Laboratory and the other section the University School of Nursing, which moved to the north campus in 1951.

In 1947 a separate Faculty of Graduate Studies was first created, although masters' degrees in Arts, Science, Medicine and Business Administration had been conferred for many years.

The School of Business Administration was not formally founded until 1950, although Business Administration as a major course had been offered in the Faculty of Arts from 1920 to 1950.

DEGREES

By its charter the University of Western Ontario may confer degrees in Arts, Medicine, Science, Dentistry, 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; Doctor of Music; Doctor of Civil Law.
2. Degrees by examination: Bachelor of Arts (B.A.) Bachelor of Science (B.Sc.); Bachelor of Science in Nursing (B.Sc.N.); *Bachelor of Divinity (B.D.); Master of Arts (M.A.); Master of Laws (LL.M.); Master of Science (M.Sc.); Master of Clinical Science (M.Cl.Sc.); Master of Business Administration (M.B.A.); 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 Journalism; Diploma in Home Economics; 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 good books, the library is basic in a university. There are two libraries at the University of Western Ontario, the general library and the medical library, as well as two special reading rooms in the Science Building and the School of Business Administration, respectively. All divisions use the Library of Congress system of classification.

The main collection of books, amounting to 160,000 volumes, is housed in the Lawson Memorial Library building, erected in 1934. The Medical School library consists of approximately 40,000 volumes. Thus the combined libraries now contain 200,000 volumes.

Although this is a fairly large collection, and compares favorably in point of numbers with other university libraries in Canada, the number of volumes is not the best criterion of a library's value. The quality of the books on the shelves, their accessibility and condition, the policy of selection, the number of current literary and scientific journals, and the reading room accommodation are the real standards by which to judge a library. In most of these particulars the University libraries rank high. Few volumes are on the shelves without a good reason. Book purchases are subject to a rigorous selection policy which takes into account both immediate and prospective value. In the general library there is space for nearly three hundred students, and over 300,000 volumes. Third year Honors and all fourth year students may secure permits to enter the stacks on the recommendation of their professors.

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

It is impossible for a university library to make exhaustive collections of all kinds of printed material. In some respects, however, the libraries of the University of Western Ontario are outstanding. The general 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. The Regional Collection of local history contains much material valuable for graduate work in history and economics. There are also important newspaper files, and a large number 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 by practising physicians under the supervision of the University Health Service is required of students, men and women, of all years. The medical examination will be free if taken on scheduled registration days, but a late fee of Two Dollars will be charged those students who do not take the examination at that time. An X-ray examination prescribed for all undergraduate and graduate students will be arranged during January and is free if taken during the period prescribed.

(ii) Student Health Insurance

The scheme of health insurance was designed for the benefit of students. Its first purpose is to protect any student whose academic year may be jeopardized financially by a serious accident or an acute illness requiring hospitalization. As a student body cannot make a legal contract, the University has made the contract with the Assurance Company. Copies of this contract are given to students at registration and may be obtained from the Health Service Office. Each student should study this contract carefully, as the responsibility for making claims for illness or injury rests entirely on him. All inquiries about insurance and the proper forms to be used for insurance claims should be made in the Health Service Office.

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

(iii) University Health Service

The purpose of the University Health Service is to supplement the Student Health Insurance. It is a part-time service which operates during the afternoon and consists of a clinic where students may consult the University Physician for the diagnosis or treatment of sickness, or for advice. A V.O.N. nurse is present who carries out treatment and does dressings. The Health Service secretary deals with inquiries and assists students with insurance claims.

A student who is taken ill out of clinic hours should call the family physician of those with whom he is residing, or the University Physician for information and/or advice.

UNIVERSITY CONCERT SERIES

The cultural life of the Univerity is enhanced by the provision each year of a series of Sunday Nine O'Clock concerts by artists of high distinc-

tion in their several departments of music. The project is subject to the jurisdiction of the University Students' Commission. Each full-time student in the four constituent divisions (Arts and Science, Medicine, Nursing and Business Administration) is entitled to admission to all concerts in this series.

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.

A. In the affiliated College and in the Home Economics Course in University College a candidate may be admitted on presentation of a Secondary School Graduation Diploma (or the equivalent), showing satisfactory completion of the following Grade XII subjects:

(1) English and History.
(2) Latin or Mathematics.
(3) One of: Latin, French, German, Spanish or Italian, Greek.
(4) One of: Mathematics, Science or Agriculture, *Music, Geography, option from (3) not previously used.

No option may be counted more than once.

B. A candidate presenting Grade XIII certificates or the equivalent in at least four subjects (not papers), together with the full requirements of A, above, may expect to complete one of the General Courses in three years, or an Honors Course in four years.

The Grade XIII subjects are:

English (Literature and Composition), Mathematics (Algebra, Geometry, Trigonometry and Statics), 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 attempt one or more Grade XIII examinations 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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*For the Music option, the following Certificates of the Western Ontario Conservatory of Music will be accepted.
Grade VII, Practical, and Grade II, Theory; or Grade III, Theory.
**For Music, the following Certificates of the Western Ontario Conservatory of Music will be accepted: Grade VIII, Practical, and Grade II, Theory; or Grade IV, 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 local examinations formerly conducted by the English and Scottish universities for the School Certificate and the Higher School Certificate may be accepted instead of Grade XIII (Senior Matriculation) standing in some subjects, providing those subjects are passed "with Credit" or higher standing.

The General Certificate of Education of England and Wales is accepted in lieu of Grade XIII work, if it shows standing in either five or six subjects, with at least two of these subjects at the Advanced level. English Literature, a language other than English, and either Mathematics or an approved Science must be included.

Admission With Advanced Standing

From Universities

All applications for advanced standing must be accompanied by official certificates from the institution where work has been done, and be presented to the Registrar by August 1st if possible. 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 candidacy 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.

Registration

Junior Groups

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.

Students presenting Grade XII, or Grade XII and Grade XIII, certificates will register in one of the Junior Groups or one of the special courses

*In University College, all adult special applicants, 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.

(page 22), subject to the admission requirements in each college for those courses.

Senior Group or Honors

Students who have completed a Junior Group may register either in one of the Senior Groups or in an Honors Course for which they have specific prerequisites. (See pages 28-42.)

Medical Examination

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

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

Length of Courses

In University College

The General Course with Home Economics Options requires four years for those entering on Grade XII standing, but can be completed in three years of satisfactory work by a student who presents certificates obtained at the examinations of the Department of Education of Ontario in four Grade XIII subjects (usually eight papers) corresponding to subjects prescribed in the first year of that course. The other General Courses (with Arts or Science or Secretarial Science or Teachers' Options) require three years from Grade XIII in four subjects. In the Nursing Course Grade XIII in four subjects precedes a five year course. The Honors Courses, except as mentioned below, are four-year courses from Grade XIII standing in four subjects.

In the Affiliated Colleges

Grade XII standing is the entrance requirement (p. 12) and the General Courses and the Honors Courses in Philosophy are four years in length; other Honors Courses are five years. A satisfactory year's work in four Grade XIII subjects corresponding to the subjects prescribed in the first year of any course will decrease by one year the length of that course in any college.

Attendance at Lectures

Freshmen and sophomore students are required to attend eighty per cent. of their lecture and laboratory classes.

Any student who, **in the opinion of his instructors,** is absenting himself too frequently from class or laboratory periods in a course will be reported to his Dean and, on recommendation of the Department concerned and with the permission of the Dean, after due warning has been given by the Dean, shall be debarred from taking the regular examinations in that course.

A candidate for a degree must attend intramural classes of this University for two academic years, or for one academic year and two summer sessions, or for five summer sessions. This requirement is reduced to a minimum of one winter session or three summer sessions by attendance at Extension Lecture classes held by this University or by the transfer of credit from an approved college or University.

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 Advisory Committee.

Examinations and Grades

The regular examinations will be held in April and May.

General Course

Students in the General Courses will be ranked in order of merit in each course in six grades, A, B, C, D, E, F. The minimum for Grade A is 75 per cent. of the marks obtainable; for Grade B, 66 per cent.; for Grade C, 60 per cent.; for Grade D, the minimum passing grade, 50 per cent. A mark that falls in Grade E, 40 to 49 per cent., entitles the student to a supplemental, subject to the regulations governing supplementals (see page 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 Home Economics, the Secretarial, the Music, 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 in half the courses required in a Senior Group of the General Course, or in the third and fourth years of the other courses mentioned, including Grade C in half the courses of his senior year.

Honors Courses

Candidates in the Honors Courses will be ranked in four classes: Class I—75 per cent. or over; Class II—66 to 74 per cent.; Class III—60 to 65 per cent. An average of Class IV—50 to 59 per cent., in the Honors subjects of the fourth year, with no failure on any examination, will not entitle the candidate to an Honors degree (page 17).

Students in an Honors Course, who do not obtain at least second class standing in the major Honors subject of the second and third years, with an average of at least sixty per cent. in other subjects, are not permitted to continue in Honors.

Re-examinations

If a student writes more than one examination in a course, the last mark he obtains shall be the only one considered valid.

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 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. in a whole 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.

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 any course. (See first paragraph under ***Failures,*** page 16.) Students whose grade is F (less than 40 per cent.) in any course may not write a supplemental. They must repeat the course.

Students conditioned at the final examinations should attempt to remove their conditions at the supplemental examinations of the next August. If a condition is not removed the **whole course** must be repeated.

Supplemental examinations will not be allowed any student in more than the equivalent of two full courses.

No supplemental examination will be allowed in Honors subjects except those offered as options by General Course students.

Special Examinations

A special examination is any examination other than the regular examination in 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.) Whenever possible special examinations will be held during the first full week in September. No special examination will be set within three months of failure.

A student who fails to appear for a paper at the time set in the examination timetable will not be allowed to write on the examination paper thus missed, but will be required to write a special examination at a time determined by the Registrar after consultation with the department involved.

No General Course student may write special examinations on more than the equivalent of one full course 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.

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 examination 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 more than twice.

A student shall be required to pass in two-thirds of his approved registration **at the Spring examinations;** if he fails to do so, he shall repeat and complete successfully, **at the Spring examinations,** the entire work of his year (not necessarily the same course); a student who fails to satisfy this requirement shall withdraw from his course.

A student who is required to repeat his year's work may petition his Dean or Principal to be allowed to substitute a subject of equivalent weight, at the same year-level and available without clash of timetable, for a subject in which he has obtained sixty-six per cent. or better.

Subjects which depend directly upon the work of a preceding year may not be taken by a student who has failed in the prerequisites.

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 do additional assignments until his work satisfies his instructors.

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.

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

A student may take one course more than the number normally required for the academic year in which he registered. Permission to take any further course must be obtained from the Committee on Academic Standing. For extra courses taken by permission of this Committee, an extra tuition and laboratory fee will be charged at the usual rate for special students.

The name of the University may not be used in any publication without the permission of the Advisory Committee. 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 Advisory Committee.

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

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

Regulations Governing Teachers' Courses and Certificates

(i) General Course for Teachers

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 courses see page 26. It is completely available through the Extension and Summer School Department.

(ii) 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 prescribed for Type A qualifications (see section iii 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 three years which follow Grade XIII English.

A candidate shall extend his course over at least three years from Senior 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 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 5, Ontario.

(iii) High School Assistants' Certificates

I. Type B

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

II. Type A

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, Commercial Subjects, English, English and French, English and German, English and Latin, French and German or Spanish, Geography, History, Latin and French, Mathematics, Mathematics and Physics, Physical Education, Physics and Chemistry, Science.

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

The courses shall extend over at least five years from Grade XII or, as may be determined under the regulations of the University, over four years from Grade XIII standing in four subjects.

Candidates shall attend for at least two full academic years, the third and fourth.

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.

Regulations Governing the Extension and Summer School Department

A candidate for a degree must attend intramural classes of this University for two academic years, or for one academic year and

NOTE: Graduates in general courses who wish to obtain Type A standing should consult the Registrar.

two summer sessions, or for five summer sessions. This requirement is reduced to a minimum of one winter session or three summer sessions by attendance at Extension Lecture classes held by this University or by the transfer of credit from an approved college or University.

EXTENSION DEPARTMENT

The Extension Department offers three types of courses which count towards the Bachelor of Arts degree:

(1) **Lecture courses** in Southwestern Ontario conducted by members of the University Faculty. Attendance at these courses satisfies part of the residence requirements (see page 14).

(2) **Tutorial courses** in a few centres in Northern Ontario, planned and supervised by members of the University Faculty, but taught by local tutors who are college graduates. These courses use the correspondence method, in part, and do not satisfy the residence requirements.

(3) **Correspondence courses,** in some courses which do not include Science, Mathematics, Psychology, Business Administration, and the elementary work in languages.

Students in these classes write the regular examinations and their papers are marked by members of the University Faculty.

Three courses in one winter session shall be the maximum enrolment of a student in the Correspondence and Extension Department, unless he receives permission from the Academic Standing Committee of University College to increase that number.

For further information write to the Director of the Summer School and Extension Department or to the University Registrar.

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.

Complete information about the Summer School and Extension work is contained in the Handbook of the Summer School and Extension Department. This may be obtained 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.

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.

Annual Tuition and Prescribed Accessory Fees

For FULL-TIME intramural undergraduate students

(this annual sum includes registration, regular examination and graduation fees, laboratory and microscope charges, University Students' Commission, University Concert Series, Athletic Association, Thames Hall facilities and Students' Health Insurance and Health Service fees, for the following courses):

Business Administration (last two years)	$380.00
Science (General and Honors); Home Economics; Nursing; Physical, Health and Recreation Education	$350.00
All other courses	$310.00

(1) This sum is increased by $5.00 if payment is not made in one instalment.

(2) For DVA students these sums will be $365, $335 and $295, respectively, because Student Health Insurance and Health Services are not included.

For PART-TIME Students

Tuition—Intramural, Correspondence, *Extension, Summer School, each course, including examination	45.00
Half-course	22.50
Tuition—non-credit (non-refundable), each course	10.00
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
Presiding fee at an outside centre, each half-day	3.00
Graduate Record Examination (institutional plan)	3.00
Aptitude Test, at date other than September testing-period	3.00
Special examination, at date other than May or August, each paper	15.00

Late Registration

For intramural students only, including late physical examination	2.00

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. (for part-time students only)	10.00
Degree of B.D.	24.00

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 and incidental fees	$310.00 to $ 380.00
Board (32 weeks)	480.00 to 600.00
Books and supplies	60.00 to 80.00
	$850.00 to $1,060.00

*Payable in full during the first week in November; $1 extra is charged for each course if fees are divided into two instalments.

EXPLANATION OF COURSE-NUMBERS

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

First year general courses are numbered between 10 and 19; they are, in difficulty and weight, equal to a Secondary School Grade XIII (Ontario) course in the same subject.

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

Third year general courses are numbered beween 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.

In the General Course, 20 to 29 indicate introductory courses at the college level, called Junior courses; 30 to 49 indicate Senior courses.

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 half course is one which meets less than two hours a week throughout the academic year, or less than four hours a week in one term.

REQUIREMENTS FOR B.A. AND B.Sc. DEGREES

UNIVERSITY COLLEGE

All students, on entering the Faculty of Arts and Science, will register in one of the following courses. In the affiliated colleges and in Home Economics 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 (see p. 12). A candidate presenting also Grade XIII certificates or the equivalent in at least four subjects (not papers) may expect to graduate in three years for a General Course degree or four years for one in an Honors Course.

I. GENERAL COURSE WITH JUNIOR AND SENIOR DIVISIONS
   (a) JUNIOR GROUP 1—Leading to Senior Group A, page 23, for a General Course with Science options or to specified Honors Courses listed on page 22.
   (b) JUNIOR GROUP 2—Leading to Senior Group B, page 23, for a General Arts Course, or to specified Honors Courses listed on page 23.

II. GENERAL COURSE WITH SECRETARIAL SCIENCE OPTIONS, page 24.

III. PRE-THEOLOGICAL GENERAL COURSE, page 24.

IV. GENERAL COURSE WITH HOME ECONOMICS OPTIONS, page 25.

V. GENERAL COURSE FOR TEACHERS, page 26.

VI. GENERAL COURSE WITH MUSIC OPTIONS, page 92.

VII. PREMEDICINE—Leading to a General Course degree with Science options, or to Medicine, page 26.

VIII. ENGINEERING—The first two years of Engineering, leading to third year work in recognized Schools of Engineering.

IX. NURSES' COURSES, pages 27-28.

I. GENERAL COURSE WITH JUNIOR AND SENIOR DIVISIONS

In University College, a Junior Group requires one year's work following Grade XIII standing in four relevant subjects. In the affiliated colleges, two years' work is required following Grade XII Secondary School Graduation Diploma (see page 12) or one year's work following Grade XIII standing.

If it is permitted by the admissions policy of the college concerned, deficiencies in Grade XIII work may be made up through completion of the appropriate University courses. A student will not be allowed, however, to make up more than one Grade XIII deficiency concurrently with the final year of a Junior Group program.

The Department of Education of Ontario accepts a degree in the General Course as the academic qualification for a High School Assistant's Certificate, Type B.

Junior Group 1 $350

Requirements for Admission: Grade XIII standing in English, Mathematics (three papers), French or German or Latin, Chemistry and Physics.

A student expecting to enter an Honors Course should consult the program of his proposed course (pages 28-42) before selecting his options in Junior Group 1.

This group is a prerequisite for all the Honors Natural Science courses and for Honors Mathematics and Physics. It is one of the Junior Groups acceptable for Honors Geography, Honors Philosophy and Honors Psychology.

Subjects	*Subjects*	*Subjects*
English 20	Three of:	English 29
Chemistry 20	Botany 20	Health Lectures
Physics 20	Geology 20	Library Science
	Mathematics 24	Physical Education
	Zoology 20	

Junior Group 2

Requirements for Admission: Grade XIII standing in English, Latin or Mathematics (any two papers), and two of: History, Biology, Physical Science, Music, one or more languages other than English.

A student expecting to enter an Honors Course should consult the outline of his proposed course (pages 28-42) before selecting his options in Junior Group 2.

The Honors courses for which Junior Group 2 is a prerequisite are Business Administration, Business Administration and Secretarial Science, Classics, Economic and Political Science, English and French, English and German, English and Latin, English and Philosophy, English Language and Literature, French and Latin, History, Journalism, Modern Languages, Psychology, Social Science, Physical, Health and Recreation Education.

Junior Group 2 is acceptable for Honors Geography and Honors Philosophy.

Subjects

English 20
French 20 or another language 20
One of: Latin 20, Mathematics 20, Natural Science at the 20-29 level
Two of: Economics 20, History 20, Philosophy 20
One of: Business 20
Economics 20
Geography 20
History 20
Journalism 20
Mathematics 20
Music 20, Philosophy 20
Psychology 20
another language
another science
English 29
Health Lectures
Library Science
Physical Education

Senior Groups *

To graduate in either of the groups below, a student must obtain at least Grade C in one-half the courses of his group and a passing mark (Grade D) in the rest.

A course which appears in both Junior and Senior Groups will not count more than once towards a degree.

Group A

This two-year group is open to any student who has completed Junior Group 1 or the equivalent.

Subjects

Economics 20
English 32, 36, 38, 45, 49 (any two)
History 30
Politics 32a or 32b or 42a or 42b
Psychology 20 or 30
One of: History 31, 44, Philosophy 30 32, Psychology 36, 39, 48, a language
Five courses (or the equivalent) from:
Botany 31a, 32b, 33a, 36b, 43b
Chemistry 32, 33, 44, 46
Geography 20, 29, 30, 35, 40, 45
Geology 20
Mathematics 23b, 24, 29 (Astronomy) 35
Physics 35
Zoology 23, 24, 25, 34, 41, 347

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 must include Economics 20, Psychology 20 and Sociology 28 in their Arts programs; Politics 32, Psychology 36, 39, 49, and History 31 are advisable also.

Subjects

English 32 36, 38, 45, 49 (any two)
History 20, 30**, 31, 36, 44 (any two)
Biological Science 21 or Geography 20 or
Geological Science 21 or Physical Science 21 (one not taken previously)
Philosophy 30 or Psychology 20 (one not taken previously)

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*A revised General Course has been approved by the Senate. Students who entered the University before July 1954 will be permitted to complete the course they began. The new Junior Groups 1 and 2 are printed in this Announcement. The new Senior Groups will not be in effect until 1955, but in the meantime copies of the whole course may be obtained from the Registrar's Office.

**History 30 may not be taken by anyone who has credit for History 20 or 36 or 21 or 45, 46.

Three courses (or the equivalent) which must include Economics 20 and Psychology 20 (if not taken previously) and Politics 32a or 32b or 42a or 42b, from:

Biblical Literature 40x (O.T. or N.T.)
Church History 40x
Economics 20, 30, 33, 46
Geography 20, 29, 35, 40, 45
Music 10, 20, 30
Philosophy 30, 31, 35, 36, 42, 43, 47 or 30x - 37x, 42x - 47x
Politics 32
Psychology 20, 35, 36, 38, 39, 46, 48, 49 or 35x, 36x, 37x, 38x, 44x, 46x, 49x
Religious Knowledge 20x, 21x, 22x, 23x, 24x, 30x, 31x, 40x, 41x
Sociology 28, 48, 49

Two courses (or the equivalent) from:
English 39, 46
French 20, 30, 40, 48, 271, 381, 491
German 20, 30, 31, 40, 41
Greek 10, 20, 29, 30, 40
Hebrew 1, 10
History 33a
Italian 1, 10, 20
Journalism 20
Latin 20, 30, 39, 40
Mathematics 23b, 24, 29 (Astronomy) 35
Military Studies
Physical, Health and Recreation Education 251, 258, 266, 352, 353, 372, 375, 382
Russian 1, 10, 20, 29, 30, 37
Spanish 20, 30, 31, 40, 41
Senior Group courses, not already counted, in Economics, English, History, Philosophy, Politics, Psychology and Sociology.

II. GENERAL COURSE WITH SECRETARIAL SCIENCE OPTIONS

Second Year $310

The registrations in this year are limited in number. To secure admission students must present certificates of standing in Grade XIII English; one modern language (French preferred); Latin or Mathematics (two papers); and Biology or History or Music or Physics and Chemistry. Applicants with standing in five Grade XIII subjects (not papers) will be given a preference for admission. Students must clear all the courses of the second year before begining any work of the third year.

Subjects	*Subjects*
Business 20	A survey course in Science
English 20, 29	One of: French 20, German 10 or 20, Spanish 20
Health Lectures	Secretarial Science 28, 29
Library Science	
Physical Education	

Third Year

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

Fourth Year

English 32 or 38 or 49	One of: French 43, German 30, 31 or 40, 41, Spanish 40, 41
History 31	
Secretarial Science 47, 48, 49	

III. PRE-THEOLOGICAL GENERAL COURSE $310

Requirements for Admission: Secondary School Graduation Diploma, and Grade XIII (or equivalent) standing in English, History, and two of the following (one of which must be a language): Latin, French, Greek, German, Spanish, Music, Mathematics (any two) or Science (Botany and Zoology, or Physics and Chemistry).

This course leads to the degree of Bachelor of Arts and is the normal requirement for admission to the three-year course leading to the title of L.Th. from Huron College. If, however, a student wishes to take another course leading to either a General or an honors degree, Huron College will give its consent. In such cases the students should include Greek 1, 10 and 35x in his undergraduate program.

For the substitution of two courses in place of Hebrew, the consent of the Board of Studies at Huron College is required.

Course numbers followed by "x" indicate a Theological Option approved by the University and taught by Huron College only.

Second Year

Subjects	*Subjects*
English 20, 29x	Philosophy 20 or 30
Greek 1	Psychology 20
Library Science	Geological Science 21 or Physical Science 21 or Biological Science 21
Physical Education	

Third Year

Economics 20	History 30
English 32 or 36 or 38	Philosophy 31 or 36
Greek 10	Psychology 36 or 39

Fourth Year

English 44 or 45 or 49	History 31 or 44
Greek 35x	Philosophy 42 or 47
Hebrew 1-10	Psychology 48 or 49

For the Huron College B.A. General Course with Theological Options (for those students over twenty-one years of age), see the Huron College section, page 90.

IV. GENERAL COURSE WITH HOME ECONOMICS OPTIONS

$350.00

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 jointly by University College and Ursuline College. University College students in the course will take all their classes at University College except in Home Economics; Ursuline College students will take all their science courses in University College.

After the completion of the course, students may take dietetic interne training in institutions approved by the Canadian Dietetic Association for professional standing.

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.

Grade XIII standing in English, French, Latin, Mathematics will cancel English 10, French 10, Latin 10, Mathematics 11. Grade XIII Chemistry, Botany, Zoology with Second Class standing will cancel Chemistry 11N, Botany 11aN and Zoology 11bN, which are essential for graduation in three years.

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

First Year

Subjects	*Subjects*
Botany 11N	Library Science
English 10, 29	Math. 11 or Latin 10
Chemistry 11N	Physical Education
French 10 or German 10 or Spanish 1-10	Zoology 11N
Health Lectures	

Second Year

Botany 36b	Home Economics 23x, 25x, 26x
Chemistry 32	*Religious Knowledge 20x
English 20	Zoology 24a
French 20 or German 20 or Spanish 20	

Third Year

Chemistry 33	Home Economics 30x, 31x, 32x, 33x 34x
Economics 20	Psychology 20
English 32 or 36 or 38	

Fourth Year

Chemistry 46.

Home Economics 40x, 41x, 42x, 45bx, 46x, 47x, 48x.

V. GENERAL COURSE FOR TEACHERS

Requirements for Admission: Secondary School Graduation Diploma, General Course, including one foreign language, and an Interim First Class Certificate, based on eight Grade XIII papers (or the equivalent).

This course leads to a B.A. degree and satisfies the academic requirements for (1) a Permanent First Class Certificate of the Department of Education for teaching in the elementary school system, (2) a High School Assistant's Certificate, Type B, in the secondary school system.

The subjects whose number is followed by T count for graduation in this course only (see pp. 88-9). They may be offered in the Summer School, Correspondence and/or Extension Departments. At least one Science course, with Laboratory, must be taken in the University.

Second Year

Subjects	*Subjects*
Economics 20	English 26T
English 20, 29S	French 20 (or other language)
Library Science	Geology 21
Psychology 20	Handicrafts 20T.
Zoology 23S	Home Economics 25, 26
Two courses (or the equivalent) from:	Music 20T
Art 20T	Physics 21
Astronomy 29a	Secretarial Science 29a
Biological Science 21	Sociology 28
Educational Counseling 20T	

Third Year

Politics 42a or 42b	French 30 (or other language)
English 32 or 38, 31T, 39S	Geography 35
Geography 20	Handicrafts 30T
History 31	Home Economics 30a, 31a, 32a
Psychology 35S, 36	Music 30T
One course (or the equivalent) from:	Physical Education 20
Art 30T	Politics 32
**Education	Secretarial Science 29b
Educational Counseling 30T	Second year options not chosen previously
English 33T, 36S	

Fourth Year

English 32 or 38 (the one not chosen previously) or 49	English 46 or 46S
Geography 45	French 40 (or other language)
History 35	Home Economics 30b, 31b, 32b, 33, 34
Psychology 39, 48	Physical Education 30
Public Health 30S	Psychology 46, 49
One course (or the equivalent) from:	Options of the second or third year not chosen previously
**Education	

VI. GENERAL COURSE WITH MUSIC OPTIONS (See Pages 92-3)

VII. PREMEDICINE

Requirements for Admission: Grade XIII standing in English, Mathematics (three papers), French or German or Latin, Chemistry and Physics.

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*For Ursuline College students only.

**These are not the usual courses offered by the Department of Education.

First Year

Subjects	*Subjects*
English 20, 29	Botany 20
Health Lectures	Chemistry 20
Library Science	Physics 20
Physical Education	Zoology 20
Geology 20 or Mathematics 24	

Second Year

Chemistry 203M, 204M.	At least two and not more than three of:
English 33M.	Economics 20 or Sociology 28
Mathematics 35.	Geography 20
Physics 204M.	History 30
Zoology 200M.	Philosophy 32
	Psychology 20

On the completion of this program, those accepted by the Admissions Committee of the Faculty of Medicine must be prepared to register with the College of Physicians and Surgeons, and to submit a birth certificate for this purpose.

Any students who are not accepted for admission to Medicine proper may proceed, if their records are satisfactory, to one of the Honors Science courses, or to the General Course with Science options. On completion of the Honors third year or the General Course final year, they may again apply for admission to the Faculty of Medicine.

VIII. ENGINEERING $350.00

Requirements for Admission: Grade XIII or equivalent standing in English, another language, Algebra, Geometry, Trigonometry and Statics, Physics and Chemistry, preferably with 66% average in Mathematics and Science.

For details of this two-year course leading to third year work in recognized Schools of Engineering, consult a separate pamphlet to be obtained from the Registrar's Office.

IX. DEGREE COURSES IN NURSING $350.00

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

COURSE A

Requirements for Admission: Secondary School Graduation Diploma (page 12) and Grade XIII (or equivalent) standing in English, a foreign language (French preferred), Botany, Chemistry and Zoology (with 66% in the Science papers).

The length of this course is five calendar years. It is made up of three parts as follows:

Part A: One academic year in the Faculty of Arts and Science:

Subjects	*Subjects*
Botany 36b	Health Lectures
Chemistry 32a	Library Science
Sociology 28	Physical Education
English 20, 29	Psychology 20
Language of Grade XIII continued.	Zoology 24

Part B: Thirty-two continuous months in a hospital School of Nursing 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 this University. The student may choose the Public Health Nursing 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 without the written permission of both the Dean of the School of Nursing and the University Registrar.

PSYCHIATRIC NURSING COURSE (3 months) $150.00

DEGREE COURSE IN NURSING $310.00

COURSE B

(For Graduate Nurses Only)

Requirements for Admission:

(1) Secondary School Graduation Diploma (page 12) and Grade XIII (or equivalent) standing in English, one language (preferably French), and any four additional papers. Equivalent standing includes first year college courses available for adult special students over twenty-one years of age.

(2) Proof of graduation from a hospital School of Nursing in which the program of education and clinical experience is approved by a committee of which the Dean of the School of Nursing is Convener.

(3) Proof of registration as a graduate nurse in good standing.

(4) The completion of one academic year in one of the specialized professional programs (Public Health Nursing or Instructor in Nursing) in this University's School of Nursing. Applicants who hold certificates or diplomas of specialized professional study at another University are required to complete one term (or semester) of study in this University's School of Nursing in addition to the Arts and Science subjects of the degree course.

Subjects

Chemistry 11N or Botany 11N and Zoology 11N
English 20, 29
Language of Grade XIII continued.
Physical Education
Three courses (or the equivalent) from:
Sociology 28, 48, 49 (if not chosen previously.)

Subjects

Options (continued):
English 36, 38
Geography 20
History 30, 31
Journalism 20, 355, 360, 460
Philosophy 20
Politics 42a
Psychology 20, 36, 48, 49

HONORS COURSES

The Honors Courses in Biology, 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.).

$350.00

Biology

Requirements for Admission: Junior Group 1, page 22, with an average of at least 60% in the Science subjects, and not less than 60% in Botany 20 and 60% in Zoology 20.

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

Subjects

Botany 250
Chemistry 200
German 5 or Russian 1
Mathematics 35 or 255a (the latter for those who have completed Math. 24)

Subjects

Physics 204
Zoology 250
One of: Economics 20
English 32 or 35
Philosophy 20
Psychology 30

Third Year

For admission to the Third Year an average of 66% in the Biology of the Second Year and an average of 60% in all other subjects is required.

Botany 352a
Chemistry 303
German 35 or Russian 10

Zoology 347, 350
Three of: Botany 354, 361, Zoology 354, 360b

Fourth Year

For admission to the Fourth Year an average of 66% in the Biology of the Third Year and an average of 60% in all other subjects is required.

(a) Botany Option

Subjects	*Subjects*
Botany 453a, 453b or 454b, 460, 461a, 466b, 452 (optional)	French 45
Chemistry 406	German 45 or Russian 45
	Zoology 455

(b) Zoology Option

Botany 453a or 453b or 466b	German 45 or Russian 45
Chemistry 406	Zoology 452, 453, 454, 455, 456, 460
French 45	One of: Zoology 462, 470

Business Administration

Requirements for Admission: Group 2, page 23, with at least 60% in Economics and 60% in Business.

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

Second Year $310.00

Subjects	*Subjects*
Business 250 (Accounting)	Two courses (or the equivalent) from
English 35	English 32, 36, 38, 44, French 20, 30,
Two of:	33, 43, Geography 29, History 31, 35,
Economics 233, 257, 300, 346	44, Philosophy 30 or 32, Psychology
Politics 232	46, 49, Spanish 20, 30, 31

Third Year $380.00

Admission to the Third Year (the School of Business Administration) is by permission of the Dean. 60% in Business 250 and an average of 60% in the other subjects of the Second Year are required.

Business 351 (Marketing)	One course (or the equivalent) chosen
Business 353 (Business Finance)	from the Humanities and the Social
Business 354 (Production Management)	Sciences, as approved by the Dean of
Business 357 (Control)	Business Administration

Fourth Year $380.00

For admission to the Fourth Year an average of 66% in Third Year Business Administration is required.

Business 458 (Administrative Practices)	454 (Production Policy)
Two courses (or the equivalent) from	455a (Management Statistics)
the Humanities and the Social	455b (Statistical Quality Control)
Sciences, as approved by the Dean	456 (Commercial Law).
Three courses (or the equivalent) from	459 (Research, by permission only)
Business Administration courses, as	460b (Auditing)
approved by the Dean:	461 (Retailing)
450a (Industrial Accounting)	462 (Industrial Relations)
451 (Sales Management)	464a (Purchasing)
452 (Personnel Administration)	470 (Financial Accounting)
453 (Financial Management)	471 (Advertising)
	481b (Market Analysis)

Information concerning Graduate Courses in Business Administration and additional information concerning undergraduate courses will be found in the School of Business Administration Announcement. A copy may be obtained from the Registrar on request.

Business Administration and Secretarial Science $310.00

Requirements for Admission: Group 2, page 23, with at least 60% in Economics and Business.

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

Second Year

Subjects	*Subjects*
Business 36 (Business Mathematics) and 250 (Accounting)	Economics 233, 257
Geography 29	Secretarial Science 28, 29

Third Year

For admission to the Third Year an average of 66% in Second Year Business and Secretarial Science is required, and an average of 60% in all other subjects.

Business 351 (Marketing) and 357 (Control)	English 35
	Secretarial Science 37, 38, 39

Fourth Year

For admission to the Fourth Year an average of 66% is required in the Business and Secretarial Science of the Third Year, and an average of 60% in all other subjects.

Subjects	*Subjects*
Business 456 (Commercial Law and Documents of Commerce) and 460b (Auditing)	Economics 46 or English 32 or 44 or 49
	History 30 or 31 or 44
	Secretarial Science 47

Students who do not wish to qualify for the High School Assistant's Certificate, Type A, Commercial Subjects, may substitute for Business 460b either Business 461 (Retailing) or 471 (Advertising).

Chemistry $350.00

Requirements for Admission: Group 1, page 22, with an average of at least 60% in Science and Mathematics courses and not less than 60% in Chemistry, and an average of 60% in Physics and Mathematics.

This course satisfies the academic requirements for the High School Assistant's Certificate Type A, Chemistry and Physics, of the Department of Education of Ontario, if Botany and Zoology are selected in Junior Group 1 and either Botany or Zoology in the second year.

Second Year

Subjects	*Subjects*
Chemistry 200, 251, 252	Physics 255
German 5 or Russian 1	Botany 250 or Geology 251 or Zoology 250

Third Year

For admission to the Third Year an average of 66% is required in the Chemistry of the Second Year, and an average of 60% in all other subjects.

Chemistry 353, 354	Physics 254
German 35 or Russian 10	English 35 or Philosophy 32

Fourth Year

For admission to the Fourth Year an average of 66% is required in the Chemistry of the Third Year, and an average of 60% in all other subjects.

Chemistry 452, 453, 454, 457, 458, 459	German 45 or Russian 45
French 45	Physics 456 or Chemistry 406

Chemistry and Physics

Requirements for Admission: As for Honors Chemistry.

This course satisfies the academic requirements for the High School Assistant's Certificate, Type A, Physics and Chemistry, of the Department of Education of Ontario, if Botany and Zoology are chosen in Junior Group 1.

Second Year

Subjects	*Subjects*
Chemistry 200, 252	Mathematics 254, 255a
German 5 or Russian 1	Physics 251b, 254, 255

Third Year

For admission to the Third Year an average of 66% is required in the Chemistry and Physics of the Second Year, and an average of 60% in all other subjects.

Chemistry 353, 354	Mathematics 354 or Physics 351
German 35 or Russian 10	Physics 250, 353, 366

Fourth Year

For admission to the Fourth Year an average of 66% is required in the Chemistry and Physics of the Third Year, and an average of 60% in all other subjects.

Chemistry 452	Physics 456
French 45	English 44 or Philosophy 32
German 45 or Russian 45	

Either the Chemistry or the Physics Option below:

CHEMISTRY OPTION	PHYSICS OPTION
Chemistry 453, 454, 457, 458, 459	Physics 454, 455, 457, 458, 459

Classics

Requirements for Admission: Group 2, page 23, with an average of 60% in Latin 20 and 60% in Greek 20.

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

Second Year

Subjects	*Subjects*
English 32	Greek and Latin 257
French 20 or German 20 or Hebrew 20	Latin 230, 250, 251
Greek 230, 250, 251	

Third Year

For admission to the Third Year an average of 66% is required in the Greek and Latin of the Second Year, and an average of 60% in all other subjects.

English 45	Latin 340, 350, 351, 352
Greek 340, 350, 351, 352	

Fourth Year

For admission to the Fourth Year an average of 66% is required in the Greek and Latin of the Third Year, with 60% in English.

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

Economic and Political Science

Requirements for Admission: Junior Group 2, page 23, with at least 60% in Economics.

NOTES: (1) At least one course in Natural Science or Mathematics, and one course in History, and one in Psychology are required for an honors degree in Economic and Political Science.

(2) History 30 may not be selected if History 20 has been taken previously.

Second Year

Subjects

Economics 233, 257
Politics 232
English 35
Geography 29
One of: Business 250, History 30, Psychology 20, Philosophy 30 (if Philosophy was not chosen previously)
One of: Math. 20, 24, 250, a natural science not chosen previously, another option approved by the Dept. of Economics.

Third Year

For admission to the Third Year an average of 66% is required in the Economics courses of the Second Year, and an average of 60% in all other subjects.

Economics 300, 346, 355
Sociology 328
Three courses (or the equivalent) from: Economics 351a, 353, 354, Business 250 (Accounting), 351 (Marketing), 354 (Production Policy), English 44, French 30, 33, Geography 35, German 20, 30, History 30, 31, 44, 257

Options continued:
Mathematics 20, 24, 250, 350, Philosophy 31, 44, Politics 342a, 342b, 351b, Psychology 20 or 46, Sociology 348, Spanish 20, 30, 31, another option approved by the Dept. of Economics

Fourth Year

For admission to the Fourth Year an average of 66% is required in the Economics courses of the Third Year and an average of 60% in all other subjects.

Economics 450, 453, 460
Politics 452
Two courses (or the equivalent) from: Geography 35, 45, Math. 455, Politics 462b, Psychology 48, 49, Sociology

Options continued:
449, 478, other options approved by the Dept. of Economics

English Language and Literature $310.00

Requirements for Admission: Group 2, page 23, with 60% in English 20 and an average of 60% in the two languages taken.

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

Second Year

Subjects

English 236, 250, 254
Greek 29
History 35
Two of:
French 270; German 290; Latin 230, 250; Greek 230, 250

Third Year

For admission to the Third Year an average of 66% is required in the English of the Second Year, and an average of 60% in all other subjects.

English 350, 356, 357, 358, 363
French 380 or German 390 or Latin 340, 352 or Greek 340, 352
Philosophy 30 or Psychology 20 or a second Honors language

Fourth Year

For admission to the Fourth Year an average of 66% is required in the English of the Third Year, and an average of 60% in all other subjects

English 450, 459, 460, 463
English 441 or 470
French 490 or German 480 or Latin 450, 452 or Greek 452

English and French $310.00

Requirements for Admission: Group 2, page 23, with an average of at least 60% in English 20 and in French 20.

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.

Second Year

Subjects	*Subjects*
English 236, 250, 254	German 290 or Latin 230, 250, or
French 270, 271, 290	*Spanish 230 or 340, 231
History 35	

Third Year

For admission to the Third Year an average of 66% is required in the English and French of the Second Year, and an average of 60% in all other subjects.

English 350, 356, 357, 363	Greek 29
French 380, 381	

Fourth Year

For admission to the Fourth Year an average of 66% is required in the English and Latin of the Second year, and an average of 60% in all other courses.

English 450, 459, 460.	French 450, 490, 491

English and German $310.00

Requirements for Admission: Group 2, page 23, with at least 60% in English 20 and in German 20. History 20 must be chosen as an option in the Junior Group.

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 German. See page 18.

Second Year

Subjects	*Subjects*
English 236, 250, 254	One of: French 270, Greek 20, Latin 230,
German 290, 291	250, Politics 32, Russian 10, Spanish
History 36	20 or 230

Third Year

For admission to the Third Year an average of 66% is required in the English and German of the Second Year and an average of 60% in all other subjects.

English 350, 356, 357, 363	One of: Economics 20, French 380, Latin
German 333, 390, 391	340, or 350, 352, Greek 30, Philosophy
	20 or 30, Russian 20, Spanish 230 or
	340

Fourth Year

For admission to the Fourth Year an average of 66% in the English and German of the Third Year, and an average of 60% in all other subjects.

English 450, 459, 460	German 420, 480, 481

English and Latin $310.00

Requirements for Admission: Junior Group 2, page 23, with 60% in English 20 and 60% in Latin 20.

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.

Second Year

Subjects	*Subjects*
English 236, 250, 254	Latin 230, 250, 251
Greek 29	French 270 or Greek 20 or Greek 230
History 257	and 250 or German 20 or 290

*Students who begin Spanish in the University will take Spanish 20 in the second year and will defer Spanish 231 until the third year.

Third Year

For admission to the Third Year an average of 66% is required in the English and Latin of the Second Year, and an average of 60% in all other courses.

English 350, 356, 357, 363
History 35

Latin 340, 350, 351, 352

Fourth Year

For admission to the Fourth Year an average of 66% is required in the English and Latin of the Third Year, and 60% in History.

English 450, 459, 460

Latin 450, 451, 452, 453, 457

English and Philosophy

$310.00

Requirements for Admission: Junior Group 2 (including History), page 23, with 60% in English 20 and 60% in French 20 or German 20 or Latin 20.

Course B is accepted by the Department of Education of Ontario as academic qualification for the High School Assistant's Certificate, Type A, English. See page 18. For this certificate, French is the language preferred by the Department of Education.

COURSE A

Second Year

Subjects	*Subjects*
English 250, 254.	Two courses of options approved by the
Philosophy 230, 231	Heads of the two major Departments.

Third Year

For admission to the Third Year an average of 66% is required in the English and Philosophy of the Second Year, and an average of 60% in all other subjects.

English 350, 356
Philosophy 336, 347

Two courses of options, to be selected as in the Second Year.

Fourth Year

For admission to the Fourth Year an average of 66% is required in the English and Philosophy of the Third Year, and an average of 60% in all other subjects.

English 450, 459, 460

Philosophy 457, 448, and one of: 443, 456, 462, 466

English and Philosophy

COURSE B (Language Option)

$310.00

Second Year

Subjects	*Subjects*
English 250, 254, and 236 or 358	*French 270, 271 or German 290, 291
Philosophy 230, 231	or Latin 230, 251

Third Year

For admission to the Third Year an average of 66% is required in the English and Philosophy of the Second Year, and an average of 60% in all other courses.

English 350, 356, 357, 363
French 380 or German 390 or Latin 340, 250

Philosophy 347, 335

Fourth Year

For admission to the Fourth Year an average of 66% is required in the English and Philosophy of the Third Year, and an average of 60% in all other subjects.

Three courses (or the equivalent) from English 441, 450, 459, 460, 463

Philosophy 336, 457, 448

*French is the language preferred by the Department of Education of Ontario for Type A, English, High School Assistant's Certificate.

French and German

(See Modern Languages and Literatures)

French and Latin

Requirements for Admission: Group 2, page 23, with at least 60% in French and 60% in Latin.

This course is accepted by the Department of Education of Ontario as academic qualification for the 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.

Second Year

Subjects	*Subjects*
English 35	German 20 or Greek 20
French 270, 271, 290	Latin 230, 250, 251, 257

Third Year

For admission to the Third Year an average of 66% is required in the French and Latin of the Second Year, and an average of 60% in all other subjects.

French 380, 381	History 30 (or 36, if History 20 has been chosen in the Junior Group)
German 30, 31 or Greek 30	Latin 340, 350, 351, 352
Greek 29	

Fourth Year

For admission to the Fourth Year an average of 66% is required in the French and Latin of the Third Year, and an average of 60% in all other subjects.

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

French and Spanish

(See Modern Languages and Literatures)

Geography

Requirements for Admission: Junior Group 1 (page 22) or Junior Group 2 (page 23) with an average of at least 60% in the subjects taken.

This course is accepted by the Department of Education of Ontario as academic qualification for the High School Assistant's Certificate, Type A, Geography, providing the options marked by an asterisk are selected.

Second Year

Subjects	*Subjects*
Geography **20, 229	Division A subjects:
Mathematics 35	Economics 20
One course (or the equivalent) from:	German 5 or Russian 1 or Spanish 1-10
Botany 33a, Economics 257, History *20 (if not chosen previously) or *36, Mathematics 24, Zoology 23, Sociology 28	Psychology 20
	Division B subjects:
	Botany 20
	Geology 20
Division A or Division B (A follows Junior Group 1, B follows Junior Group 2)	Philosophy 30 or one additional year's work in a modern foreign language.

NOTE: Students who intend to continue into graduate studies are advised to begin work in a second foreign language in the third year, if they have not done so earlier. Consult the Department of Geography for advice on this subject.

**Anyone who has taken Geography 20 in Junior Group 2 will repeat it with additional assignments for Honors standing or will take instead one course of options from those listed.

Third Year

For admission to the Third Year an average of 66% is required in the Geography of the Second Year (20 and 229), and an average of 60% in all other subjects.

Subjects
English 35
Geography 330, 335
Geology 256
History 31
Mathematics 29
Politics 232

Subjects
One course (or the equivalent) from:
Economics 354
German 35 or Russian 10
*History 36
Philosophy 30 (if not chosen previously)
Politics 342
Sociology 348
Second year options not already chosen.

Fourth Year

For admission to the Fourth Year an average of 66% is required in the Geography of the Third Year (330 and 335), and an average of 60% in all other subjects.

Economics 351a
French 45 or German 45 or Russian 45 or Spanish 45
Geography 440, 445, 447 (any two)
Geology 367
History 44
One course (or the equivalent) from:
Economics 300
English 38 or 49

Options continued:
Geology 263
Philosophy 47
Politics 462b
Psychology 36 or 49
Zoology 453
Second or Third Year options not already chosen.

NOTE: Students in Fourth Year Honors Geography shall attend all graduate seminars in Geography (501 and 511) without credit.

Geology

Requirements for Admission: Junior Group 1, page 22, with an average of 60% in the Science subjects and not less than 60% in Geology 20.

Consult the department head regarding options in the various years.

Near the beginning of the first term, the department will conduct a field trip of one week's duration, in which all Third and Fourth Year students are required to participate. The cost of each trip will not exceed fifty dollars.

Second Year

Subjects
Chemistry 200
Geology 251, 252, 256, 263
German 5

Subjects
Physics 204
One of: Botany 20, Mathematics 254, Zoology 250

Third Year

For admission to the Third Year an average of 66% is required in the Geology of the Second Year, and an average of 60% in all other subjects.

Business 20 or Economics 20 or Philosophy 20
Geography 30

Geology 351, 354, 360, 363, 365, 367
German 35

Fourth Year

For admission to the Fourth Year an average of 66% is required in the Geology of the Third Year, and an average of 60% in all other subjects.

French 45
Geology 452, 454, 455, 458, 460
German 45

One Geology and one other course from:
Geology 463, 465, Philosophy 31, Politics 32, Psychology 30

History

Requirements for Admission: Junior Group 2, page 23, with 60% in History and an average of 60% in English, one other language, and either Economics or a second language.

This course will be accepted by the Department of Education of Ontario as the academic qualification for the High School Assistant's Certificate, Type A, History, if the options marked by an asterisk are taken. See page 18.

Second Year

Subjects

Business 20 or Philosophy 30
Economics 20* (or English 35 if Economics 20 has been chosen previously)
History 236, 257
Two of: French 30, German 30, Greek 30, Latin 30, Spanish 20 or 30, Geography 20*

Third Year

For admission to the Third Year an average of 66% is required in the History of the Second Year and an average of 60% in all other subjects.

Geography 229
Geography 335* or Psychology 20
History 35, 331, 333a, 354b (or Russian 337a or b), 356a
Economics 233* or English 250, 254, or Literature courses in two foreign languages, to be arranged, or Russian 337

Fourth Year

For admission to the Fourth Year an average of 66% is required in the History of the Third Year, and an average of 60% in all other subjects.

Economics 450a
History 444, 452, 455
Politics 232, 452a
Geography 445*, or Economics 450b and Politics 452b, or Economics 346 or 453, or English 32 or 38 or 45 or 49, or Literature courses in two other languages to be arranged.

Journalism

Requirements for Admission: The completion of Junior Group 2 with 60% in Journalism 20; 60% in English 20 is also required for Sequence B.

Notes: (1) Students must follow either Sequence A or Sequence B consistently.
(2) Transfer students from other colleges or courses must include Journalism 20 in the second year of the Honors course if it has not been taken previously; 60% is required in it.

Second Year

Subjects

Journalism 250
Politics 32
History 31 or 331
Sequence A or Sequence B:

Sequence A

Business 20
English 35
Geography 229

Sequence B

One course in Economics or Geography or Psychology (Economics 20 or Psychology 20 unless both have been completed previously)
Two courses in Honors English and/or French (to be selected in consultation with the Journalism and the other Departments concerned)

Third Year

For admission to the Third Year, Sequence A requires an average of 66% in Journalism 250 and three other subjects, with an average of 60% in the remaining subjects. Sequence B requires an average of 66% in Journalism 250 and in the other Honors courses, with an average of 60% in the remaining subjects.

Politics 42
Journalism 350, 355, 360, 365, 370, 375
Sequence A or Sequence B:

Sequence A

Philosophy 230
An optional course (to be selected in consultation with the Department of Journalism)

Sequence B

Two courses in Honors English and/or French (to be selected in consultation with the Journalism and the other Departments concerned)

Fourth Year

For admission to the Fourth Year an average of 66% is required in the Journalism subjects of the third year, and an average of 60% in all other subjects.

Subjects
Politics 351b
History 44 or 444
Journalism 450, 455, 460
Sequence A or Sequence B:
Sequence A
History 36
Two courses of options (to be selected in consultation with the Department of Journalism)

Subjects
Sequence B
One course in a Social Science (Economics 20 or Psychology 20 unless both have been completed previously)
Two courses in English and/or French (to be selected in consultation with the Journalism and the other Departments concerned)

See also the Diploma Course in Journalism for graduates of other courses, page 43.

Mathematics and Physics

Requirements for Admission: Junior Group 1, page 22, with an average of 60% in the Science and Mathematics subjects, and at least 60% in Mathematics and 60% in Physics.

Second Year

Subjects
German 5
Mathematics 250, 252, 254, 255a

Subjects
Physics 250, 251b, 254, 255

(a) Mathematics Option

(1) The Mathematics Option is accepted by the Department of Education as academic qualification for the High School Assistant's Certificate Type A, Mathematics. See page 18. Degree of B.A.

(2) In each of the Third and Fourth Years of this option there is a principal sequence of three required mathematics courses, augmented by a number of optional courses. The minimum number of courses in each year is eight.

(b) Actuarial Science Option

(1) This Option is accepted by the Department of Educaton as academic qualification for the High School Assistant's Certificate, Type A, Mathematics. See page 18. Degree of B.A.

(2) **Courses marked with asterisks are compulsory for Actuarial Students.**

(3) In each of the Third and Fourth Years there is the same main sequence of Mathematics courses as in Option (a). The minimum number of courses in each year is eight.

(4) The Actual Science Option will prepare students to write three preliminary examinations sponsored by the Society of Actuaries. The first two examinations may be written at the end of the Second Year, and the third at the end of the Fourth Year. Examinations of the Society of Actuaries are held about May 15th and may be written in London. Applications to write the preliminary examinations must be received by March 15th.

Third Year — Options (a) and (b)

For admission to the Third Year an average of 66% is required in the Honors courses of the Second Year.

Business 250* or English 35
German 35
Mathematics 350, 354, 358

Two of: Mathematics 351, 353*, 359, 363*, Physics 350, 353
One of: Economics 20*, Philosophy 30 or 31, Psychology 30

Fourth Year — Options (a) and (b)

For admission to the Fourth Year an average of 66% is required in the Honors courses of the Third Year, and an average of 60% in all other subjects.

Subjects	*Subjects*
Mathematics 455, 456, 470	One of: Business 353*, History 30, Politics 32
Three of: Mathematics 450, 452, 454, 460, 463*, Physics 456, 457	English 44*, or French 45 and German 45

(c) General Physics Option

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

Third Year

For admission to the Third Year an average of 66% is required in the Honors Courses of the Second Year, and an average of 60% in all other subjects.

Subjects	*Subjects*
German 35	Physics 350, 351, 353, 356, 359
Mathematics 456	

Fourth Year

For admission to the Fourth Year, an average of 66% is required in the Mathematics and Physics of the Third Year, and an average of 60% in all other subjects.

Economics 20 or English 32 or 35 or Psychology 30	German 45
French 45	Physics 454, 455, 456, 457, 458, 459

(d) Radio Physics Option

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

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.

Third Year

For admission to the Third Year an average of 66% is required in the Honors courses of the Second Year.

Subjects	*Subjects*
Economics 20	Mathematics 456
German 35	Physics 351, 376, 377, 379

Fourth Year

For admission to the Fourth Year, an average of 66% is required in the Mathematics and Physics of the Third Year, and an average of 60% in all other subjects.

French 45	Physics 455, 456, 457, 458, 476, 477, 479
German 45	

Modern Languages and Literatures

Requirements for Admission: Group 2, page 23, with at least 60% in French and in German or Spanish.

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

Second Year

Subjects	*Subjects*
English 35	Greek *29
French 270, 271, 290	At least one course in a foreign language not chosen as a major.
German 290, 291 or Spanish *230 or 340, 231, 250 or 360	

Third Year

For admission to the Third Year an average of 66% is required in the French and in the German or Spanish of the Second Year, and an average of 60% in all other subjects.

French 380, 381	History 30
German 333, 390, 391 or Spanish 340 or 230, 341, 360 or 250	At least one course in the minor foreign language of the Second Year

Fourth Year

For admission to the Fourth Year an average of 66% is required in the French and in the German or Spanish of the Third Year, and an average of 60% in all other subjects.

French 450, 490, 491	One course in the minor foreign language continued from the Third Year.
German 420, 480, 481 or Spanish 450, 451, 460	

Philosophy 310.00

(This course is offered in University College only)

Requirements for Admission: The completion of any Junior Group or of the second year of any of the pre-Theological General Courses (pp. 24, 90, 100) with at least 60% in English and 60% in each of five other subjects.

Second Year

Subjects	*Subjects*
English 32 or 38 or History 257	Philosophy 230, 231
A Natural Science 21 not chosen previously	At least two courses from options approved by the Department of Philosophy

Third Year

For admission to the Third Year an average of 66% is required in the Philosophy of the Second Year, and an average of 60% in all other subjects.

Philosophy 336, 347	Two courses from options approved by the Department of Philosophy
Philosophy 335, or 350	
A course in Psychology	

Fourth Year

For admission to the Fourth Year an average of 66% is required in the Philosophy of the Third Year, and an average of 60% in all other subjects.

Philosophy 443, 448, 456, 457, 462, 466	One course from options approved by the Department of Philosophy

Physical, Health, and Recreation Education $350.00

Requirements for Admission: Group 2, page 22, with an average of at least 60% in the subjects taken in the University.

(1) The Physical and Health Education Option is accepted by the Department of Education of Ontario as the academic qualification for the High School Assistant's Certificate Type A, Physical Education, if History, Algebra, Geometry, Economics, Psychology, Biology and Physical Science have been selected as Grade XIII and Junior Group 2 options. Music is advised as a Grade XII option, but it is not essential.

*Students who begin Spanish in the University and who wish to major in Spanish will take Spanish 20 in the Second Year and will defer Spanish 231 and Greek 29 until the Third Year.

(2) The Recreation Education Option is accepted by the Department of Education of Ontario as the academic requirement for the High School Assistant's Certificate, Type B.

(3) Both Options lead to the Honors B.A. degree.

(4) The following information should be submitted along with the application for admission to the Honors Course:

Personal health certificate, from the applicant's family physician, including information regarding his medical fitness for either of the Honors options.

Reports on his sports achievement and leadership ability, from his secondary school Principal and physical education director.

It is advisable but not essential to possess Life Saving and First Aid Certificates.

Second Year

Subjects	*Subjects*
English 35	English 39
Physical, Health, and Recreation Ed. 251, 258, 266	Psychology 36
First Aid (if not taken previously)	Zoology 24

Note: Consult the Head of the Department before selecting either the Physical and Health Education Option or the Recreation Education Option.

(a) Physical and Health Education Option $350

Third Year

For admission to the Third Year an average of 66% is required in the Honors subjects of the second year, and an average of 60% in all other subjects.

Sociology 28	Philosophy 32
Geography 20	Physical, Health, and Recreation Ed. 351, 352, 353, 354, 356
Home Economics 31 (lectures only).	
Mathematics 35	

Fourth Year

For admission to the Fourth Year an average of 66% is required in the Honors subjects of the Third Year, and an average of 60% in all other subjects.

Subjects	*Subjects*
Politics 42a, 42b	dance with the aim of a connected course in Social Studies)
Psychology 49	Physical, Health, and Recreation Ed. 382, 450, 451, 453, 454, 457
One course in History or Geography (to be selected in consultation with the Head of the Department, in accor-	

(b) Recreation Education Option $350

Third Year

For admission to the Third Year an average of 66% is required in the Honors subject of the Second Year, and an average of 60% in all other subjects.

Sociology 28	Philosophy 32
English 36	Physical, Health, and Recreation Ed. 353, 371, 372, 375, 376, 382
One course of options to be approved by the Head of the Department	

Fourth Year

For admission to the Fourth Year an average of 66% is required in the Honors subjects of the Third Year, and an average of 60% in all other subjects.

Politics 42a, 42b	Physical, Health, and Recreation Ed. 450, 473, 476, 479, 483
Psychology 49	
One course of options to be approved by the Head of the Department	

Physics

(See Chemistry and Physics, and Mathematics and Physics)

Psychology $310.00

(This course is offered in University College only)

Requirements for Admission: Group 1 or 2, page 22 or 23, with an average of at least 60%.

Second Year

Subjects	*Subjects*
English 35 or 44	Psychology 234, 235, 236
Geology 21 or Physics 21 or Zoology 21 (one not chosen previously)	One other course approved by the Dept. of Psychology
Philosophy 20 or 30	

Third Year

For admission to the Third Year an average of 66% is required in the Psychology of the Second Year, and an average of 60% in all other subjects.

Psychology 337, 338, 339, 349, 355	Two optional courses approved by the Dept. of Psychology

Fourth Year

For admission to the Fourth Year an average of 66% is required in the Psychology of the Third Year, and an average of 60% in all other subjects.

Philosophy 42	Two optional courses approved by
Psychology 444, 446, 448, 459	the Dept. of Psychology

Social Science $310.00

Requirements for Admission: Junior Group 2, page 22, with 60% in Economics and Psychology. History 20 and Zoology 21 should also be selected as options in Junior Group 2.

Second Year

Subjects	*Subjects*
Economics 233	Psychology 234, 235, 236
Geography 29	Sociology 328
Philosophy 230	

Third Year

For admission to the Third Year an average of 66% is required in the Honors courses of the Second Year.

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

Economics 346	Sociology 348
Hisctory 36	One of: Politics 42b, Philosophy 336,
Politics 232	347, Psychology 337, 338
Psychology 339, 349, 355	

Fourth Year

For admission to the Fourth Year an average of 66% is required in the Economics and Psychology of the Third Year, and an average of 60% in all other subjects.

Economics 450, 453	Psychology 446, 448
Philosophy 443, 462	Sociology 449, 478

DIPLOMA COURSES $363.00

(i) 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.B.A. degree in one additional year's work.

Subjects

Business:
- 551 (Marketing)
- 553 (Finance)
- 554 (Production Policy)
- 558 (Administrative Practices)
- 557 (Control)
- A staff-supervised field-trip to industrial plants.

For detailed information about Graduate Courses in the School of Business Administration, consult the Announcement published by that school.

(ii) Journalism

$310.00 ???

Requirements for Admission: Graduation from a recognized college, with a degree in some field other than Journalism.

Candidates for the Diploma in Journalism will take the prescribed courses and do special assignments in reporting, writing and editing.

An average of 60% in this one-year course is required for the Diploma.

Subjects	*Subjects*
Journalism 355, 360, 365, 400, 450, 460	Two of: Journalism 370, 375, 455

DESCRIPTION OF COURSES

BOTANY

University College

Professors N. C. HART (Head of the Department) and A. R. WALKER (Professor of Plant Pathology)

Associate Professor D. A. MCLARTY

Honorary Lecturers R. A. LUDWIG and W. H. MINSHALL.

Instructors F. S. COOK and J. K. JOHANNESEN

Demonstrators: MRS. ROY ALLIN and MRS. C. M. MCCALLUM

Waterloo College

Professor B. W. KELLEY and Assistant Professor H. K. ELLENTON

11aN. **Elementary Botany:** For students of the Home Economics Course; the basic principles of Botany, including a brief survey of the plant kingdom. 2 lectures, 3 laboratory hours a week, one term: half course.

20. **Introductory Botany:** For students of the General Course, Group 1; the general principles of Botany. **To qualify for the Honors Courses in Biology a student must obtain 60 per cent. in Botany 20.**
2 lectures, 3 laboratory hours a week.

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, one term.
Prerequisites: Botany 33a and 32b, or Botany 20, or Botany 11aN (60%), or Zoology 11 (60%).

32b. **Plant Culture:** The elementary principles of plant growth, propagation and care, with particular reference to plants of the garden and home. 3 lectures, 3 laboratory hours a week, one term.
Prerequisites: Botany 20 or Botany 11aN (60%) or Zoology 11 (60%).

33a. **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.
Prerequisites: same as for 32b.

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.
Prerequisites: as in 31a. 2 lectures, 4 laboratory hours a week.

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

Prerequisite: Botany 31a or 32b or 33a.

Honors Courses

250. **The Vascular Plants:** The morphology, anatomy and development of the Pteridophyta and Spermatophyta, stressing the Seed Habit.

Prerequisite: Junior Group 1. 2 lectures, 3 laboratory hours a week.

347. **Historical Biology:** See Zoology 347. 2 hours a week.

352a. **Plant Physiology:** The function and reactions of plants and their organs. 2 lectures, 6 laboratory hours a week, one term.

Prerequisite: Botany 250.

354b. **Cytology:** A study of the structure and functions of cells and tissues, including the techniques of preparing materials for cytological studies. 2 lectures, 6 laboratory hours a week, one term.

Prerequisite: Botany 250.

361. **Mycology and Plant Pathology:** Plant diseases and classification, morphology and structure of the fungi.

Prerequisite: Botany 250. 1 lecture, 2 laboratory hours a week.

452. **Advanced Plant Physiology:** Special emphasis on biochemical and physical reactions in plants. Optional for fourth year Honors and graduate students. 2 lectures and 6 laboratory hours a week, one term.

453a. **Plant Ecology:** The structure of vegetation and its relation to the environment. 2 lectures, 6 laboratory hours a week, one term.

Prerequisite: Botany 250.

453b. **Systematic Botany and Taxonomy:** The principles of taxonomy and the identification and distribution of plants.

2 lectures, 6 laboratory hours a week, one term.

Prerequisite: Botany 453a.

454b. **Plant Anatomy:** The anatomy and histology of the Pteridophyta and Spermatophyta, including some Palaeobotany. Optional for fourth year Honors and graduate students.

2 lectures, 6 laboratory hours a week, one term.

Prerequisite: Botany 352a.

455. **Genetics:** See Zoology 455. 2 hours a week.

460a. **Cryptogamic Botany, Algae:** The morphology, evolution and classifications of the Algae.

2 lectures, 6 laboratory hours a week, one term.

Prerequisite: Botany 352a.

460b. **Cryptogamic Botany, Origin of a Land Flora:** General consideration of the evolution of land plants based largely on the studies of the liverworts and mosses. 2 lectures, 6 laboratory hours a week, one term.

Prerequisite: Botany 460a.

461a. **Advanced Mycology and Plant Pathology:** A continuation of 361, with special emphasis on groups of economic importance. 2 lectures, 6 laboratory hours a week, one term.

Prerequisite: Botany 361.

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

Prerequisite: Botany 361 or 461a.

BUSINESS ADMINISTRATION

University College

(See the School of Business Administration Announcement.)

Waterloo College

Associate Professor H. O. J. OVERGAARD

Lecturer R. E. TAILBY

20. **Introduction to Business Organization:** 3 hours a week.

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

36. **Business Mathematics.** 2 hours a week.

250. **Fundamentals of Accounting:** 3 hours a week.

Information concerning Graduate Courses in Business Administration and additional information concerning undergraduate courses will be found in the School of Business Administration Announcement. A copy may be obtained on request.

CHEMISTRY

University College

Professors J. A. GUNTON (Head of the Department), J. W. BURNS (Professor of Organic Chemistry), H. MARTIN (Honorary)

Associate Professors K. W. HUNTEN, F. L. M. PATTISON, C. SIVERTZ, J. K. WATSON

Honorary Lecturers C. R. ENGEL and E. Y. SPENCER

Senior Demonstrator: MRS. J. C. A. WILSON

Demonstrators: A. B. DURKEE and R. H. PALLEN

Fellows and Scholars: R. R. FRASER, K. C. GRAHAM, W. C. HOWELL, G. JUST, R. D. O'BRIEN, J. B. STOTHERS, J. F. K. WILSHIRE

Research Assistants: J. E. MILLINGTON, J. J. NORMAN, G. J. O'NEILL, A. SCHAVO.

Waterloo College

Professor B. W. KELLEY and Assistant Professor H. K. ELLENTON

11N. **General Chemistry for Home Economics and Nursing students.** 2 lectures, 3 laboratory hours a week.

20. **General Chemistry and Qualitative Analysis:** For Junior Group 1. 2 lectures, 3 laboratory hours a week.

32. **Analytical:** For Home Economics, Nursing and General Course students. 2 lectures, 3 laboratory hours a week.

Prerequisite: Chemistry 20 or 11N.

33. **Organic Chemistry:** For Home Economics and General Course students. 2 lectures, 3 laboratory hours a week.

Prerequisite: Chemistry 20 or 11N.

44. **Physical Chemistry:** For General Course students.
2 lectures, 3 laboratory hours a week.

Prerequisites: Chemistry 20 and 32.

46. **Biochemistry and Food Analysis:** For Home Economics and General Course students. 2 lectures, 3 laboratory hours a week.

Prerequisites: Chemistry 32 and 33.

Honors Courses

The student in Honors Chemistry or Honors Chemistry and Physics may be required to write a comprehensive examination at the end of the fourth year.

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

203M. **Organic Chemistry:** For prospective medical students.
2 lectures (both terms) and 3 laboratory hours (one term) a week.

204M. **Physical Chemistry:** For prospective medical students.
2 lectures (both terms) and 3 laboratory hours (one term) a week.

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

252. **Quantitative Analysis:** For students in Honors Chemistry and Honors Chemistry and Physics.
First term: 1 lecture, 3 laboratory hours a week;
Second term: 1 lecture, 6 laboratory hours a week.

303. **Organic Chemistry:** For Honors Biology students.
2 lectures, 3 laboratory hours a week.

Prerequisite: Chemistry 20.

353. **Organic Chemistry:** For students in Honors Chemistry and Honors Chemistry and Physics. Lectures and Laboratory exercises dealing with carbon compounds. 2 lectures, 4 laboratory hours a week.

Prerequisites: Chemistry 20 and 200.

354. **Elementary Physical Chemistry:** For students in Honors Chemistry and Physics. A systematic derivation of the principles which govern reactions in chemical systems.

3 lectures, 6 laboratory hours a week: double course.

Prerequisites: Chemistry 200 and either Chemistry 251 or Physics 251.

406. **Biochemistry:** For Honors Biology students.

Prerequisites: Chemistry 200, 303. 2 lectures, 3 laboratory hours a week.

452. **Advanced Analytical Chemistry:** Instrumental analysis; microscopy and semi-micro Quantitative Analysis.

1 lecture, 3 laboratory hours a week.

453. **Advanced Organic Chemistry:**

Prerequisite: Chemistry 353. 3 lectures, 3 laboratory hours a week.

454. **Physical Chemistry:** Thermodynamics and Kinetic Theory of Matter. 3 lectures, 3 laboratory hours a week.

Prerequisite: Chemistry 354.

457. **Tutorial:** Technical report-writing; chemical literature and patents and modern topics. 1 hour a week: half course.

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. Half course.

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.

6 hours a week: double course.

CLASSICS

University College

Professors J. D. RALPH (Head of the Department) and R. E. K. PEMBERTON
Associate Professor A. E. RAYMOND

St. Peter's College

Lecturers: REV. F. J. P. LAVERTY and REV. T. J. MCCARTHY
Instructor: REV. J. P. FINN

Waterloo College

Assistant Professor A. G. MCKAY
Lecturer: REV. D. J. GLEBE

Huron College

Professor R. K. HARRISON
Instructor: REV. M. B. PARKER†

Ursuline College

Lecturer: MOTHER M. ST. CATHERINE

† First term, 1953-54.

GREEK

1. **Elementary Greek:** A preparatory course for those who wish to begin the study of Greek at the University. 3 hours a week.

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

Prerequisite: Grade XII Greek or Greek 1.

20. Plato, *Crito;* Euripides, *Alcestis;* Xenophon, *Oeconomicus;* Demosthenes, *In Cononem;* composition, sight translation. 3 hours a week.

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: half course.

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.

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.

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 2, including Greek 20. 2 hours a week.

250. **The Greek Epic:** Selections from the *Iliad and the Odyssey.*

Prerequisite: Group 2, including Greek 20. 1 hour a week: half course.

251. **Syntax and Composition:**

Prerequisite: Group 2, including Greek 20. 1 hour a week: half course.

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

340. **Greek Tragedy:** Sophocles, *Oedipus Tyrannus, Antigone;* Aeschylus, *Prometheus Vinctus;* Euripides, *Medea.* Lectures on the theatre and the drama. 2 hours a week.

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.

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

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

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

451. **Syntax and Composition:** 1 hour a week: half course.
Prerequisite: Greek 351.

452. **Greek Philosophy:** Plato, *Republic, V-X;* Aristotle, *Ethics, I, II, IV, X.* 3 hours a week.
Prerequisites: Greek 340, 350.

453. **Reading Course in Greek:** To be taken with Latin 453.
3 hours a week, one term: half course.
Prerequisites: 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.

LATIN

1. **Elementary Latin:** A preparatory course for those who wish to begin the study of Latin at the University. 3 hours a week.

10. Selections from Latin Prose and Poetry; composition and sight translation. 3 hours a week.
Prerequisite: Grade XII Latin.

20. Cicero, Sallust, Virgil, *Aeneid II;* composition; sight translation.
Prerequisite: Latin 10 or Grade XIII Latin. 3 hours a week.

30. Catullus; Virgil, selections from the *Bucolics* and *Georgics;* selections from Horace (*Odes*) and the Elegiac Poets; composition and sight translation. 3 hours a week.
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: half course.

40. Virgil, *Aeneid I-VI;* Horace, *Satires, Epistles;* Juvenal, *Satires;* composition, sight translation. 3 hours a week.
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 2, including Latin 20. 2 hours a week.

250. Cicero, *De Amicitia.*
Prerequisite: Group 2, including Latin 20 1 hour a week: half course.

251. **Syntax and Composition:** 2 hours a week.
Prerequisite: Group 2, including Latin 20.

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

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

350. **Cicero:** the history of his life and times; *De Officiis III, Pro Archia, Philippic II, Letters.* 2 hours a week.
Prerequisites: Latin 230, 250.

351. **Syntax and Composition:** 1 hour a week: half course.
Prerequisite: Latin 251.

352. **Roman Comedy,** with an introduction to historical Latin Grammer. 1 hour a week: half course.
Prerequisites: Latin 230, 250.

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

451. **Syntax and Composition:** 1 hour a week: half course.
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.

453. **Reading Course in Latin:** to be taken with Greek 453.
Prerequisites: Latin 340, 350, 352.
3 hours a week, one term: half course.

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.

ECONOMIC and POLITICAL SCIENCE

University College

Professors M. K. INMAN (Head of the Department), W. B. Harvey, E. E. REILLY
Associate Professors C. J. BITTNER and D. IVOR
Lecturers E. M. SHORTT, E. H. SLATER and MRS. R. W. TORRENS

Ursuline College

Professor MOTHER M. ST. MICHAEL
Associate Professor MOTHER M. ROSANNA
Instructors: MOTHER M. IGNATIUS LOYOLA and REV. T. L. MCMANUS

Waterloo College

Associate Professor H. O. J. OVERGAARD
Lecturers H. H. BINHAMMER and REV. G. F. DURST

ECONOMICS

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.

30. **Economic Theory:** An intensive course in economic analysis and policy. 3 hours a week.

Prerequisite: Economics 20 or permission of the instructor.

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.

46. **Labor Problems:** The study of labor movements, the forms of labor organization, 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.

Honors Courses

Economics 300, 233 and 346 are identical respectively with 30, 33 and 46, except that additional assignments will be required in the honors courses.

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

(ii) 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.

351a. **International Economics:** International values, foreign exchange, free trade and protection, commercial treaties, quotas and exchange controls. 3 hours a week, one term: half course.

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. 3 hours a week.

354. **Agricultural Economics:** The place of agriculture in economic life, organization for agricultural production, factors chiefly responsible for success or failure, independent and co-operative marketing of agricultural products, the financing of agriculture, government policies and aid. Not offered in 1954-55. 2 hours a week.

355. **Statistical Methods:** The application of statistical methods to Economics; graphic 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.

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

453. **Monetary and Fiscal Policy:** 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.

Prerequisite: Economics 33 or the permission of the instructor.

460. **Modern Economic Theory (non-Monetary):** An intensive course in selected current theories of value, production and distribution, under conditions of pure and monopolistic competition. 2 hours a week.

POLITICS

32. **Introduction to 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.

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: half course.

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: half course.

Honors Courses

Politics 232, 342a and 342b are identical respectively with 32, 42a and 42b, except that additional assignments will be required in the honors courses.

351b. **International Relations:** The problems arising from the absence of world government; economic harmonies and conflicts; Nationalism, Militarism, Imperialism, the causes of war and the efforts to avoid it; diplomacy, arbitration, the World Court, International Law, and the United Nations. 3 hours a week, one term: half course.

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.

462b. **Public Administration:** Social control of business enterprise; a general survey of governmental activities affecting business; the state as entrepreneur and manager; governmental assistance to business; governmental regulation of business in its historical, legal and economic aspects, including recent developments in Canada and elsewhere.
3 hours a week: half course.

SOCIOLOGY

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.

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. 3 hours a week.

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. 3 hours a week.

Honors Courses

Sociology 328, 348, and 449 are identical respectively with 28, 48 and 49, except that additional assignments will be required in the honors courses.

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. Not offered in 1954-1955. 3 hours a week.

ENGINEERING

Consult a separate pamphlet to be obtained from the Registrar's Office.

ENGLISH

University College

Professor C. F. KLINCK (Head of the Department)
Associate Professors A. B. CONRON and M. H. M. MACKINNON.
Assistant Professors W. E. D. ATKINSON, G. E. BUCKLEY, J. W. GRAHAM
Lecturers I. A. MCDONALD, A. E. RAYMOND, J. REIDY, F. STILING
Instructors C. E. SANBORN and R. G. WOODMAN
Part-time Instructor J. R. SCOTT
Graduate Assistants F. ENGLISH and G. SCHULTZ

St. Peter's College

Professor: REV. T. J. MCCARTHY
Lecturer: REV. A. J. DURAND
Instructor: REV. J. J. CARRIGAN

Ursuline College

Professor MOTHER M. ST. JAMES
Instructors: MOTHER MARY AGNES and MOTHER M. ST. CATHERINE

Waterloo College

PROFESSOR FLORA ROY
Associate Professor J. M. CLARK
Lecturer: MRS. U. T. SEYMOUR

Note: All courses in English scheduled for two hours a week may meet for additional hours at the discretion of the instructor.

10. **General Literature and Composition:** 3 hours a week.

20. **General Literature and Composition:** A survey of English Literature, with emphasis on the great writers. Numerous essays and exercises will be required. 3 hours a week.

29. **Public Speaking:** The introductory course.
1 hour a week: half course.

No student will be registered in any of the following courses until he has successfully completed English 20.

32. **Literature of the Nineteenth Century:** 3 hours a week.

33M. **General Literature and Composition:** (for prospective medical students). 2 hours a week.

35. **General Literature and Composition:** 3 hours a week.

36. **Modern British and American Drama:** 3 hours a week.

38. **American and Canadian Literature:** (English-Canadian only). 3 hours a week.

39. **Speech Fundamentals and Voice:** 2 hours a week.

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

44. **General Literature and Composition:** 2 hours a week.

45. **Comparative Literature:** 3 hours a week.

46. **Play Direction:** An introductory course in directing and acting. 2 hours a week.

49. **Recent Literature in English:** 3 hours a week.

Fine Arts Lectures: A survey of the Fine Arts.

Honors Courses

Comprehensive examinations will be held at the end of the fourth year of all courses in English Honors.

250. **Restoration and Eighteenth Century Literature (1660 to 1780).** 2 hours a week.

236. **Modern British and American Drama:** 3 hours a week.

254. **Criticism, Scholarship and Bibliography:** A general introduction to English studies. 2 hours a week.

350. **Literature of the Romantic Revival (1780-1832).** 3 hours a week.

356. **English Drama to 1642:** With particular attention to the plays of Shakespeare. 3 hours a week.

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

358. **American and Canadian Literature:** (English-Canadian only). 3 hours a week.

363. **Elementary Old and Middle English:** Old English grammar and phonology; the phonology of Middle English dialects; translation of representative easy Old and Middle English selections. 2 hours a week.

441. **Creative Writing:** 1 hour a week: half course.

450. **Renaissance Literature, Non-Dramatic (1500-1660).** 3 hours a week.

459. **Recent Literature in English:** 3 hours a week.

460. **Literature of the Victorian Period (1832-1900).** 3 hours a week.

463. **Old and Middle English Literature:** Reading of important works, especially Beowulf, Chaucer and Langland; history of literature from the beginnings to 1400. 2 hours a week.

470. **English Tutorial:** Studies in English language and literature, directed by members of the department. 1 hour a week: half course.

FRENCH (See Romance Languages)

GEOGRAPHY

University College

Professor E. G. PLEVA (Head of the Department)
Lecturer R. W. PACKER
Instructors A. J. BARKER, S. R. BYLES, O. P. LANGTVET
Graduate Assistants R. MCDANIEL, C. F. J. WHEBELL, J. WOODS

Waterloo College

Lecturers A. D. BOGGS, C. T. CRAIG, H. O. J. OVERGAARD

20. **Elements of Geography:** The earth as the home of man; the elements of the physical and cultural landscape with special reference to their world patterns. 2 lectures and 2 hours practical work a week.

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.

30. **Advanced Physical and Cultural Geography:** Studies of the environmental factors, meteorology, climatology, geomorphology, hydrology, vegetation and soils; their interrelationships; techniques of measurement and classification, including air photographs and map projections. 2 lectures and 2 hours practical work a week.

Prerequisite: Geography 20.

35. **World Regional Geography:** A systematic survey of the major natural and political regions of the world. 2 lectures and 2 hours practical work a week.

Prerequisite: Geography 20 or 29, or equivalent.

40. **Problems in Geography:** A survey of historical geography, political geography, and the philosophical foundations of modern geography. 3 lectures a week.

Prerequisites: Any two of Geography 20, 29, 30, 35.

45. **Geography of Canada: The Natural Wealth of Canada and its Conservation:** The geographic basis of human occupance in Canada. Conservation of natural resources. 3 lectures a week.

Prerequisite: Geography 20 or 29, or equivalent.

47. **Historical Geography of Western Civilization:** The role of New World resources in the development of western culture. Not offered, 1954-5. 3 lectures a week.

Prerequisite: Geography 20 or 29, or equivalent.

Honors Courses

Geography 229, 330, 335, 440, 445 and 447 are identical with 29, 30, 35, 40, 45 and 47 respectively. Students who elect honors courses will cover additional material and be held strictly to the University regulations of honors standards.

GEOLOGY

University College

Professor G. H. REAVELY (Head of the Department)
Associate Professor G. G. SUFFEL
Assistant Professors A. DREIMANIS and R. J. UFFEN
Lecturer C. G. WINDER

Waterloo College

Professor B. W. KELLEY and Assistant Professor H. K. ELLENTON

20. **Introductory Course in Geology:** Minerals and rocks; geological processes and their results; structure of the earth; practical application of geology; fossils and their use; an outline of the earth's history. 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 topographical maps. Field trips.
2 lectures, 2 laboratory hours a week.

21. **Geological Science:** A survey of the Geological Sciences; the relation of Geology to the other sciences, and its economic significance, with emphasis on topics of local interest. 2 lectures and 1 demonstration a week.

Honors Courses

251. **Mineralogy:** Crystallography, physical and chemical properties of minerals. The description and study of about 150 common species, with considerable practice in identification, including blowpipe analysis.
1 lecture, 4 laboratory hours a week.

252. **Lithology:** Megascopic descriptions of the common igneous, sedimentary and metamorphic rocks. Practice is given in identification through the study of numerous specimens. 2 hours a week: half course.

256. **Drafting and Surveying:** The principles and techniques of surface and mine surveying with stress on the use of the plane table; precision of measurements and theory of errors; practice on surface and underground surveying. The principles of lettering and drafting and the preparation of simple geologic plans and mine sections.
1 lecture, 5 laboratory hours a week.

263. **Historical Geology:** The significant events in the geologic history of the earth and its inhabitants, combined with a general discussion of the geology of Canada. Laboratory periods will include map work, examination of fossils, and field trips. 2 lectures, 2 laboratory hours a week.

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 in their identification in hand specimen and in thin section. 2 lectures, 3 laboratory hours a week.

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 readings on the theory of ore deposition as well as to the acquisition of the technique of polished section preparation and examination.
1 lecture, 2 laboratory hours a week.

360. **Seminar:** Third year students are required to attend all senior seminars and to give at least one paper. 2 hours a week: half course.

363. **Invertebrate Paleontology:** First half—the study of fossils in biological succession with concentration on classification, morphology and ecology; second half—index fossils and their geologic ranges.

2 lectures, 3 laboratory hours a week.

365. **Precambrian 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 a week: half course.

367. **Glacial and Pleistocene Geology:** Glaciers and their work; glacial and extraglacial deposits, their structure and landscape forms; Pleistocene stratigraphy, especially of eastern North America, and the development of Glacial Lakes; economic aspect of Pleistocene deposits. Laboratory work will consist of field trips, studies of collected materials, map exercises, readings and discussion of reference papers.

1 lecture, 2 laboratory hours a week.

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, with practice in rock identification, particularly in thin section.

2 lectures, 3 laboratory hours a week.

454. **Economic Mineral Deposits:** A study of examples of the principal types of economic mineral deposits, with special reference to Canadian occurrences; 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.

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 interpretative value of various minor structures; relations between structure and topography; earth's structure and mountain building. Laboratory work will include the interpretation of geologic structures from maps. 2 lectures, 2 laboratory hours a week.

458. **Senior Research and Field Report:** A report on geological field work carried on by the student, including the results of laboratory investigation and a study of available literature. If summer field work has not been undertaken, a research problem will be arranged.

460. **Seminar:** Presentation and discussion of papers on various geological subjects; informal discussion of topics of current geological interest.

2 hours a week: half course.

463. **Stratigraphy and Sedimentation:** The principles, with some aspects of paleoecology, demonstrated mainly by a study of Paleozoic and Mesozoic strata in Canada. 2 lectures, 2 laboratory hours a week.

465. **Geophysics:** An introductory course in the various geological problems associated with gravity, magnetism, seismology, radioactivity, and the internal constitution of the earth, with applications to geophysical exploration. 2 lectures, 2 laboratory hours a week.

GERMAN LANGUAGE AND LITERATURE

University College

Professor H. K. KALBFLEISCH (Head of the Department)
Lecturers R. A. ALLEN, A. ROSÉ, S. WEYL

Ursuline College

Professor SUSANNE HILLING
Instructor: MOTHER MARY AGNES

Waterloo College

Assistant Professor K. NABERT
Lecturers: REV. O. W. HEICK and REV. L. H. SCHAUS

General Courses

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

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.

5M. **Elementary Scientific German:** The elements of German grammar with the reading of easy medical German. Offered for medical students. 1 hour a week: half course.

10. **Intermediate German:** The work of Grade XIII (Upper School) or its equivalent is covered. 3 hours a week.
Prerequisite: Grade XII German or German 1.

20. **Advanced German:** Translation from modern literary German, grammar, dictation, conversation. 3 hours a week.
Prerequisite: Grade XIII German or German 10.

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

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

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.
Prerequisite: German 5 or Grade XII German. 2 hours a week.

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

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

45. **Advanced Scientific German:** The reading of scientific works in German. Prescribed for fourth year honors science students.
1 hour a week: half course.
Prerequisite: German 35 or Grade XIII 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.
Prerequisite: Junior Group 2.

291. **Grammar, Conversation, Composition, Phonetics.**
Prerequisite: Junior Group 2. 2 hours a week.

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

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

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

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

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

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

GREEK (See Classics)

HEALTH

University College

Instructor: the University Physician

General Medical Knowledge: Lectures on mental health, communicable diseases and immunization, essential anatomy, physiology, minor and common diseases of the respiratory, cardio-vascular, alimentary, urino-genital and nervous systems; First Aid. Prescribed for all students in their first intramural year.
One hour a week for nine weeks, second term.

Text-books: Diehl, *Elements of Healthful Living.*
Meredith, *The Science of Health.*

HEBREW

University College

Professor R. K. HARRISON

Waterloo College

Lecturer H. N. BREAM

While the courses in Hebrew provide instruction mainly for theological students as a foundation for advanced Semitic studies, any student who desires an acquaintance with the *Old Testament* is at liberty to choose the Hebrew options.

Text-books: A. B. Davidson, *Hebrew Grammar* (24th edition).
R. K. Harrison, *Teach Yourself Hebrew* (English Univ. Press).
S. Bagster, *Pocket Hebrew-English Lexicon.*
Hebrew Bible (British and Foreign Bible Society).

1-10. **Grammar:** Text of *Genesis* 1-3, I *Kings* 17. 5 hours a week.

20. **Grammar and Syntax:** Text of *Obadiah, Jonah, Amos, Isaiah* 1-6, *Haggai.* 3 hours a week.

Prerequisite: Hebrew 1-10.

30. **Principles of Hebrew Poetry:** *Psalms* 1, 16, 23-28, 80-84, 90-95, 121-134, *Proverbs* 1-5, *Job* 38-41; Old Testament archaeology.

Prerequisite: Hebrew 20. 3 hours a week.

40. **Aramaic:** Brown, *Aramaic Methods,* part I and II; exercises, grammar, syntax, pointing; translation of Old Testament Aramaic sections; Old Testament history and religion. 3 hours a week.

Prerequisite: Hebrew 30.

HISTORY

University College

Professor A. G. DORLAND (Head of the Department)

Associate Professors W. BALDERSTON and H. M. THOMAS

Lecturers J. R. W. GWYNNE-TIMOTHY, L. IGNATIEFF, S. F. MAINE, R. E. K. PEMBERTON, J. J. TALMAN

Graduate Assistant DAVID ANDERSON

Huron College

Professor T. R. MILLMAN

Ursuline College

Professor MOTHER M. MERCEDES

Waterloo College

Assistant Professor F. G. W. ADAMS

Lecturers: REV. G. F. DURST and MRS. W. D. EVANS.

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.

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

30. **The Development of Western Civilization and Thought:** A survey of the development of western civilization and thought from the breakdown of the Roman Empire to the Peace Settlement following World War I. This course may not be taken by any student who has credit for 20, 21, 36, 45 or 46. 3 hours a week.

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.

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 Ninteenth 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 constitutions of the Dominions and of the Republics of Ireland and India. 3 hours a week: half course.

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.

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

44. **History of the United States:** The colonial period, the revolution, making 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. 3 hours a week.

Honors Courses

236. **Modern History (1555-1933):** Honors students will be required to do special reading and reports in this course.
Prerequisite: Junior Group 2. 3 lectures and a seminar a week.

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

331. **History of Canada:** A survey from the beginning of the French Regime to the present. 2 lectures and a seminar a week.

333a. **The Development of Self-Government in the British Empire Commonwealth:** For details see History 33a. Honors students will required to do special reading and reports in this course.
3 hours a week, lectures and seminars: half course.

354b. **History of Latin America:** Not offered, 1954-5.
Honors students of History may substitute Russian History 337a or 337b for this course. 3 hours a week, lectures and seminars: half course.

356a. **International Relations and World Problems:** 1918 to the present. Not offered in 1954-5.
3 hours a week, lectures and seminars: half course.
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 lectures and a seminar a week.

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.

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.

HOME ECONOMICS

Ursuline College

Professor MOTHER M. DOMINICA

Associate Professor MOTHER M. ST. DOMINIC

Instructors: MOTHER M. VICTORIA and ISABEL PARK

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

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: half course.

26x. **Physiology:** A lecture course dealing with the structure and functions of the various parts of the human body.
2 hours a week: half course.

30x. **Clothing:** A study of textiles; problems in clothing construction.
1 lecture, 3 laboratory hours a week.

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.

32x. **Foods:** The principles of cookery and food preparation and the scientific theory underlying them. 1 lecture, 3 laboratory hours a week.

33x. **Interior Decoration:** Elements of interior decoration and design. 1 hour a week, half course.
Prerequisite: Home Economics 23x.

34x. **Home Nursing and First Aid:** Care of the sick; emergency treatment; bandaging; symptoms and isolation of disease. Essays and practical problems. 1 hour a week: half course.

40x. **Clothing and Designing:** Art of costume and personal appearance; history of costume; pattern designing; care of fabric; problems in clothing construction. 2 lectures, 3 laboratory hours a week.
Prerequisite: Home Economics 30x.

41x. **Advanced Nutrition:** Nutritional needs during infancy; the pre-school child; the adolescent. Modifications of the normal diet to meet specific dietary needs during diseases. Preparation of foods for these diets.
2 lectures a week, both terms; 2 laboratory hours a week, one term.

42x. **Foods:** Food science and experimental cookery.
1 lecture, 3 laboratory hours a week.
Prerequisite: Home Economics 32x.

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

46x. **Demonstration Techniques:** Meal service.
1 afternoon a week in second term: half course.

47x. **Nutrition:** Seminars and reports on recent findings in nutrition.
Prerequisite: Home Economics 31x. 1 hour a week: half course.

48x. **Institutional Management:** Discussion of equipment; organization and administration of food services; quantity cookery; field projects.
2 lectures a week, 3 laboratory hours one term.
Prerequisite: Home Economics 32x.

ITALIAN

(See Romance Languages)

JOURNALISM

University College

Professor J. L. WILD (Head of the Department)
Assistant Professor ISABEL DINGMAN (MRS.)
Lecturers R. J. CHURCHILL, J. K. ELLIOTT, A. R. FORD, O. MILLER, E. H. SLATER, J. J. TALMAN, C. R. TURNBULL
Assistants W. C. HEINE, W. H. HOGG, N. HULL.

Note: Students should be proficient in typewriting by the beginning of the second year.

20. **Introduction to Journalism:** A survey of the world press from the reader's point of view rather than that of the professional journalist; an introduction to writing for mass communication. 3 hours a week.

Honors Courses

250. **News Writing and Reporting:** The forms and style of journalistic prose; reporting methods; news evaluation. 6 hours a week.

350. **Interpretive News Writing and Reporting:** A study of the problems in reporting public affairs, social, economic and political news; individual instruction will be given in reporting specialized fields. 3 hours a week.

355. **History of Journalism:** A survey of the development of journalism in the British Isles, United States and Canada. 2 hours a week.

360. **Law for Journalists:** Basic principles of the common law with special emphasis on access to news, legal guarantee and limits of freedom of the press; defamation; contempt of court and copyright. 1 hour a week: half course.

365. **Editorial Writing:** Editorial policy; the editorial and the background article; research methods; editorial page feature; the signed column; ethical standards of the press. 1 hour a week: half course.

370. **Pictorial Journalism**: Principles of news photography; picture editing; the photo-story; magazine illustration; layout; engraving processes. Not a course in photography. 2 hours a week.

375. **Feature and Magazine Article Writing**: Feature writing for newspapers; magazine article writing, including a study of marketing and manuscript preparation. 2 hours a week.

400. **Newswriting and Reporting:** For students registered in the Diploma course in Journalism. Writing for mass communication; the forms and style of journalistic prose; reporting methods; news evaluation; interpretive reporting. 9 hours a week.

450. **Newspaper Production:** Newsroom organization; copy editing; page makeup; survey of the mechanical phases of newspaper production. 3 hours a week.

455. **Radio News and Documentary Writing:** Comparative study of newspaper and radio writing and news treatment; preparation of newscasts; documentary news broadcasts; radio interviewing; the actuality broadcast. 3 hours a week.

460. **Foreign News Editing and Reporting:** An intensive study of dispatches and background material from areas prominent in the news. 2 hours a week: half course.

LATIN (See Classics)

LIBRARY SCIENCE

University College

Lecturers: CATHERINE CAMPBELL, OLGA BISHOP, CAROLINE MACKENZIE, J. J. TALMAN

St. Peter's College

Lecturer: REV. A. J. DURAND

Ursuline College

Lecturer: MOTHER M. ROSANNA

Waterloo College

Lecturer: MRS. M. E. LEWIS

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: half course.

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

MATHEMATICS AND ASTRONOMY

University College

Professors G. R. MAGEE (Head of the Department), R. H. COLE, A. WOODS
Assistant Professor G. P. HENDERSON

Ursuline College

Instructor: MOTHER M. ST. DOMINIC

Waterloo College

Assistant Professor H. K. ELLENTON
Lecturer: ALICE METZGER

11. **College Mathematics:** A unified treatment of algebra, analytic geometry, trigonometry. 3 hours a week.

Prerequisite: Grade XII Mathematics.

Text-book: May, *Elementary Analysis* (Wiley).

20. **Principles of Mathematics:** An introduction to university mathematics and some modern points of view in the foundations of mathematics. 3 hours a week.

Prerequisite: Grade XIII Mathematics (any two papers), or equivalent mathematical maturity.

Text-book: Allendoerfer and Oakley, *Principles of Mathematics* (McGraw-Hill).

23b. **Mathematics of Investment:** Interest and discount, short-term instalment buying, annuities-certain, bonds and bond prices, capitalized cost, life annuities, life insurance. 3 hours a week: half course.

Prerequisite: Grade XII Mathematics.

Text-book: Simpson, Pirenian, Crenshaw, *Mathematics of Finance, Third Edition* (Prentice-Hall).

24. **Calculus:** A first course. 3 hours a week.

Prerequisites: Grade XIII Algebra, Geometry, and Trigonometry, or Mathematics 11.

Text-book: Smail, *Calculus* (Appleton-Century).

29. **Introduction to Astronomy and Astronomical Navigation:** Systems of coordinates; identification of stars and constellations; the solar system; the stellar universe; spherical trigonometry and its applications to navigation problems; observations with the bubble-type sextant and with the 10-inch refractor of the Hume Cronyn Observatory. 2 hours a week.

Prerequisite: Plane Trigonometry.

35. **Statistics:** Fundamental concepts of statistics with applications; nature and scope of statistical methods. 2 hours a week.

Text-book: Wilks, *Elementary Statistical Analysis* (Princeton University Press).

Honors Courses

250. **Algebra I:** Determinants and matrices, complex numbers, theory of equations. 2 hours a week.

Prerequisite: Mathematics of Junior Group 1 (page 22).

252. **Analytic Geometry:** First term, the general conic and pencils of conics; second term, geometry of three dimensional space. 3 hours a week.

Prerequisite: Mathematics of Junior Group 1 (page 22).

Text-book: Olmsted, *Solid Analytic Geometry* (Appleton-Century).

254. **Calculus and Differential Equations:** 3 hours a week.

Prerequisite: Mathematics of Junior Group 1 (page 22).

Text-books: Smail, *Calculus* (Appleton-Century); Morris and Brown, *Differential Equations, Revised Edition* (Prentice-Hall).

255a. **Statistics:** Introductory probability and statistics. 3 hours a week: half course.

Prerequisite: Mathematics of Junior Group 1 (page 22).

350. **Algebra II:** Linear algebra and theory of matrices. 2 hours a week.

Text-book: Stoll, *Linear Algebra and Matrix Theory* (McGraw-Hill).

351. **Synthetic Geometry:** Metric and projective geometry of two dimensional space. 2 hours a week.

Text-books: Shively, *An Introduction to Modern Geometry* (Wiley).
Coxeter, *The Real Projective Plane* (McGraw-Hill).

353. **Investment and Finite Differences:** 2 hours a week.

Text-books: Mackenzie, *Interest and Bond Values* (U. of Toronto Press).
Freeman, *Mathematics for Actuarial Students*, Vol. II (Cambridge).

354. **Differential Equations and Calculus:** 3 hours a week.
Text-book: Sokolnikoff, *Advanced Calculus* (McGraw-Hill).

358. **Vector and Tensor Analysis:** Algebra and calculus of vectors, introduction to tensor analysis, applications to metric differential geometry. 2 hours a week.
Text-book: Lass, *Vector and Tensor Analysis* (McGraw-Hill).

359. **Astronomy:** Descriptive and mathematical. 2 hours a week.

363. **Life Contingencies I:** 2 hours a week.
Text-book: Jordan, *Life Contingencies* (Society of Actuaries).

450. **Algebra III:** Theory of numbers; an introduction to some of the concepts of abstract algebra, such as sets, groups, rings, polynomials, fields, and the Galois theory. 2 hours a week.

452. **Analytic Projective Geometry:** 2 hours a week.
Text-book: Maxwell, *Methods of Plane Projective Geometry* (Cambridge).

454. **Partial Differential Equations:** 3 hours a week.

455. **Probability and Statistics:** A continuation of Mathematics 255a. 3 hours a week.
Text-book: Mood, *Introduction to Theory of Statistics.* (McGraw-Hill).

456. **Theory of Functions:** Real and complex variables. 3 hours a week.
Text-book: Churchill, *Introduction to Complex Variables and Applications* (McGraw-Hill).

460. **Combinatorial Topology:** 2 hours a week.

463. **Life Contingencies II:** 2 hours a week.
Text-book: Jordan, *Life Contingencies* (Society of Actuaries).

470. **Foundations of Mathematics:** Historical background and philosophical aspects of mathematics; abstract postulational systems; foundations of geometry, algebra, and analysis. 2 hours a week.
Text-books: Stabler, *Introduction to Mathematical Thought* (Addison-Wesley).
Wilder, *Introduction to Foundations of Mathematics* (Wiley).

MUSIC

University College

Faculty: HARVEY A. ROBB (Head of the Department), GERALD E. COLE, CLIFFORD POOLE, MARGARET PARSONS POOLE, ALFRED ROSÉ

Waterloo College

Lecturer: ULRICH LEUPOLD

Music Options

Three courses in Music permit students of the University to expand their knowledge of music and improve their performance. Application should be made to the Principal of University College to ascertain where these options will be counted in Junior Group 2, in Senior Group B, and in Honors and specialized courses. Substitution for a prescribed subject in any year of an Honors course must have the concurrence of the head of the Department concerned.

Through auditioning, the professor in charge of each course in Music will assess each candidate's prerequisite and outline the nature of the assignments for the year. The subjects presented are theory, history of music and applied music, i.e. lessons in piano, voice or violin, etc. Two of the three subjects must be chosen in order to obtain college credit. Whenever private lessons are involved, tuition fees will be the student's responsibility.

10. **History of Music:** Music in the ancient world, in the early Church, in the Middle Ages, in the Renaissance; the overture to the baroque; the 17th and 18th centuries; Bach and Handel.

Theory, first course: Elementary Rudiments and Harmony: knowledge of major and minor scales, time signatures, intervals, embellishments, primary triads, cadences, phrase and sentence structure as demarcated by cadence. 3 hours a week.

20. **History of Music:** Haydn, Mozart, Beethoven, Schubert, the early Romantic composers, Mendelssohn, Schumann, Berlioz, Chopin and piano music, Liszt, the predecessors and contemporaries of Wagner.

Theory, second course: Harmony, chord connection, primary and secondary triads, realization of figured bass, harmonization of melody, study of two and three-part song forms and sonatina. 3 hours a week.

30. **History of Music:** The later Romantics; Brahms, Wolf, Strauss; César Franck; Bruckner, Mahler; Nationalism in Music; the musical impressionists; Debussy, Ravel; the 20th century.

Theory, third course: Harmony: seventh chords, non-chord tones, simple modulations, study of Sonata-Allegro form. 3 hours a week.

For additional Music Courses, see pages 91, 92-4, 102.

PHILOSOPHY

University College

Professor A. H. JOHNSON (Head of the Department)

Lecturer H. J. JOHNSON

Instructors J. A. BRUCE and W. C. HENRY

Graduate Assistants S. J. MIKOLASKI and M. TUFTS

St. Peter's College and Ursuline College

Professor: Rev. L. A. Wemple

Associate Professors: Rev. A. J. Durand and Mother M. St. Michael

Instructors: Rev. L. J. Flynn, Fev. A. F. Loebach, Rev. W. J. Ring, Rev. M. J. Wildgen.

Waterloo College

Lecturers A. R. Cragg and Rev. O. W. Heick

Huron College

Professor W. T. T. Hallam

Note: In University College, Philosophy 230 is a prerequisite for all Honors Courses in Philosophy except 231; Philosophy 20 or 30 is a prerequisite for all Pass courses in Philosophy except 31, 32, 42.

20. **Philosophy and Human Problems:** This course is concerned with ethical, logical, aesthetic, religious, educational and political types of problems. Its purpose is to help students to understand what is involved in these problems and to appreciate some of the solutions provided by the great thinkers of the past and present. (This course is not to be selected by anyone who is taking or has taken another course in Philosophy). 3 hours a week.

30. **Basic Philosophical Literature:** A critical survey of a selected group of Philosophical classics, ancient and modern. 2 hours a week.

31. **Logic and Ways of Knowing:** First term—Logic: meaning and definition, formal logic, verification of knowledge and scientific method; second term—Ways of Knowing, with particular reference to religion. 2 hours a week.

32. **Philosophical Theory:** Readings in selected philosophical classics and an examination of some of the fundamental ideas in fields other than the natural and social sciences. (This course should not be selected by those who are taking or have taken Philosophy 20 or 30). 2 hours a week.

35. **Aesthetics:** A study of aesthetic theory, criticism and general theory of value. 2 hours a week.

36. **Ancient Philosophy:** A survey of the principal developments from the Presocratics (600 B.C.) to Plotinus (250 A.D.) and of their contributions to our cultural heritage. Primary emphasis will be placed on the critical reading of selected original sources. 2 hours a week.

42. **Introductory Ethics:** A critical inquiry into the possibility and nature of ethical standards, the methods by which they may be known, and their applications to concrete problems of personal and social morality. 2 hours a week.

43. **Philosophy of Religion:** The nature of religion; the growth of religious experience; important types of religious philosophy. 2 hours a week.

47. **Early Modern Philosophy:** A critical examination of basic philosophical literature from the 16th, 17th and 18th centuries. 2 hours a week.

48. **Contemporary Philosophy:** A critical study of the following 20th century philosophers: Dewey, Santayana, Whitehead. There will also be an examination of logical positivism and existentialism. 2 hours a week.

Honors Courses

The following courses are identical with the Pass courses indicated, except that additional assignments will be required: 231 (31), 335 (35), 336, (36), 347, (47), 443, (43), 448 (48).

230. **Basic Philosophical Literature:** An examination of the principal problems and issues, methods and attitudes, theories and solutions, terms and concepts, of philosophy, as exemplified in selected philosophical classics. For Honors students in any department. 2 hours a week.

350. **Philosophical Texts:** An examination of specified source materials in Greek and Modern Philosophy; critical works will also be studied. 2 hours a week.

454. **Principles and Problems of Philosophy:** Philosophical problems, related to the special interests of members of the class, will be discussed. 2 hours a week.

456. **Seminar in Plato and Aristotle.** 2 hours a week.
Prerequisite: Philosophy 336.

457. **Modern Philosophy:** Later modern philosophy with particular emphasis on the philosophy of the 19th century. 2 hours a week.
Prerequisite: Philosophy 347.

462. **Ethics:** A critical study of moral problems and theories. The course will be based on readings selected from the classics of ethical literature from Aristotle to the present. 2 hours a week.

466. **Mediaeval Philosophy:** A survey of the principal currents in philosophy from the breakdown of classical culture to the Renaissance (350 A.D. to 1500). Primary emphasis will be placed on the critical examination of representative works.
Prerequisite: Philosophy 336. 2 hours a week.

PHYSICAL, HEALTH, AND RECREATION EDUCATION

University College

Professor E. F. ZEIGLER (Head of the Department)

Assistant Professors JEAN CARMICHAEL, J. R. FAIRS, K. D. GOWIE, W. J. L'HEUREUX

Instructors MAUREEN BRAY, MRS. ELFRIDA KUKAINIS, M. MCNIE, R. R. ORT, P. E. THOMAS

Part-time Lecturers T. H. COFFEY and W. J. PILLSWORTH

Ursuline College

Instructor HELEN KORRI

Waterloo College

Lecturers CAROLYN MORDEN and C. TOTZKE

10. **Prescribed Program:** An incoming student may be exempted from any activity in which he or she passes a test. Satisfactory work (or the passing of a test) will fulfill requirements in each of the following activities:

(1) Aquatics: swimming, life saving, and water safety.

(2) The Individual Program and Physical Fitness: body mechanics, corrective exercises for strength and endurance.

(3) Leisure Skills: individual and dual games and sports.

(4) Combatives (for men); the Dance (for women), folk, square and ballroom dancing. 2 hours a week: prescribed course.

The Elective Program, which starts for every student at some point in the freshman year, consists of intramural athletics, intercollegiate athletics, and individual recreation.

The intercollegiate sports available are:

(1) For men — football, basketball, hockey, swimming, wrestling, soccer, track and field.

(2) For women — swimming, basketball, badminton, archery, tennis, volleyball.

20, 30, 40. **Elective Program:** For men and women in the second, third and fourth years, respectively.

Hours scheduled by arrangement: half course.

(1) First Aid: Elementary course, second term:

2 hours a week, 8 weeks.

(2) Life Saving and Water Safety: second term, starting early in March. 4 hours a week, 5 weeks.

(3) Individual Physical Education: Classes will be conducted as possible for students who require individual corrective physical education, on recommendation of the University Physician.

(4) Intercollegiate Sports (for men and women): See the list published above. Team practices are generally held in the late afternoon, with contests scheduled on week-ends, insofar as possible.

Honors Courses

251. **Team Games, Individual and Dual Activities:** for men—football, group games, basketball, aquatics, track and field, officiating, volleyball, gymnastics, badminton, handball, squash racquets; for women—archery, track and field, group games, volleyball or basketball, badminton, folk dancing, square and ballroom dancing, swimming, gymnastics.

2 lectures and 6 laboratory hours a week.

258. **History of (and Introduction to) Physical, Health, and Recreation Education:** Development of these three sections of education; their inter-relationship in modern society; their connection with learning; the social signficance of competitive games and sports; contemporary developments through public and private agencies. 2 lectures a week.

266. **Teaching Methods in Physical, Health, and Recreation Education:** Teaching techniques; program and lesson planning; and the development of methods for the selection and organization of materials. 2 lectures a week (laboratory as required).

351. **Team Games, Individual and Dual Activities:** for men—football, track and field, hockey, folk and square dancing, soccer, basketball, aquatics, gymnastics; for women—tennis, golf, group games, volleyball or basketball, folk dancing, modern dancing, swimming, skating.
1 lecture and 4 laboratory hours a week.

352. **Organization and Administration of Physical and Health Education including Athletics:** Staff, curriculum, budget, finance and purchasing, care of equipment, class organization, records, reports and facilities; the scheduling and management of athletic contests.
2 lectures a week.

353. **School Health Education (Methods and Materials):** An approach to intelligent planning for healthful living; the study of personal health from the standpoint of Biology and Psychology; community and institutional public health; methods and materials needed to teach school health. 2 lectures a week.

354. **Functional Human Anatomy:**
1 lecture and 1 laboratory hour a week: half course.

356. **Student Teaching and Seminar:** Group discussion; supervised observation; supervised participation in secondary schools.
1 lecture a week; 2 laboratory hours a week in the second term: half course.

371. **Social and Recreational Games:** For various club and age groups. 1 lecture and 1 laboratory hour a week: half course.

372. **Planning, Construction, and Maintenance of Recreational Facilities:** Relating specifically to playgrounds, parks, play areas, public and private agencies, day camps, and overnight camping units; resources, methods, and materials. 2 lectures a week.

375. **Organization and Supervision of Crafts and Hobbies:** Their recreational and therapeutic values; facilities; audio-visual aids; lectures in craft design; craft activities.
1 lecture a week, field laboratory work.

376. **Supervised Field Work in Recreation:** Field work progressing from directed observation to supervised practice and subsequent independent work, under supervision of the University staff and local directors of approved public and private agencies.
After-hour work; half course.

382. **Organization and Administration of Recreation:**
2 lectures a week.

450. **Principles of Physical, Health, and Recreation Education:** The aims and objectives of education as a basis for formulating the student's professional point of view; the scope of Physical, Health, and Recreation Education; the contributions made by the humanities, natural sciences, and social sciences; the principles and psychological aspects of competition; the functions and competencies of leaders and teachers; professional ethics.
2 lectures a week.

451. **Team Games, Individual and Dual Activities:** for men—football, track and field, sports development exercises, gymnastics, aquatics, basketball, wrestling, baseball, stunts and tumbling; for women—two team sports, specialized training and experience in coaching, two individual or dual sports, and electives. 1 lecture and 4 laboratory hours a week.

453. **Corrective Physical Education (including Care and Prevention of Athletic Injuries):** Essential facts of human anatomy and physiology, as they pertain to corrective exercise; the under-developed or handicapped child; the care and prevention of athletic injuries; practical laboratory experience in clinical centres.
1 lecture, 2 laboratory hours a week.

454. **Physiology of Exercise and Kinesiology:** Trends of investigations of the physiology of physical activity, with implications for physical and health education; the science of bodily movements; the principal types of muscular exercise; analysis of complex movements into their simplest elements. 2 lectures a week (laboratory as necessary).

457. **Tests and Measurements in Physical and Health Education:** The use of test results to aid in program evaluation.
2 lectures a week (demonstrations and laboratory work as necessary).

473. **Activities for Special Groups (including Industrial Recreation):** Recreational activities for pre-school children, adults, the handicapped, the aged; aspects of recreation in industry.
2 lectures a week (laboratory experience as required).

476. **Supervised Field Work in Recreation:**
After-hour work; half course.

479. **Seminar in Current Problems:** Analysis of problems in recreation with application to local situations; public relations and liaison techniques; program aids; professional survey techniques; analysis of program organization; basic problems and trends of recreation. 2 lectures a week.

483. **Camping and Outdoor Education:** Selected administrative details in organized camping, including committee for planning, personnel, budget, sites; buildings, outdoor areas, equipment, publicity, safety and health precautions, insurance, nutrition, and program.
2 lectures a week (laboratory hours as necessary).

PHYSICS

University College

Professors A. D. MISENER (Head of the Department), R. L. ALLEN, R. C. DEARLE (Research Professor)

Associate Professor A. W. DURNFORD

Assistant Professors J. H. BLACKWELL, E. BRANNEN, R. W. NICHOLLS, E. H. TULL

Preceptor C. M. CARMICHAEL

Lecturer R. J. UFFEN

Research Associates R. E. DAVIS, PETER FRASER, W. R. JARMAIN, R. G. TURNER

Research Fellows R. H. ADLINGTON, C. CROWE, H. FERGUSON, J. A. FULFORD, F. H. HEDGCOCK, F. HUNT, C. E. MONTGOMERY, D. PLEITER, T. W. W. STEWART, J. D. TALMAN, L. WALLACE, B. YOUNG

Demonstrators LOUISE ALLEN and R. S. CASS

Waterloo College

Professor B. W. KELLEY and Assistant Professor H. K. ELLENTON

20. **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.

21. **Physical Science:** Lectures and lecture demonstrations 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. Optional in Junior Group 2 and in Senor Group B. 2 lectures, 2 laboratory hours a week.

35. **General Physics:** An extension of Physics 20; the laws and principles of light, sound, electricity, magnetism and thermionics.

2 lectures a week, both terms; 3 laboratory hours a week, first term.

Honors Courses

204. **General Physics:** Elementary Electricity and Optics including Elementary Geometrical and Physical Optics, current electricity, static electricity, magnetism and electro magnetism.

2 lectures, 3 laboratory hours a week.

204M. **General Physics:** An extension of Physics 20, prescribed for the students who have been selected by the Admissions Committee of the

Faculty of Medicine for admission to the second year premedical course; the laws and principles of light, sound, electricity, magnetism and thermionics.
2 lectures, 3 laboratory hours a week, first term:
2 lectures a week, second term.

250. **Theoretical Physics I:** An introduction to vector calculus, with applications to mechanics; the theory of vibrations and waves; dimensional analysis. 2 lectures a week.

251b. **Theory of Measurements:** Lectures and practical work on methods of treating data obtained in the laboratory, so as to obtain the greatest amount of useful information. The course includes a discussion of the basic ideas of probability, of chance distributions, and of precision indexes. 3 lectures and laboratory hours a week: half course.

254. **Light and Sound:** Elementary geometrical and physical optics, and elementary sound. 2 lectures, 3 laboratory hours a week.

255. **Electricity and Magnetism:** The principles of electricity and magnetism, including an introduction to electrical measurements.
2 lectures, 3 laboratory hours a week.

350. **Dynamics and Properties of Matter:** Some aspects of properties of matter, damped and perturbed harmonic motion, central orbits, and the theory and application of the Lagrangian and Hamiltonian equations of motion. 3 lectures a week.

351. **Theoretical Physics II:** The Harmonic Analysis of Waveforms. The techniques of solution in various coordinate systems, of the partial differential equations commonly met in mathematical physics, together with an introduction to the eigenvalue approach to boundary value problems.
3 lectures a week.

353. **Advanced Heat and Thermodynamics:** A treatment of the laws of thermodynamics, heat engines, reversible cycles, change of state, radiation, kinetic theory of gases, with applications to various fields of physics, including surface tension and elasticity. 2 lectures a week.

356. **Electronics:** Similar to 376, with the addition of laboratory work throughout the year. 2 lectures a week.

359. **Modern Experimental Physics:** Laboratory work designed to give training in the techniques of the advanced physics laboratory.
9 laboratory hours a week: double course.

366. **Electronics:** Similar to 376 but with the addition of one term of laboratory work. 2 lectures a week, both terms,
3 laboratory hours a week, second term.

376. **Electronics:** A treatment of the underlying principles of the emission of electrons and of their behaviour in high vacuum tubes, gaseous tubes, cathode ray tubes and other devices; an analysis of rectifier circuits and of amplifiers. 2 lectures a week.

377. **Circuit Analysis:** An introduction to electric circuit analysis commencing with simple transient problems but chiefly concerned with the steady-state A.C. method. Impedance and admittance concepts, vector diagrams, resonance, systematic analysis of multi-branch networks and the specialised results of linear 4-terminal systems are considered in detail. Emphasis throughout is placed on communications rather than power aspects. 3 lectures a week.

379. **Laboratory:** Experiments on the elementary theory of vacuum tubes, the transient analysis of simple circuits, and elementary A.C. phenomena. Electrical measurements at audio and radio-frequencies. Design, and construction of power-supplies, audio amplifiers, attenuators and filters. Solution, by students in class, of problems arising from Physics 376 and 377. 9 laboratory hours a week: double course.

454. **Advanced Optics:** An advanced treatment of theoretical and applied optics. 2 lectures a week.

455. **Theoretical Physics III:** A mathematical treatment of electrostatics and electromagnetism, with special emphasis on field theory and electromagnetic waves. 2 lectures a week.

456. **Atomic Physics.** A course designed to give a thorough knowledge of the fundamental particles and of the experimental basis for modern concepts of atomic and nuclear structure. 2 lectures a week.

457. **Introductory Quantum Mechanics:** The course stresses the physical ideas behind the wave-particle duality and probability interpretation, thus leading to Schroedinger's wave equation and its solution for tunnelling phenomena, Hydrogen atom, and other problems. 2 lectures a week.

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: half course.

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. 12 laboratory hours a week: double course.

476. **Circuit Analysis and Applied Electronics:** (1) Use of operational methods of obtaining the complete (including transient) solution to electrical and analogous mechanical circuit problems, with emphasis on the direct and inverse Laplace Transformations; (2) a study of the motion of electrons in electric and magnetic fields, with applications to devices such as the klystron, magnetron, ion accelerator, electron microscope. 2 lectures a week.

477. **Communication Circuits:** A study of the principles and applications of oscillatory circuits, modulators, detectors, etc., together with an analysis of transmission line and antenna design. 2 lectures a week.

479. **Laboratory:** Designed as an accompaniment to the lecture work of the fourth year Radio Physics Option. 12 hours a week: double course.

PSYCHOLOGY

University College

Professor R. B. LIDDY (Head of the Department)
Associate Professors G. H. TURNER and LEOLA NEAL
Assistant Professor MARY WRIGHT
Lecturers H. J. BREEN and K. G. FERGUSON
Instructor J. A. WAINWRIGHT
Graduate Assistant ADA GAY

St. Peter's College and Ursuline College

Associate Professor MOTHER M. ST. MICHAEL
Instructors: REV. W. J. RING and REV. M. J. WILDGEN

Waterloo College

Lecturers: REV. G. F. DURST, W. HUNSBERGER, H. W. WRIGHT

In University College, Psychology 20 or 30 is ordinarily 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.

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.

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.

35S. Similar to Psychology 35, but abbreviated and condensed. Half course.

36. **Genetic Psychology**: Child development; native equipment; learning; character and personality development; child management and family relationships. 2 hours a week.

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.

39. **Problems in Clinical Psychology**: The clinical approach to mental hygiene; the development of Mental Health Clinics; mental testing; behavioral problems; factors promoting mental health. 2 hours a week.

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

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.

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.

Honors Courses

Offered in University College only.

The following courses are identical with the Pass courses indicated, except that additional assignments will be required: 235 (35), 236 (36), 338 (38), 339 (39), 349 (49), 446 (46), 448 (48).

234. **Basic Problems in Psychology:** A critical examination of the more persistent problems in the history of psychology. 2 hours a week.

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.

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

444. **Modern Systems of Psychology:** A critical examination of some modern systems of psychology: Structuralism, Functionalism, Behaviorism, Purposivism, Gestalt Psychology, Psychoanalysis. 2 hours a week.

459. **Research Problems:** A seminar course in which students will select topics for special investigation. 3 hours a week.

For **RELIGIOUS KNOWLEDGE** courses, see the affiliated colleges, pp. 91-2, 97, 99-100, 102.

ROMANCE LANGUAGES

University College

Professors R. W. TORRENS (Head of the Department), H. E. JENKIN, DOROTHY TURVILLE

Associate Professors W. E. COLLIN and FRANCES MONTGOMERY

Lecturers L. J. S. METFORD and R. N. SHERVILL

Instructor T. BARTROLI.

St. Peter's College

Professor: Rev. W. F. Simpson

Ursuline College

Professor Mother Marie*
Associate Professor Mother M. Rosanna
Lecturer Susanne Hilling

Waterloo College

Associate Professor W. D. Evans
Assistant Professors Jean Cross and Mrs. D. Stewart

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.

Prerequisite: Grade XII French.

20. **Advanced French:** Grammar, translation, free composition, oral practice. 3 hours a week.

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. 2 hours a week: half course.

30. **Outline of French Literature:** Origins to 1700 A.D.

Prerequisite: French 20. 3 hours a week.

33. **Commercial French:** Business correspondence, simple transactions, selected reading. For students in Secretarial Science, optional in Business Administration. Given in University College only.

Prerequsite: French 20. 3 hours a week.

40. **Outline of French Literature:** From 1700 A.D. to the present time. 3 hours a week.

Prerequisite: French 30.

43. **Commercial French:** Advanced transactions, reading. For students in Secretarial Science. Given in University College only.

Prerequisite: French 33. 3 hours a week.

45. **Scientific French:** The reading of Scientific French from textbooks and journals, supplemented by individual reading in the special field of study of each student. 1 hour a week: half course.

Prerequisite: French 10 or Grade XIII French.

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* On leave 1953-54.

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.

Prerequisite: French 20.

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. 3 hours a week.

Prerequisite: Junior Group 2.

271. **Prose Composition, Phonetics.**

Prerequisite: Junior Group 2. 1 hour a week: half course.

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 2. 2 hours a week.

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.

Prerequisite: French 270.

381. **Prose Composition, Phonetics and Conversation.**

Prerequisite: French 271. 3 hours a week.

An equivalent course is given also at Trois-Pistoles, P.Q., during July and August. For full details see special bulletin.

450a. **Contemporary French Literature:** Study of some typical examples of the novel and drama of the twentieth century; reading, lectures, reports. 3 hours a week: half course.

Prerequisite: French 380.

450b. **Mediaeval French:** Reading of Old French, historical grammar, history of mediaeval literature; reading, lectures.

Prerequisite: French 380. 3 hours a week: half course.

490. **The Literature of the Nineteenth Century:** Lectures, reading and reports. 3 hours a week.

Prerequisite: French 380.

491. **Advanced Composition, Grammar and Phonetics.**

Prerequisite: French 381. 3 hours a week.

An equivalent course is given also at Trois-Pistoles, P.Q., during July and August. For full details see special bulletin.

ITALIAN

1. **Elementary Italian:** Grammar, oral practice, translation of simple texts. 3 hours a week.

10. **Intermediate Italian:** Review of grammar, translation of modern Italian, oral practice. 3 hours a week.

Prerequisite: Italian 1 or its equivalent.

20. **Outline of Italian Literature and Civilization:** Composition, translation, history of literature. 3 hours a week.

Prerequisite: Italian 10.

SPANISH

1-10. **Elementary Spanish:** Grammar, translation, dictation, oral practice. 5 hours a week.

20. **Advanced Spanish:** Grammar review, composition, translation, oral practice. 3 hours a week.

Prerequisite: Spanish 1-10 or its equivalent.

22. **Conversation:** Systematic oral practice for developing fluency in speaking Spanish. 2 hours a week: half course.

Prerequisite: Spanish 1-10.

45. **Scientific Spanish:** The reading of Scientific Spanish from journals, supplemented by individual reading in the special field of study of each student. Not offered, 1954-55. 1 hour a week: half course.

Prerequisite: Spanish 1-10 or Grade XIII Spanish.

Note: Spanish 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.

Prerequisite: Spanish 20.

231. **Phonetics, Prose Composition, Conversation.**

Prerequisite: Spanish 20. 2 hours a week.

250. **Latin-American Civilization:** An historical survey of Latin-American Culture; the modern Spanish-American novel; lectures, reading, reports. 2 hours a week.

Prerequisite: Spanish 20.

340. **Modern and Contemporary Spanish Novel:** Lectures, reading, discussion, reports. Not offered in 1954-5. 2 hours a week.

Prerequisite: Spanish 20.

341. **Commercial and Industrial Spanish:** Grammar, advanced composition, reading. 2 hours a week.

Prerequisite: Spanish 231.

360. **Spanish Civilization:** An historical survey of Spanish and Spanish-American culture; the modern Spanish-American novel; lectures, reading, reports. Not offered in 1954-55. 2 hours a week.

Prerequisite: Spanish 20.

450. **Spanish Lyric Poetry:** Lectures, reading, discussion. Not offered in 1954-5. 2 hours a week.

Prerequisites: Spanish 340 and 360.

451. **Mediaeval Spanish:** Study of phonology, morphology, reading of Old Spanish, history of mediaeval literature; reading, lectures, reports.

Prerequisite: Spanish 341. 3 hours a week.

460. **Spanish Ballad, Picaresque Novel, Cervantes, Drama of the Golden Age:** Lectures, reading, reports. 3 hours a week.

Prerequisites: Spanish 340 and 360.

RUSSIAN STUDIES

University College

Associate Professor L. IGNATIEFF (Head of the Department)

1. **Elementary Russian:** A beginning course; pronunciation, grammar, dictation, translation, oral practice. 3 hours a week.

10. **Intermediate Russian:** Grammar, dictation, translation, composition and conversation. 3 hours a week.

Prerequisite: Russian 1.

20. **Advanced Russian:** Special problems of grammar, translation, conversation, composition. 3 hours a week.

Prerequisite: Russian 10.

29. **A Survey of Russian Literature:** for those without a reading knowledge of Russian. 1 hour a week: half course.

30. **Outline of Russian Literature:** Nineteenth and Twentieth centuries. 3 hours a week.

Prerequisite: Russian 20.

37. **Russia—U.S.S.R.**

(i) Economic, political and social developments from the Kiev period until 1905.

(ii) Russia in revolution; economic, political and social change in the U.S.S.R.

Students of Honors History may substitute Russian 337a and 337b for Geography 335, if they are not interested in a Type A (Teacher's) Certificate

in History, or may substitute either Russian 337a or 337b for History 354b, if Type A qualification in History is desired. 3 hours a week.

45. **Scientific Russian:** The reading of scientific texts and articles in Russian. For Honors Science Students. 1 hour a week: half course.

Prerequisite: Russian 10.

SECRETARIAL SCIENCE

University College

Professor MARY GILLESPIE (Head of the Department)
Assistant Professor ELAINE CHAPMAN (MRS. C. B.)
Instructor ROMA WALLER (MRS.)
Assistant: MABEL 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.

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.

Prerequisites: Secretarial Science 28-29. 3 hours a week: half course.

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.

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: double course.

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.

Prerequisites: Secretarial Science 38, 39.

For **SPANISH** see Romance Languages.

ZOOLOGY

University College

Professors A. W. A. BROWN (Head of the Department) and HELEN BATTLE

Associate Professors W. W. JUDD and D. M. SCOTT

Assistant Professor R. H. STINSON

Honorary Lecturers W. CHEFURKA, R. W. FISHER, H. A. U. MONRO, B. N. SMALLMAN, L. S. WOLFE

Graduate Demonstrators W. F. BLACK, B. E. BROWN, ELIZABETH SCRIBNER, BARBARA SHAW

Waterloo College

Professor B. W. KELLEY and Assistant Professor H. K. ELLENTON

11bN. **Introductory Zoology:** The principles of animal biology as illustrated by the study of certain typical forms; for students in Nursing and Home Economics.

2 lectures, 3 laboratory hours a week, one term: half course.

20. **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.

21. **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. This course is illustrated by examples from the botanical as well as the zoological field.

Open to Junior and Senior Groups. Students obtaining 60 per cent. in this course may select options for further study in Botany and Zoology.

2 lectures and 2 laboratory hours a week.

23. **Vertebrate Natural History:** To be given in alternate years, next in 1954-55, as Zoology 453. 2 lectures a week.

Prerequisite: Zoology 21.

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: half course.

24. **Mammalian Zoology:** The anatomy (first term) and physiology (second term) of the mammals. For students in Senior Group A and the Nursing, Home Economics (first term only), and Physical Education courses. 2 lectures and 2 laboratory hours a week.

Prerequisite: Zoology 11N or 21.

25. **Principles of Genetics:** An introduction to Mendelian inheritance, chromosome and gene theory, and the genetic conception of species.

2 lectures a week.

Prerequisite: Zoology 20, or Biological Science 21 (60%).

34. **Vertebrate Histology:** An introduction to the miscroscopic structure and development of tissues and organs.
Prerequisite: Zoology 24. 1 lecture, 3 laboratory hours a week.

41. **Entomology:** The biology and economic importance of the insects, and in addition the spiders, mites, crustacea and other arthropods.
Prerequisite: Zoology 20. 1 lecture and 2 laboratory hours a week.

Honors Courses

200M. **Comparative Vertebrate Zoology and Introductory Embryology:** Comparative structure and function of vertebrate organ systems; introductory embryology. For prospective Medical students.
2 lectures, 3 laboratory hours a week.

250. **Invertebrate Zoology:** The anatomy and biology of representative invertebrate animals and the general classification of the group.
Prerequisite: Zoology 20. 1 lecture, 3 laboratory hours a week.

347. **History of Biology:** The history of discoveries in biology and the development of biological thought. 2 lectures a week.

350. **Comparative Vertebrate Zoology:** The biology, origin, and evolution of the classes of vertebrates; an introduction to some principles of evolution.
Prerequisite: Zoology 250. 2 lectures, 3 laboratory hours a week.

354. **Vertebrate Histology:** An introduction to the miscroscopic structure and development of vertebrate tissues and organs.
1 lecture and 3 laboratory hours a week.

360b. **Entomology:** The biology and economic importance of the insects, and in addition the spiders, mites, crustacea and other arthropods.
2 lectures and 4 laboratory hours a week: second term.

452. **Comparative Physiology:** A comparison of the function of the organs and organ systems in selected invertebrate and vertebrate types.
Prerequisite: Zoology 250. 1 lecture and 2 laboratory hours a week.

453. **Animal Ecology:** Effects of environmental factors; distribution of animals; animal communities; population dynamics; variation, adaptation, and evolution. 2 lectures a week.

454. **Embryology:** Principles of development as illustrated by selected invertebrate and vertebrate types.
Prerequisite: Zoology 354. 1 lecture and 3 laboratory hours a week.

455. **Principles of Genetics:** The principles of Mendelian genetics and the chromosome theory, illustrated by lectures and the practical performance of simple breeding experiments. 2 lectures a week.
Prerequisite: Zoology 350.

456. **Laboratory Technique:** A practical course in standard laboratory procedures, including microtechnique, photomicrography, and preparation of illustrations. 3 laboratory hours a week: half course.

460. **Insect Taxonomy:** The principles and historical development of insect taxonomy, and the classification of specimens by means of keys and monographs. 3 laboratory hours a week: half course.

462. **Cellular Physiology:** A study of general physical and chemical principles involved in the function of the animal cell.

Prerequisite: Zoology 354. 1 lecture and 2 laboratory hours a week.

463. **Biological Field Studies:** An obligatory course of study of living organisms in their field environment. The student should be prepared to report in September one week in advance of registration, and to meet part of his expenses for travel and subsistence.

470. **Vertebrate Taxonomy:** Classification and distribution of vertebrates, and the study of Canadian vertebrates in the laboratory.

1 lecture and 2 laboratory hours a week.

OPTIONS IN COURSE FOR TEACHERS

A "T" course is available only in, and counts for graduation only in, the Course for Teachers. An "S" course is offered only in the Summer Session, and is acceptable in either the General or the Teachers' Course.

Art

20T. **History of Early Art:** Design and lettering, drawing and sketching. Summer School only. 11 hours a week: half course.

30T. **History of Mediaeval and Modern Art:** Drawing, sketching and painting. Summer School only. 11 hours a week: half course.

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: half course.

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: half course.

Educational Counselling

20T. **Principles and Applications:** Summer School only.

5 hours a week: half course.

30T. Continuation of 20T which is a prerequisite. Summer School only. 5 hours a week: half course.

English

26T. **Reading:** To improve expression and comprehension, to increase reading speeds. Summer School only. 5 hours a week: half course.

29S. **Speech Correction:** Offered in Summer School only. 5 hours a week: half course.

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: half course.

Prerequisite: English 20.

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: half course.

36S. **Dramatics:** The mechanics of play production. Offered in the Summer School only. 11 hours a week: half course.

39S. **Clinical Methods in Speech Correction.** Offered in Summer School only. 7 hours a week of lectures and clinics: half course.

46S. **Dramatics:** Advanced course in play-production. Offered in the Summer School only.

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: half course.

Zoology

23S. **Biological Field-Studies:** Summer School only. 11 hours a week: half course.

ALMA COLLEGE

(St. Thomas, Ontario)

(Founded in 1877: affiliated in 1925)

President

THE REVEREND P. S. DOBSON, M.A., D.D., LL.D.

Principal

MRS. STEELE SIFTON, B.A., B.Ed.

Registrar

HARRIET JOLLIFFE, A.A.C.M.

For Officers of Instruction see pp. 115-125.

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 requirement as set forth on p. 12, and offers them a two-year course in Home Ecomomics leading to a diploma in Home Economics or the first two years of the Home Ecomics Course outlined on page 25.

Home Economics

(Diploma Course)

For descriptions of the subjects listed, see the University College section.

First Year

Subjects	*Subjects*
English 10, 29	Psychology 20 or Religious Knowledge 20
Chemistry 11N	Physical Education 10
Home Economics 25x, 26x, 30x, 32x	Music, or Art, or Applied Art, or Modern Language (10)

Second Year

Botany 36b	English 20
Chemistry 32a	Home Economics 33x, 34x, 40x, 42x
Economics 20	Music, or Art, or Applied Art, or Modern Language (20)

HURON COLLEGE

(London, Ontario)

(Founded in 1863)

Principal and Acting Registrar

THE REVEREND W. R. COLEMAN, M.A., D.D.

For Officers of Instruction, see pp. 115-125.

For the Pre-Theological General Course for students under 21 years of age, see p. 24. The following course is offered jointly by Huron and University Colleges.

GENERAL COURSE WITH THEOLOGICAL OPTIONS

Requirements for Admission: Secondary School Graduation Diploma (page 12).

This course leads to the Degree of Bachelor in Arts from the University of Western Ontario. It is available to students *over twenty-one years of age.* The subjects of the first year of Theology are distributed through the four years in Arts. Upon the successful completion of this course, candidates will be permitted to complete the studies for the Title of L.Th. in two years.

The following course is available to any student of the University who is desirous of taking advantage of the Theological Options offered by Huron College.

First Year

Subjects	*Subjects*
English 10	Geology 21 or Zoology 21
Economics 20	Church Music 10x
Greek 1	Liturgics 10x
History 30	Library Science
Public Speaking 29x	Physical Education
	Health Lectures

Second Year

English 20
Greek 10
History 31
Philosophy 20 or 30
Psychology 20
Religious Education 40x

Third Year

English 32 or 36 or 38
Greek 35x
Philosophy 36 or 31
Psychology 39 or 36
Church History 40x
Philosophy of Religion 40x

Fourth Year

English 35 or 44 or 49
Philosophy 47 or 42
Psychology 48 or 49
Old Testament 40x
New Testament 40x
Systematic Theology 40x

The requirements for the Licentiate in Theology may be met by completing successfully the last two years of Course B (in Huron College) after the B.A. with Theological Options.

Biblical Greek

Professor R. K. HARRISON

35x. **An Introduction to Biblical Greek:** Selected passages from the Old Testament (Septuagint) and from the New Testament. 2 hours a week.

Church History

Professor T. R. MILLMAN

Lecturer: DR. A. H. CROWFOOT

40x. **General and English Church History:** The general Church History course extends from primitive Christianity to the pontificate of Gregory VII in the eleventh century. English Church history covers the period to the Norman Conquest. 2 hours a week.

Church Music

Lecturer: MR. ANSDEL.

10x. **Introduction to Church Music:** The history and principles of Church Music. A study of ideals in music for worship.
1 hour a week: half course.

Liturgics

Professor W. T. T. HALLAM

10x. **Introduction to Christian Worship:** The genius of Christian worship and its forms. The use of the Book of Common Prayer.
1 hour a week, first term: half course.

New Testament

Professor W. T. T. HALLAM

40x. **New Testament History and Exegesis:** A study of the political, social and religious environment of primitive Christianity with special reference to the influence of Graeco-Roman and Jewish ideas. The exegesis of the Synoptic Gospels. 3 hours a week.

Old Testament

Professor R. K. HARRISON

40x. **Old Testament History and Exegesis:** A survey of the history of Israel. A critical, historical and exegetical study of the Pentateuch, Joshua and Judges. 2 hours a week.

Philosophy of Religion

Professor W. R. COLEMAN

40x. **The Nature and Validity of Religion**: The phenomenology of the religious consciousness. Philosophical theories concerning the nature of religion. The comparative study of religions. Theories of religion as illusion. History of modern naturalistic theories of knowledge. A critique of naturalism. Towards a Christian apologetic. 2 hours a week.

Public Speaking

Lecturer ALICE GRAVES

29x. **The Principles of Public Speaking**: Assignments will be given in the selection, arrangement and delivery of speeches.

1 hour a week: half course.

Religious Education

Lecturer to be appointed

40x. **Philosophy and Methods of Religious Education**: 3 hours a week.

Systematic Theology

Professor W. R. COLEMAN

Lecturer: DR. R. P. D. HURFORD

40x. **Systematic Theology**: Prolegomenon to Systematic Theology. Reason and Revelation, the Christian doctrine of God and man. 3 hours a week.

MUSIC TEACHERS' COLLEGE

(London, Ontario)

(Founded and affiliated in 1945)

Principal

HARVEY ROBB

Registrar

MARJORIE THOMAS, B.A.

For Officers of Instruction see pp. 115-125.

GENERAL COURSE WITH MUSIC OPTIONS

(leading to the degree B.A.)

Requirements for Admission: Grade XII (Secondary School Graduation, General Course with three options, see p. 12 of the Arts and Science Announcements), and satisfactory results in audition tests.

Notes:

(1) This course offers two options: Music C or Music T. Music C is a performer's course, while Music T is a pedagogy course for private teachers and for teachers of music in the elementary and secondary schools. Students in Music T will major in instrumental or vocal performance or theory and will take, in addition, a secondary applied music subject. Music T will consist also of lectures in pedagogy, repertoire, choral conducting, teaching materials and methods. Students in Music C will stress performance and will have more practice periods and correspondingly less work in pedagogy than students in Music T.

(2) The students who specialize in instrumental music will take at least two foreign languages; those who specialize in vocal music will take three foreign languages.

(3) As this course is a combination of Arts subjects and Music, it is conceivable that a student might have finished the required Arts subjects without reaching the required standard in the Music courses. In such case, the required standard in music may be attained extramurally under the guidance of the College.

(4) Both courses satisfy the academic requirements for admission to the Type B (High School Assistant) Certificate of the Department of Education of Ontario. Those students who hold, in addition to the degree of Bachelor of Arts, the diploma of Music Graduate in Pedagogy (Mus. G. Paed.) will be admitted to the High School Assistants' Course, Type A, in Vocal Music, at the Ontario College of Education. Those students who do not hold this diploma will be admitted if they make application to take the Supplementary Music Option at the Ontario College of Education, to the Elementary Vocal Option, the Elementary Instrumental Option, or both, if the instructor deems them qualified for such admission.

First Year

Subjects	*Subjects*
English 10, 29	Library Science
French 10	Music 15C or 15T
Latin 10 or Math. 11 or Music* or any two of Math. 10, 12, 18	Physical Education

Second Year

Requirements for Admission: Satisfactory results in audition tests (for new students) and first year or Grade XIII standing in English, French, and one of: Latin, Mathematics, Music*.

English 20	Italian 1 (prescribed for vocal students)
French 20	Music 25C or 25T
German 1	

Third Year

English 32	History 36
French 30	Italian 10 (prescribed for vocal students)
German 10	Music 35C or 35T

Fourth Year

English 36	Music 45C or 45T
French 40	Economics 28 or 32 or 42 or Philosophy 30 or Psychology 20 or Italian 20
German 20	

Text-books: Western Ontario Conservatory of Music, *Book of Reference and Texts.*
Kitson, *Harmony and Counterpoint.*
Colles, *Growth of Music.*

MUSIC

15T.* **Piano:** Pedagogy—piano technique; teaching repertoire—beginners and Grades I, III, V, VII; practice teaching; repertoire—demonstrations and discussions; private lessons; development, through the Studio Club, of critical faculties and playing experience.

Voice: Vocal production and its fundamental laws; practical applications; simple songs in English; Italian diction applied to singing; simple Italian repertoire.

Harmony: Basic chord connections through elementary modulations (2 lectures a week); aural training in Solfege (2 laboratory periods a week). Class presentation gives training in teaching methods.

25T.** **Piano:** Teaching repertoire — Grades II, IV, VI, VIII; an extension of Music 15T in practice teaching, repertoire, private lessons, and Studio Club.

*Grade VIII, Practical, and Grade II, Theory; or Grade IV, Theory.
**For courses in the History of Music, see Music 10, 20, 30, page 70.

Voice: A continuation of technical elementary practice, with the use of increasingly difficult material; emphasis on sight singing; introduction to repertoire study in French; French diction applied to singing; study of operatic numbers; recitative singing and introduction to Oratorio pieces; participation in the chorus of the Opera Workshop.

Harmony: A continuation of Music 15T through augmented chords; simple composition (2 lectures a week); aural training in Solfege (2 laboratory periods a week).

35T.** **Piano:** A continuation of assigned parts of Music 25T; private lessons; recital performance; concerto performance with orchestra; ensemble playing; Studio Club.

Voice: Development of technical prowess; increasing emphasis on fluency and tone modulation; reading of modern English songs; beginning of the study of German Lieder; German diction applied to singing; study of some operatic repertoire; participation in performances of the Opera Workshop, possibly including small parts or ensemble work.

Counterpoint: Two-part through free three-part; analysis of contrapuntal compositions, including Fugue (2 lectures a week).

45T.** **Piano:** Private lessons; Studio Club.

Voice: Difficult technical studies and exercises; memorized repertoire of songs in the original languages by Schubert, Schumann, Brahms, Wolf, Strauss and Mahler; Debussy, Faure, Duparc; modern repertoire in English; operatic arias and ensembles; participation in performances of the Opera Workshop, possibly in a principal role, in any language required.

Form: Song forms through Sonata-Allegro. (2 lectures a week, first term).

Harmonic Analysis: Classic and romantic compositions, with emphasis on the increasing chromaticism of the late 19th and early 20th centuries. (2 lectures a week, second term). Prerequisite: the permission of the Principal.

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.

Vice-Rector and Registrar

REV. T. J. MCCARTHY, M.A., S.T.D.

For Officers of Instruction see pp. 115-125.

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.)

**For courses in the History of Music, see Music 10, 20, 30, page 70.

First Year

One year's work in either Junior Group. (Minimum: six courses.)

Admission to the Sophomore Year in Honors Philosophy is subject to approval by the Registrar and the Department of Philosophy.

Second Year

Subjects	*Subjects*
English 20	At least one course of options approved by the Registrar and the Dept. of Philosophy
Philosophy 250x, 251x, 257x, 260x	
A second year foreign language	

Third Year

English 32 or 36 or 38	At least one course of options approved by the Registrar and the Dept. of Philosophy
Philosophy 351x, 352x, 357x, 358x	

Fourth Year

English 32 or 36 or 38 or 49 (one not previously chosen)	At least one course of options approved by the Registrar and the Dept. of Philosophy
Philosophy 450x, 451x, 452x, 457x	

Note: for description of English courses, see the 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.

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.

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.

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.

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 proposition. Reasoning: deduction and induction; the rules, modes, and figures of syllogisms; fallacies. 2 hours a week.

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.

260x. **Natural Philosophy:** An introduction to Aristotelian philosophy by a close study of the *De Principiis Naturae* of St. Thomas. The aim of the course is to show how the mind is led, from the study of motion in general and its principles, to natural motion, the four causes and the problem of chance and fortune. Attention will also be given to Substance and Accident, the primary accident of Quantity, and finally to the main divisions of the sciences and the interrelation of philosophy and experimental science. 2 hours a week.

351x. **Metaphysics: Epistemology and Ontology:** (a) Problems of Knowledge; the nature and the existence of certain truth which is objective and based on evidence; the objective reality of sensation and of intellectual processes; the value of authority in obtaining knowledge; (b) problems of Being: essence and existence; the transcendental and the universal properties of Being: substantial and accidental being; being in its causes and in its effects; the first principles and the analogy of being. 3 hours a week.

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.

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.

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.

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.

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.

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.

457x. **Modern Philosophy:** The history of philosophy from the Renaissance to the present day. 3 hours a week.

Religious Knowledge Courses

Professor RT. REV. A. P. 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: half course.

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.

200x. **Christian Doctrine:** Lectures, prescribed reading and essays. God, the Sanctifier; the Sacramental System; the Last Things. 1 hour a week: half course.

201x. **Church History:** Lectures, prescribed reading and essays. The Reformation Period and Modern Church History. 2 hours a week.

URSULINE COLLEGE

(London, Ontario)

(Affiliated in 1919)

Dean

MOTHER M. ST. JAMES, M.A.

Registrar

MOTHER M. IGNATIUS LOYOLA, M.A.

For Officers of Instruction see pp. 115-125.

All the courses offered in University College, and the Honors Philosophy Course as outlined for St. Peter's Seminary College of Arts, 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 page 25. For the descriptions of Home Economics courses, see pp. 64-5.

Economics

39x. **The Family:** The family as a primary social group; a brief history of family life in Western societies; modern biological, psychological, sociological, economic and ethical views on the family; the ethical basis of family life; the form, unity and object of family life; status in the family; divorce; eugenics and birth-control; the family and the state; the family and economic organization; the training and the education of children; the Christian family. 2 hours a week.

Philosophy

Philosophy 20, 30 or 36 is a prerequisite for all General courses in Philosophy, Philosophy 230 for all Honors courses in Philosophy. Students preparing for Social work or other professions may, with permission, select options to suit their needs. Courses scheduled for two hours a week may meet for additional seminars or discussions at the discretion of the instructor.

To facilitate the use of manuscripts by Honors students an elementary course in Mediaeval Latin will be provided, if necessary.

Ursuline College may cancel a Philosophy course for a year, if the number of students who wish to take it is insufficient.

20x. **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; the interrelation of philosophy and experimental science. 3 hours a week.

30x. **Basic Philosophical Literature**: As in University College. 3 hours a week.

31x. **Logic**: The three operations of the intellect. Conception: the idea: the term, categories and predicables; definition and division. Judgement: assertion and negation; the proposition; the conversion of the proposition. Reasoning: deduction and induction; the rules, modes and figures of syllogisms; fallacies. Formal as contrasted with symbolic logic; problems of scientific method and certitude. 2 hours a week.

32x. **Introductory Ethics**: General and individual. 2 hours a week.

33x. **Introduction to Metaphysics, Epistemology and Ontology**: Problems of being, knowledge, causality and analogy. 2 hours a week.

34x. **Political Philosophy**: History of ancient, mediaeval and modern political philosophy. The second term's work will cover the philosophical implications of contemporary political movements and principles for world society. 2 hours a week.

35x. **Aesthetics**: Lectures and seminars on the history of the philosophy of art and the metaphysics of the beautiful; aesthetic problems; aesthetics as the foundation of criticism; art and prudence; the liberal and servile arts; the useful and fine arts. 2 hours a week.

36x. **Ancient, Mediaeval and Scholastic Philosophy**: with reading from selected texts. 2 hours a week.

42x. **Social Ethics**: Domestic society: the nature and conditions of marriage; function, rights and duties of family inmates; birth control and population problems. Civil society: the philosophy of the state; the relations between church and state; the community of nations; labor problems. 2 hours a week.

43x. **Advanced Metaphysics**: Natural theology; comparative religious philosophy. 2 hours a week.

44x. **Social Philosophy.** The relationship of philosophy to the social sciences: the nature and function of society; freedom, authority, government, the family and the state; historical development of social economy from primitive to modern times; individual and social character of property, capital and labor. 2 hours a week.

47x. **History of Modern Philosophy**: The transition from Mediaeval to Modern Philosophy; Modern Philosophy; readings from selected basic texts. 2 hours a week.

Honors Courses

The following courses are identical with the Pass courses indicated, except that additional assignments will be required or seminars added: 231 (31), 335 (35), 336 (36), 347 (47), 443, (43).

Because a reading knowledge of Mediaeval Latin will facilitate the reading of Thomistic texts, an intensive course in Elementary Latin will be offered when there is sufficient demand.

When the number of applicants is insufficient to warrant a class, the college reserves the right to cancel the class for the current year.

230x. **Basic Philosophical Literature**: An examination of the principal problems and issues, methods and attitudes, theories and solutions, terms and concepts of philosophy in the light of Scholastic principles; a critical reading of selected philosophical classics is required. 2 hours a week.

350x. **Philosophical Texts**: An examination of specified source materials in Greek, Mediaeval and Modern Philosophy, as well as pertinent critical texts. 2 hours a week.

448x. **Seminar in Contemporary Philosophy.** 2 hours a week.

454x. **Principles and Problems of Philosophy**: Philosophical problems of special interest to the class, evaluated according to pragmatic, idealist and neo-Thomist principles. 2 hours a week.

456x. **Seminar in Plato and Aristotle.**
Prerequisite: Philosophy 336. 2 hours a week.

457x. **Seminar in Modern Philosophy.**
Prerequisite: Philosophy 347. 2 hours a week.

462x. **Ethics**: A critical study of moral problems and theories; a comparative study of the conflicting approaches to ethical problems found in the classics of ethical literature from Aristotle to the present, including Thomistic and neo-Thomist texts. 2 hours a week.

466x. **Seminar in Post-Aristotelian and Mediaeval Philosophy.**
Prerequisite: Philosophy 336. 2 hours a week.

Religious Knowledge

Professor L. J. FLYNN

Associate Professors G. F. CHILDS and MOTHER ST. MICHAEL

Instructors MOTHER IGNATIUS LOYOLA and MOTHER ST. CATHERINE

10x. **Motives and Means of Christian Life:** Fundamental dogmas of Christianity, grace, prayer and the sacraments. Lectures, essays, readings. 2 hours a week.

20x. **Christian Ideals of Life:** Charity, personal, social and civic; justice and the commandments; citizenship. Lectures, essays, readings. 2 hours a week.

30x. **Christ and the Church:** The governing function of the Church; the teaching and sanctifying functions of the Church; Christian apologetics. 2 hours a week.

31x. **History of Liturgy I:** Survey of expressions of social consciousness in worship from Apostolic to modern times. Lectures, readings, seminars. 1 hour a week: half course.

40x. **Christian Morals:** The ten commandments of God; modern moral problems affecting the individual, the family and society. 2 hours a week.

41x. **History of Liturgy II:** Sociology of worship; primitive religious worship; the Old Testament. 1 hour a week: half course.

WATERLOO COLLEGE

(Waterloo, Ontario)

President

J. GERALD HAGEY, B.A.

Dean and Registrar

THE REVEREND LLOYD H. SCHAUS, M.A., B.D.

For Officers of Instruction see pp. 115-125.

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. It 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.

Pre-Theological General Course

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.

(1) For the credits to be allowed for certificates in Grade XIII subjects, consult your Registrar.

(2) Courses numbered (x), e.g. Greek 25x, are given in the Theological Seminary by Seminary professors but are allowed for credit towards the University degree.

JUNIOR GROUP

Subjects

English 10, 20, 29
Library Science
Math 10, 12, 18 (any two) or 11, or Latin 10
Physics 21 or Zoology 21
Physical Education
Psychology 20

Subjects

Economics 20
*History 14 or 20
**Greek 1 or 10
**German 1 or 10 or French 10 or Latin 10
German 10 or 20 or French 20 or Latin 20

SENIOR GROUP

Philosophy 30
Geography 20 or Physics 21 or Zoology 21
English 32, 36, 38, 49 (any two)
History 20, 31, 36, 44 (any two)
Greek 25x and 35x

Three courses of options from: English 39

Options continued:
Hebrew 1x
History 33a
Latin 26x (Ecclesiastical)
Philosophy 31, 42, 43
Psychology 36, 48, 49
Religious Knowledge 21x, 22x, 23x, 24x
Sociology 28

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:

Economics

457b. **Introduction to Insurance, Estates, and Trusts.**
2 hours a week: half course.

Chemistry

11xN. Basic inorganic and organic chemistry, with stress placed on application to physiology and pharmacology. Lectures and laboratory exercises. 3 hours a week.

Fine Arts

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: half course.

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: half course.

Greek

For Biblical Greek 35x, see the Huron College section.

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.

*History 20 must be chosen in either the Junior or the Senior Group.

**For those who have no Grade XII standing in these languages at entrance, Greek 1 and German 1 are available.

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: half course.

Music

55x. **Church Music:** A study of the development of music in the worship of the Christian Church. 1 hour a week: half course.

Religious Knowledge

21x. **Biblical Literature:** A study of the times, life, and teachings of Jesus based on the Gospels. 1 hour a week: half course.

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: half course.

23x. **Biblical Literature:** A study of Old Testament history. 1 hour a week: half course.

24x. **Biblical Literature:** A study of the lives and teachings of the Hebrew Prophets. 1 hour a week: half course.

BURSARIES, SCHOLARSHIPS AND PRIZES

I. Admission Bursaries

(i) Dominion-Provincial Student-Aid Bursaries, Type A.

Applications and terms of qualification may be obtained from secondary school principals or the Registrar of the Department of Education of Ontario.

(ii) Leonard Foundation Bursaries

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. Applications must be submitted by February 15th.

(iii) The Atkinson Charitable Foundation Grade XIII Bursaries

These are available to residents of the Province of Ontario who obtain an average of sixty-six percent. on eight Grade XIII papers, and who need financial assistance to attend a university. Applications should be submitted to the Registrar of the University of Western Ontario by May 1st of the students' final year in Grade XIII.

II. Admission Scholarships: University College

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

1. The following scholarships will be awarded on the results of the Grade XIII examinations of 1954.

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.

The Ontario Hockey Association Scholarship

An entrance award of one hundred and fifty dollars, the gift of the Ontario Hockey Association, tenable for one year only; the recipient to be selected by the Scholarship Committee, subject to the general conditions governing admission scholarships.

Board of Governors' Scholarships

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).

Total value of each scholarship, $900 ($300 the first year, $200 in each of the next three years).

II. **Seven 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;

Total value of each scholarship, $500 ($300 the first year, $200 the second).

III. A Scholarship for the highest applicant 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.*, Brant, Bruce, Elgin, Essex, Grey, Huron, Kent, Lambton, Middlesex, Norfolk, Oxford, Perth, Waterloo and Wellington, and all the cities situated therein. The successful applicants 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, $200 (payable the first year).

IV. Scholarships 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. Total value of each scholarship, $100 (payable the first year).

The George Williamson Young Memorial Scholarship

One General Proficiency Scholarship for the highest ranking student in Grade XIII English, History, one language, and one other paper; minimum qualifying average 75 per cent. Total value of scholarship, $500 ($300 the first year, $200 the second year).

(The capital fund for this scholarship was bequeathed to the University from the estate of the late George Williamson Young of Port Stanley).

The Harriett M. Giddens Scholarship

One General Proficiency Scholarship for the highest ranking student from the City of London who has not qualified for an award under Sections I, II or III above. Total value of scholarship, $200 (payable the first year).

(The capital fund for this scholarship was bequeathed to the University by the late Harriett M. Giddens of London.)

For information about the admission scholarships available in the affiliated colleges, write the Registrars of those colleges.

III. Undergradute

UNIVERSITY

University Gold Medals for competition in the final year of these Honors Courses:

Botany, Business Administration and Secretarial Science, Chemistry, Chemistry and Physics, Classics, Economic and Political Science, English, English and French, English and German, English and Latin, English and Philosophy, French and Latin, Geography, Geology, History, Journalism, Modern Languages (French and German, and French and Spanish), Philoso-

*To qualify for one of these Scholarships a candidate must obtain an average of 75 per cent. in six papers.

phy; Physical, Health, and Recreation Education; Physics and Mathematics, Psychology, Radio Physics and Mathematics, Social Science, Zoology.

Governor-General's Medal: Senior Group, General Course.

The Joseph J. and Annie R. Kingston Gold Medal: final year Mathematics, University College.

(Endowed by Dean H. R. Kingston in memory of his parents.)

The London Life Insurance Company Gold Medal: final year Actuarial Mathematics, University College.

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. Payment is made on October 15th and February 15th.

Unless otherwise indicated, the Scholarships and Prizes available in University College are provided by the Board of Governors of the University.

Scholarships: For general proficiency in the following:

(a) Junior Group 1 or the first year of Premedicine: Sixty Dollars.

(b) Junior Group 2:

(i) The F. G. Jewell Scholarship: Fifty dollars; for the highest ranking student who plans to enter one of the professional courses: Honors Business Administration, Business Administration and Secretarial Science, Journalism or Physical, Health, and Recreation Education.

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

(ii) The W. J. Roche Scholarship: Fifty dollars; for the highest ranking student who plans to enter one of the Social Science courses: Honors Economic and Political Science, Geography, History, Psychology or Social Science.

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

(iii) The B'Nai Brith Scholarship: Fifty dollars; for the highest ranking student who plans to enter one of the humanities courses: English, Ancient or Modern Languages and Literatures, or Philosophy.

(Given each year by the London Branch of the Order.)

(c) Premedicine: second year: Sixty dollars.

SECOND YEAR HONORS COURSES:

Business Administration and Secretarial Science, Chemistry and Physics, Classics, English and French, English and German, English and Latin, English and Philosophy, French and Latin, Geology, Journalism, Modern Languages, Philosophy; Physical, Health, and Recreation Education; Psychology.

THIRD YEAR HONORS COURSES:

Business Administration and Secretarial Science, Chemistry and Physics, Classics, English and German, English and Latin, English and Philosophy, French and Latin, Geology, History*, Journalism, Modern Languages, Philosophy; Physical, Health, and Recreation Education; Psychology.

The J. P. Bickell Foundation Scholarship: Twelve hundred dollars; for a student entering the second year of the Honors Geology course in September 1954. The scholarship will be payable in two equal instalments, on October 1st and January 15th.

The Hon. Edward Blake Scholarship, No. 1: Sixty dollars; for Honors Economic and Political Science, Second Year. Offered in 1955-56.

The Hon. Edward Blake Scholarship, No. 2: Sixty dollars; for Honors Economic and Political Science, Third Year. Offered in 1955-56.

(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 1954-55.

The Andrew Grant Scholarship, No. 2: Sixty dollars; for Honors Economic and Political Science, Third Year. Offered in 1954-55.

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 Prize, No. 1: One hundred and twenty dollars for highest standing in Honors Business Administration, Second Year; to be held in the third year.

The Wilhelmina and J. Gordon McIntosh Prize, No. 4: Sixty dollars; for Honors Geography, Second Year.

The Wilhelmina and J. Gordon McIntosh Prize, No. 5: Sixty dollars; for Honors Geography, Third Year.

(These prizes were bequeathed to the University by the late Wilhelmina Morris McIntosh, of Winnipeg and London.)

*In alternate years, next in 1954-5, when the Joseph Henry Marshall Scholarship is not available.

The Famous Players Canadian Corporation Scholarship: Five hundred dollars; to be awarded for high standing in the Journalism subjects of the penultimate year of the Journalism course; the award may be augmented by a waiver of fees of the Trois Pistoles Summer School for a candidate who agrees to attend that Summer Session. For further details of the award and for application forms, apply to the University Registrar not later than April 1st.

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 Honors 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 stand 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 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 stand highest in any year of any regular course in the University.

(These Scholarships were voted by the Council of Bruce County in June, 1945.)

Huron County Scholarships: Two, one hundred dollars each, one for the man, one for the woman, from Huron County who stand highest in

any year of any regular course in the University.

Huron County Bursaries: Five 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 by May 1st. Awards will be made by a committee of Huron County representatives and the University Registrar.

(These Scholarships were voted by the County Council of Huron County, in 1944 and 1948, for annual competition among Huron County students in attendance at the University of Western Ontario.)

Y-Mac Club Bursary: One hundred dollars, for a student of Y.M.C.A. background; to be awarded each fall by a special committee of Y.M.C.A. Y-Mac Club and University representatives.

The Undergraduate Women's Organization Bursary: One hundred dollars; for a woman in any year of any course; to be selected by a committee consisting of the Dean of Women, the Registrar, the Secretary of the Loans and Bursaries Committee, and the President and the Chairman of the Undergraduate Women's Organization. Applications must be submitted to the Dean of Women by October 15th.

University Women's Club Bursary: One hundred dollars; for a woman student in her third or, preferably, her fourth year in any Faculty; it will be awarded on the basis of satisfactory academic standing and some financial need, by a committee consisting of the Dean of Women, the Registrar, and a woman member of the Faculty who is not a graduate of this University. Application should be made to the Dean of Women or the Registrar before October 1st.

(This award is made annually by the University Women's Club of London.)

I. O. D. E. (Municipal Chapter) Bursary: Sixty dollars; awarded in the autumn to the student registered in the Zoology option who stood highest in Third Year Honors Biology during the preceding session and who gives indication of looking forward to work in Applied Biology or Entomology. The bursary may be awarded, under special circumstances, to a student approximating these conditions.

I. O. D. E. (William E. Saunders Chapter) Bursary: One hundred 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.

I. O. D. E. (Dr. John Dearness Chapter) Bursary: Seventy-five dollars; awarded annually to the student with the highest standing in the Mycology of the Fourth Year of the Honors Biology course.

I. O. D. E. (London Air Force Chapter) Bursary: Seventy-five 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.

I. O. D. E. (Nina Moore Jamieson Chapter) Bursary: One hundred dollars; awarded annually to the student with the highest standing in the Third Year of the Honors course in English and French.

I. O. D. E. (Lord Roberts Chapter) Bursary: One hundred dollars; awarded annually to a woman student enrolled in the final year of the Medical Course or in the Public Health Option of the degree course in Nursing; applications must reach the Registrar before October 1st each year.

I. O. D. E. (The Colonel William Gartshore Chapter) Bursary: One hundred dollars; awarded by the Scholarship Committee to a student in the Humanities.

I. O. D. E. (The Princess Patricia Chapter) Bursary: One hundred dollars; awarded by the Scholarship Committee to a student in the Social Sciences.

I. O. D. E. (The Sir George Ross Chapter) Bursary: Seventy-five dollars; awarded by the Scholarship Committee to a student in the Humanities or the Social Sciences.

I. O. D. E. (The Colonel G. Eric Reid Chapter) Bursary: Seventy-five dollars; awarded by the Scholarship Committee to a student in any year of any course.

Beta Theta Pi Fraternity Award: One prize of twenty-five dollars, for a second year student in Honors Science or Mathematics or Premedicine. High academic standing and participation in campus activities are to be the basis of selection.

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 was 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 1955-56.

(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.)

William C. Benson and Company Prize: Fifty dollars; for the highest standing in the Accounting course of Second Year Honors Business Administration.

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).

W. W. Tamblyn Prize: Ten dollars; Second Year English Composition. Given in alternate years, next in 1955-56.

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

Canadian Women's Press Club (London Branch) Prize: Twenty-five dollars; for the highest standing in Foreign News Reporting and Editing in the Journalism course.

Legation of Switzerland: Book prizes to students in modern languages, on recommendation of the Departments of Romance Languages and German.

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).

Chemical Institute of Canada Prize: Twenty-five dollars in books to be awarded to the student with the highest standing in Chemistry in the Honors Chemistry, or Chemistry and Physics, course of the third year.

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 Scholarships: Two; one hundred and fifty dollars each.

Imperial Oil Company Limited Scholarships: One hundred and fifty dollars.

Board of Governors' Scholarship: Sixty dollars.

Lachapelle Scholarships: Two, fifty dollars each.

Nicol Scholarship: Fifty dollars.

Through the generosity of certain London chapters of the Imperial Order of Daughters of the Empire, a few students may benefit by a grant from the **Trois-Pistoles Student-Aid Fund.** For details, apply to the Director, Trois-Pistoles Summer School, Room 114B, University College.

SUMMER SESSION IN LONDON

For these prizes, see the Summer School pamphlet. A prize is available for each course offered. Because the awards are made for the highest

standing in each subject, it is not necessary for students to file applications for any of them. Cheques will be mailed to prize-winners by October 15th.

ADDITIONAL BURSARIES

IV. Bursaries for Undergraduates

(i) Dominion-Provincial Student-Aid Bursaries, Type B

These bursaries ranging up to $400 are for second, third or fourth year students with financial need and a record of sixty-six per cent., or better, in the university work of the preceding year. Applications are submitted through Dean T. L. Hoskin, Secretary of the Student Loans and Bursaries Committee of this University, by October 1st.

A limited number of Type B Bursaries are also available to students registered in the Faculty of Graduate Studies.

(ii) Student-Aid Bursaries from the W. F. Thomas Estate

Grants of $100 to $300 are available to students in financial need who are registered at this University in any year of a degree course. To be eligible, an applicant must be able to give evidence of satisfactory academic achievement. Preference is given to applicants whose residence is in St. Thomas or Elgin County. Applications should be submitted to Dean T. L. Hoskin, Secretary of the Student Loans and Bursaries Committee of this University, by October 15th.

(iii) Atkinson Charitable Foundation Student-Aid Grants

These awards are made to deserving undergraduates registered at this University in any year of a degree course. Applicants must be residents of the Province of Ontario and be able to give evidence of financial need. Applications should be submitted to Dean T. L. Hoskin, Secretary of the Student Loans and Bursaries Committee of this University, by October 15th.

V. Graduate Fellowships, Scholarships and Prizes

See the Announcement of the Faculty of Graduate Studies. For detailed information about other graduate fellowships and scholarships available in Canada and abroad, consult the following volumes on file in the Registrar's Office and in the University Library:

The Yearbook of Canadian Universities

The Yearbook of the Universities of the Commonwealth

Higher Education in Great Britain and Ireland

The UNESCO International Handbook, **Study Abroad**

The Dominion Bureau of Statistics, **Postgraduate Scholarships and Fellowships open to Canadian Students.**

Military Studies

Students may offer themselves for training in one of the three Armed Services, the University Naval Training Divisions, the Canadian Officers' Training Corps, and the RCAF University Squadron. Suitable candidates in each Service may be selected and trained for commissioned rank.

Military Studies count as a half course towards a degree in Senior Group B of the General Course in Arts.

Regular Officer Training Plan (ROTP)

Under the ROTP, undergraduates who are successful applicants are enrolled in the service of their choice, as Naval Cadets in the Royal Canadian Navy, Officer Cadets in the Canadian Army, and Flight Cadets in the Royal Canadian Air Force.

Applicants must be Canadian citizens or British subjects, single and under 21 at commencement of university or college training. If application is made prior to entry at university or college, it should be sent in writing to ROTP Selection Board, National Defence Headquarters, Ottawa, Ontario. If it is delayed until after admission to a university, apply to the representative of your preferred service, in his office in Thames Hall.

For successful applicants the cost of books, instruments, tuition and other essential fees will be borne by the Department of National Defence. The scale of pay and allowances under this plan is:

(a) During the academic year, pay of $55 a month and subsistence of $65 a month, for a total of $120 a month.

(b) During the period of practical summer training, pay of $55 a month and subsistence provided by the Armed Services.

On successful completion of academic and military training, cadets will be promoted to Commissioned Officer rank in the Regular Force. The privilege of release, if desired, will be honored after three years service as a commissioned officer.

University Naval Training Division

The Royal Canadian Navy hopes to secure the majority of its officers 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).

Applicants for training under the R.O.T.P. for service with the Royal Canadian Navy will train with the U.N.T.D. For further particulars regarding the R.O.T.P., see the details included in the above plan which is applicable to all Services.

The course consists of sixty hours training during the academic year, for three years, and fourteen weeks training ashore and afloat for two summers. Cadets may volunteer for additional service. Students enter as Probationary Cadets and in their first year appear before a Cadet Selection Board for promotion to the rank of Cadet.

Pay is at the rate of $185.00 a month. For training during the academic year Cadets are paid one half day's pay for each training period up to a maximum of sixteen days' pay. On entry, uniforms are issued; and for summer training, board, lodging, medical care, dental care, and travelling expenses are provided.

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 and is the source of over eighty percent. of commissioned Reserve Naval Officers.

Information and application forms are available in the U.N.T.D. office, 113 Thames Hall, University of Western Ontario.

Canadian Officers' Training Corps

1. Canadian Officers' Training Corps offers undergraduates an opportunity to qualify 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 or Canadian citizens between the ages of 17 and 25; these requirements may be varied to allow a higher age of entry for men who were on active service during the war, 1939-45, and those entering special Corps.
   (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 is in two parts:
   (a) Two hours a week of theoretical training in military subjects during the academic year.
   (b) Twelve to twenty-two weeks of practical training during the summer, depending upon length of vacation period and candidate's choice. Training will be as follows:
      (i) First and second years — at Corps Schools of the Canadian Army Active Force.
      (ii) Third year — practical leadership in charge of a troop, section or detachment at an Active Force Unit or camp in Canada or Europe.

4. Students accepted for COTC training are granted the rank of Officer Cadet during the first two years and in the third year are appointed as 2nd Lieutenants. They are eligible for pay of rank ($185 a month) for every full day of military duty. For this purpose four hours of lectures during the academic year count as one day's duty, as well as each day spent at summer camp up to a maximum of 22 weeks.

5. The commanding officer is Lt.-Col. J. J. Talman. Candidates should apply to the following officers: *University College*—Major J. F. Taylor,

Resident Staff Officer, Room 117, Thames Hall or to Major R. N. Shervill; *Medical School*—Major J. A. Stevenson.

6. Students who wish to apply for COTC training should see one of the above officers before January 15th, 1955.

Royal Canadian Air Force University Squadron

The RCAF University Squadron offers undergraduates the opportunity of qualifying as trained commissioned officers in the RCAF Regular, or Reserve Forces. Besides the ROTP plan shown on the previous page, there is the

University Reserve Training Plan

Under this plan (URTP) students admitted to a squadron are appointed in the rank of Flight Cadet and hold that rank until commissioned as Pilot Officers at the end of the second summer of training. As Flight Cadets and Pilot Officers they are paid at the rate of $185 a month during the summer months and up to sixteen days' pay for attendance at squadron lectures held in Thames Hall. Those accepted for aircrew training will receive an extra $30 a month during the summer flying training. Upon graduation they are promoted to Flying Officer and given the option of service with the Regular Force, or going into the Supplementary Reserve, where they are on call only in case of national emergency.

Training consists of approximately 60 hours of parades, lectures, and films during each academic year, plus training in each cadet's particular field (i.e. Aircrew, Supply, Telecommunications, etc.) during summer employment on air force stations.

The Commanding Officer of the RCAF University Squadron is Wing Commander M. H. M. MacKinnon. Information and application forms are available in Room 112, Thames Hall.

OFFICERS OF INSTRUCTION

Session 1953-54

(The year of first appointment to University Staff is given. "B" in brackets after name indicates the staff of the School of Business Administration; "C", the staff of University College; "H", the staff of Huron College; "M", the staff of Music Teachers' College or the Conservatory of Music; "P", the staff of St. Peter's Seminary College of Arts; "U", the staff of Ursuline College; "W", the staff of Waterloo College. Alma College is designated by its whole name. Unless otherwise indicated the degrees have been granted by the University of Western Ontario).

FRANCIS GEOFFREY WADDINGTON ADAMS (W), *Assistant Professor of History*
B.A., Toronto, M.A., *ibid.* 1953

RAY LEROI ALLEN (C), *Professor of Physics*
B.A., Mt. Allison, M.A., *ibid.* 1921

RONALD ALEXANDER ALLEN (C), *Lecturer in German*
B.A., Toronto, M.A., *ibid.*, Ph.D., Chicago; Dean of Graduate Studies; University Vice-President. 1923

WILLIAM ERIC DUNCAN ATKINSON (C), *Assistant Professor of English*
B.A., Cambridge, Ph.D., Chicago. 1945

WALTER BALDERSTON (C), *Associate Professor of History*
B.A., Cornell, Ph.D., *ibid.* 1945

TOMAS BARTROLI (C), *Instructor in Romance Languages*
Cert. superieur d'Etudes Francaises, Toulouse; Titulo de Maestro, Barcelona. 1951

HELEN IRENE BATTLE (C), *Professor of Zoology*
B.A., M.A., Ph.D., Toronto, F.A.A.A.S. 1924

CHRISTOPHER JOHN BITTNER (C), *Associate Professor of Economics*
B.A., Valparaiso, M.A. Iowa, Ph.D., *ibid.* 1938

JOHN HENRY BLACKWELL (C), *Assistant Professor of Physics*
B.Sc., Melbourne, M.Sc., Ph.D. 1947

ERIC BRANNEN (C), *Assistant Professor of Physics*
B.A., Toronto, M.A., *ibid.*, Ph.D., McGill. 1949

MAUREEN CLIFTON BRAY (C), *Instructor in Physical, Health, and Recreation Education*
B.P.E., British Columbia. 1952

HAROLD JOHN BREEN (C), *Lecturer in Psychology*
B.A., M.A., Ph.D. 1949

ANTHONY WILLIAM ALDRIDGE BROWN (C), *Professor of Zoology*
B.Sc.F., Toronto, M.A., *ibid.*, Ph.D., *ibid.*, M.B.E. 1947

JOHN ANDREW BRUCE (C), *Instructor in Philosophy*
B.A., M.A. 1952

GEORGE E. BUCKLEY (C), *Assistant Professor of English*
B.A., Mt. Allison, M.A., Columbia. 1946

JAMES WENDEL BURNS (C), *Professor of Organic Chemistry*
B.Sc., New Brunswick, M.Sc., Queen's, F.C.I.C. 1922

CHARLES MURRAY CARMICHAEL (C), *Preceptor in Physics*
B.Sc., M.Sc. 1947

JEAN ELLIOT CARMICHAEL (C), *Assistant Professor of Physical, Health, and Recreation Education*
B.A., Queen's, B.P.H.E., Toronto, M.A., Columbia. 1950

ELAINE WOODROW CHAPMAN (Mrs. C. B.) (C), *Assistant Professor of Secretarial Science*
B.A. 1945

GEORGE FRANCIS CHILDS (U), *Associate Professor of Religious Knowledge*
B.A., J.C.B., Catholic Univ. of America, J.C.L., Angelicum, Rome. 1939

JAMES MCNAB CLARK (W), *Associate Professor of English*
B.A., Manitoba, M.A., *ibid.* 1948

GERALD E. COLE (M), (C), *Lecturer in Music; Professor in Music Teachers' College*
Mus.Bac., Kansas, Mus.M., Oberlin. 1951

RANDAL HUDIE COLE (C), *Professor of Mathematics*
B.A., M.A., Wisconsin, Ph.D., *ibid.* 1940

WILLIAM ROBERT COLEMAN (H), *Professor of Divinity, Philosophy and Ethics*
B.A., Toronto, M.A., *ibid.*, B.D., Wycliffe, S.T.M., Union Theological Seminary, D.D., Wycliffe, F.R.S.A. 1952

WILLIAM EDWIN COLLIN (C), *Associate Professor of Romance Languages*
L. ès L., Toulouse, M.A. 1923

ALFRED BRANDON CONRON (C), *Associate Professor of English*
B.A., M.A., A.M., Harvard, Ph.D., *ibid.*; D.S.O.; *Croix de Guerre avec Etoile de Vermeil.* 1946

FRANKLAND SHAW COOK (C), *Instructor in Botany*
B.A., Toronto. 1952

JEAN MARY CROSS (W), *Assistant Professor of Romance Languages*
B.A., McGill, A.M., Radcliffe, *Doctora en Letras, Madrid.* 1951

ALFRED HENCHMAN CROWFOOT (H), *Lecturer in Church History*
B.A., Cambridge, M.A., *ibid.*, D.D., King's. 1949

RAYMOND COMPTON DEARLE (C), *Research Professor of Physics*
B.A., Toronto, M.A., *ibid.*, Ph.D., *ibid.*, F.R.S.C.; M.B.E. 1919

ISABEL TURNBULL DINGMAN (Mrs. J. J.) (C),
B.A., Manitoba, M.A., *ibid.* *Assistant Professor of Journalism* 1948

MOTHER M. DOMINICA (U), *Professor of Home Economics*
B.A., Toronto, M.A., *ibid.* 1945

ARTHUR GARRATT DORLAND (C), *Professor of History*
B.A., Queen's, M.A., Yale, Ph.D., Toronto, F.R.S.C. 1920

ALEKSIS DREIMANIS (C), *Assistant Professor of Geology*
M. Nat. Sc., Riga. 1948

ANTHONY JOSEPH DURAND (U) (P), *Associate Professor of English, Library Science and Philosophy*
B.A., M.A., Ph.L., Laval, Ph.D., *ibid.* 1939

ANDREW MONTAGUE ISAACSON ALEXANDER WILLIAM DURNFORD (C), *Associate Professor of Physics*
B.A., M.A., Ph.D., Toronto. 1930

GEORGE FREDERICK DURST (W), *Lecturer in History, Economics and Psychology*
B.A., B.D., M.A., Toronto. 1951

HAROLD KENNETH ELLENTON (W), *Assistant Professor of Science, Mathematics and Astronomy*
B.Sc., M.A., Toronto. 1952

WELLESLEY DORLAND EVANS (W), *Associate Professor of Romance Languages*
B.A., Toronto, M.A., *ibid.* 1938

JOHN RUSSELL FAIRS (C), *Assistant Professor of Physical, Health, and Recreation Education*
B.Sc., M.A., Columbia. 1947

JOSEPH PETER FINN (P), *Instructor in Classics*
B.A., Ph.D., Catholic Univ. of America. 1953

LEO JAMES FLYNN (U) (P), *Instructor in Philosophy and Religious Knowledge*
B.A., S.T.D., Angelicum, Rome, S.S.L., Biblical Institute. 1936

MARY HAMILTON GILLESPIE (C), *Professor of Secretarial Science*
B.A., M.A., Columbia. 1935

KENNETH DOUGLAS GOWIE (C), *Assistant Professor of Physical, Health, and Recreation Education*
B.A., M.A., New York Univ. 1950

JOHN WICHELLO GRAHAM (C), *Assistant Professor of English*
B.A., Manitoba, M.A., Toronto, Ph.D., *ibid.* 1949

JOHN ABERDEEN GUNTON (C), *Professor of Chemistry*
B.A., McMaster, M.A., *ibid.*, Ph.D., Illinois, F.C.I.C. 1923

WILLIAM THOMAS THOMPSON HALLAM (H), *Professor of New Testament*
B.A., Dalhousie, M.A., King's B.D., Wycliffe, D.D., Emmanuel and Wycliffe, LL.D., Sask. 1949

ROLAND KENNETH HARRISON (H) (C), *Professor of Hebrew, Biblical Greek, Old and New Testament*
B.A., London, M.Th., *ibid.*, Ph.D., *ibid.* 1949

NELSON COLLINS HART (C), *Professor of Botany*
B.A., Toronto, M.A., *ibid.*, F.A.A.A.S. 1919

WALTER BENNETT HARVEY (C), *Professor of Economic and Political Science*
B.A., Manitoba, M.A., *ibid.*, LL.B., *ibid.*, Ph.D., Chicago. 1938

GEORGE PHILIP HENDERSON (C), *Assistant Professor of Mathematics*
B.A., Toronto, M.A., *ibid.*, Ph.D., *ibid.* 1948

WILBERT CAMERON HENRY (C), *Instructor in Philosophy*
B.A., M.A. 1952

SUSANNE HILLING (U), *Lecturer in Romance Languages; Professor of German*
Ph.D., Marburg. 1952

KENNETH WILLIAM HUNTEN (C), *Associate Professor of Chemistry*
B.A., Bishop's, B.Sc., McGill, M.Sc. *ibid.*, Ph.D., *ibid.*, M.C.I.C. 1928

LEONID IGNATIEFF (C), *Associate Professor of Russian Studies*
B.A., McGill, M.A., Mich., Certificate of Russian Institute, Columbia. 1944

MOTHER M. IGNATIUS LOYOLA (U), *Instructor in Economics and Religious Knowledge*
B.A., M.A., Notre Dame; Registrar, Ursuline College. 1948

MARK KEITH INMAN (C), *Professor of Economic and Political Science*
B.A., Acadia, M.A., Harvard, Ph.D., *ibid.* 1929

DAVID IVOR (C), *Associate Professor of Economic and Political Science*
B.A., M.A., Ph.D., London. 1946

HERBERT EDWARD JENKIN (C), *Professor of Romance Languages*
B.A., London, King's D.ès L., Laval, F.R.S.A., Director, Trois-Pistoles Summer School. 1929

ALLISON HEARTZ JOHNSON (C), *Professor of Philosophy*
B.A., Mt. Allison, M.A., Toronto, Ph.D., *ibid.* 1937

HAROLD JOSEPH JOHNSON (C), *Lecturer in Philosophy*
B.A., Alfred. 1950.

WILLIAM WALLACE JUDD (C), *Associate Professor of Zoology*
B.A. McMaster, M.A., Ph.D., Toronto. 1950

HERBERT KARL KALBFLEISCH (C), *Professor of German*
B.A., A.M., New York Univ., A.M., Mich., Ph.D., *ibid.* 1931

BRUCE WEYLER KELLEY (W), *Professor of Science*
B.A., Queen's, M.Sc., Chicago. 1946

CARL FREDERICK KLINCK (C), *Professor of English*
B.A., M.A., Columbia, Ph.D., *ibid.* 1928

ELFRIDA KUKAINIS (Mrs.) (C), *Instructor in Physical, Health, and Recreation Education*
M.M., Riga. 1952

OSMUND PER LANGTVET (C), *Instructor in Geography*
C. Phil., Oslo. 1953

FERGUS JOSEPH PATRICK LAVERTY (P.), *Instructor in Classics*
B.A. 1942

WILLARD JOSEPH L'HEUREUX (C), *Assistant Professor of Physical, Health, and Recreation Education*
B.A. 1950

ROY BALMER LIDDY (C), *Professor of Psychology*
B.A., Toronto, M.A., *ibid.*, B.D., Victoria, Ph.D., Toronto, LL.D., Mt. Allison. 1931

ARNOLD FRANCIS LOEBACH (U) (P), *Instructor in Philosophy*
B.A., J.C.L., Catholic Univ. of America. 1950

GORDON RICHEY MAGEE (C), *Professor of Mathematics*
B.A.., M.S,, Chicago, Ph.D., *ibid.* 1927

ANDREW PARNELL MAHONEY (P), *Professor of Religious Knowledge*
Rector, St. Peter's Seminary College of Arts. 1920

STAR FLOYD MAINE (C), *Lecturer in History*
B.A., B.D., Victoria, M.A., Chicago, Ph.D., *ibid.;* Director of Extension and Summer School. 1926

*MOTHER M. MARIE (U), *Professor of French and Spanish*
B.A., M.A., Ph.D., Toronto. 1925

MOTHER MARY AGNES (U), *Instructor in Engish and German*
B.A., M.A., Toronto. 1939

THOMAS JOSEPH MCCARTHY (P), *Professor of English; Instructor in Latin*
B.A., M.A., S.T.B. and S.T.L., Angelicum, Rome, S.T.D., *ibid.;* Registrar of St. Peter's College; Vice-Rector. 1933

IAN ARNOLD MCDONALD (C), *Lecturer in English*
B.A., Sask., M.A., Northwestern. 1948

ALEXANDER GORDON MCKAY (W), *Assistant Professor of Classics*
B.A., Toronto, M.A., Princeton, Ph.D., *ibid.* 1948

MALCOLM HUGH MURDOCH MACKINNON (C), *Associate Professor of English*
B.A., Toronto, M.A., *ibid.*, Ph.D., *ibid.* 1946

DUNCAN ARCHIBALD MCLARTY (C), *Associate Professor of Botany*
B.A., Ph.D., Columbia. 1943

MOTHER M. MERCEDES (U), *Professor of History*
B.A., M.A. 1930

LIONEL JACQUES SEYMOUR METFORD (C), *Lecturer in Romance Languages*
B.A., British Columbia, M.A., *ibid.*, D. de l'U. de Paris. 1949

THOMAS REACH MILLMAN (H), *Professor of Church History and New Testament*
M.A., Toronto, B.D., Wycliffe, Ph.D., McGill, D.D. 1950

AUSTIN DONALD MISENER (C), *Professor of Physics*
B.A., Toronto, M.A., *ibid.*, Ph.D., Cambridge, F.R.S.C. 1949

FRANCES KATHLEEN MONTGOMERY (C), *Associate Professor of Romance Languages*
B.A., M.A., D. de l'U. de Paris. 1930

KURT NABERT (W), *Assistant Professor of German*
B.A., Toronto, M.A., *ibid.* 1951

LEOLA ELLEN NEAL (C), *Associate Professor of Psychology*
B.A., M.A., Ph.D., Toronto; Dean of Women. 1933

RALPH WILLIAM NICHOLLS (C), *Assistant Professor of Physics*
B.Sc., London, Ph.D., *ibid.*, A.R.C.S. 1948

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* On leave, 1953-4.

HERMAN OLAF JOHAN OVERGAARD (W), *Associate Professor of Business Administration and Economics; Lecturer in Geography*
B.A., Manitoba, M.S., Columbia. 1947

ROBERT WILFRED PACKER (C), *Lecturer in Geography*
B.A., Cambridge, M.A., *ibid.*, F.R.G.S. 1949

ISABEL PARK (U), *Instructor in Home Economics*
B.A., Toronto, M.A., *ibid.* 1947

†MAXWELL BAILEY PARKER (H), *Instructor in Old Testament*
B.A., B.D., M.A., Columbia. 1941

FREDERICK LEWIS MAITLAND PATTISON (C), *Associate Professor of Chemistry*
B.A., Cambridge, M.A. *ibid.*, Ph.D., A.R.I.C. 1948

ROBERT EDWARD KINGSDOWN PEMBERTON (C), *Professor of Classics; Lecturer in History*
M.A., Oxon. 1926

EDWARD GUSTAV PLEVA (C), *Professor of Geography*
B.A., Minnesota, M.A., *ibid.*, Ph.D., *ibid.* 1938

CLIFFORD POOLE (M) (C), *Lecturer in Music; Professor in Music Teachers' College*
1949

MARGARET PARSONS POOLE (M) (C), *Lecturer in Music; Professor in Music Teachers' College*
1949

JOHN DANBY RALPH (C), *Professor of Classics*
B.A., Queen's, Ph.D., Chicago. 1925

ALFRED ERNEST RAYMOND (C), *Associate Professor of Classics; Lecturer in English*
B.A., M.A., Toronto, Ph.D., Chicago. 1944

GEORGE HAROLD REAVELY (C), *Professor of Geology*
B.A., M.A., D.I.C., London. 1928

JOHN REIDY (C), *Lecturer in English*
B.A., London, M.A., *ibid.* 1949

EDWARD ERNEST REILLY (C), *Professor of Economic and Political Science*
B.S.A., Toronto, M.S., Wisconsin, F.R.E.S. 1926

WILLIAM JOSEPH RING (P), *Instructor in Philosophy and Psychology*
B.A., Ph.L., Laval. 1951

HARVEY A. ROBB (M) (C), *Professor of Music*
D.D.S., Toronto; Principal of Music Teachers' College and the Western Ontario Conservatory of Music. 1945

MOTHER M. ROSANNA (U), *Associate Professor of Economics and Romance Languages*
A.T.C.M., B.A., M.A., Catholic Univ. of America. 1935

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† First term, 1953-54.

ALFRED ROSÉ (M) (C), B.A. — *Professor of Music in Music Teachers' College; Lecturer in German and Music* 1948

FLORA ROY (W), B.A., Sask., M.A., *ibid.* — *Professor of English* 1948

MOTHER M. ST. CATHERINE (U), B.A. — *Lecturer in Classics and Religious Knowledge* 1945

MOTHER M. ST. DOMINIC (U), B.Sc., Marywood. — *Associate Professor of Home Economics and Mathematics* 1946

MOTHER M. ST. JAMES (U), B.A., Queen's, M.A., *ibid.*; Dean, Ursuline College. — *Professor of English* 1925

MOTHER M. ST. MICHAEL (U), A.T.C.M., B.A., M.A., Catholic Univ. of America, Ph.L., Laval, Ph.D., *ibid.* — *Professor of Economics; Associate Professor of Philosophy* 1938

CLIFFORD EARLE SANBORN (C), B.A., Toronto, M.A., *ibid.* — *Instructor in English* 1948

DAVID MAXWELL SCOTT (C), B.Sc., McGill., M.Sc., *ibid.*, Ph.D., *ibid.* — *Associate Professor of Zoology* 1951

ROBERT NEWTON SHERVILL (C), B.A., M.A., North Carolina; Knight Officer, Order of Orange Nassau (with Swords). — *Lecturer in Romance Languages* 1946

WILLIAM FRANCIS SIMPSON (P), B.A., M.A. — *Professor of French* 1935

CHRISTIAN SIVERTZ (C), B.Sc., British Columbia, M.Sc., McGill, Ph.D., *ibid.* — *Associate Professor of Chemistry* 1926

ILSE ERIKA STEWART (Mrs. Donald) (W), B.A., M.A., Toronto. — *Assistant Professor of Romance Languages* 1948

FRANK STILING (C), B.A., McMaster, M.A., M.A., Mich., Ph.D., *ibid.*; Principal of University College; Dean of Arts and Science. — *Lecturer in English* 1928

ROBERT HARVEY STINSON (C), B.A., McMaster, Ph.D., Toronto. — *Assistant Professor of Zoology* 1950

GEORGE GORDON SUFFEL (C), B.Sc., Queen's, M.Sc., *ibid.*, Ph.D., Stanford. — *Associate Professor of Geology* 1946

JAMES JOHN TALMAN (C), B.A., M.A., Ph.D., Toronto, F.R.S.C.; University Librarian. — *Lecturer in History, Journalism and Library Science* 1939

HARTLEY MUNRO THOMAS (C), B.A., Queen's, M.A., Harvard, Ph.D., *ibid.* — *Associate Professor of History* 1931

PAUL ERNEST THOMAS (C), B.A. — *Instructor in Physical, Health, and Recreation Education* 1952

ROBERT WARREN TORRENS (C), *Professor of Romance Languages*
B.S., Dartmouth, M.A., Harvard, Ph.D., Cornell. 1944

ERIC HAROLD TULL (C), *Assistant Professor of Physics*
B.A.Sc., British Columbia, M.Sc., P.Eng. 1945

GORDON HASLAM TURNER (C), *Associate Professor of Psychology*
B.A., Toronto, M.A., *ibid.*, Ph.D., *ibid.* 1945

ADA DOROTHY TURVILLE (C), *Professor of Romance Languages*
B.A., M.A., Columbia, Ph.D., *ibid.*, *certificato della R. Universita di Firenze.* 1925

ROBERT JAMES UFFEN (C), *Assistant Professor of Geology; Lecturer in Physics*
B.A.Sc., Toronto, M.A., *ibid.*, Ph.D., P.Eng. 1950

MOTHER M. VICTORIA (U), *Lecturer in Home Economics*
B.Sc., Chestnut Hill. 1949

JOHN ANDERSON WAINWRIGHT (C), *Instructor in Psychology*
B.A., M.A. 1950

ANSON ROBERTSON WALKER (C), *Professor of Plant Pathology*
B.A., Queen's, M.A., Toronto, F.A.A.A.S. 1925

ROMA WALLER (Mrs.) (C), *Instructor in Secretarial Science*
B.A., M.A., Columbia. 1953

JAMES KEITH WATSON (C), *Associate Professor of Chemistry*
B.A., McMaster, M.A., Toronto, Ph.D., *ibid.*, M.C.I.C. 1937

LESTER ALBERT WEMPLE (U) (P), *Professor of Philosophy*
B.A., Ph.L., Angelicum, Rome. 1934

SHALOM WEYL (C), *Lecturer in German*
B.A., Cologne, M.A., McGill, Ph.D., Toronto. 1946

JOHN LESLIE WILD (C), *Associate Professor of Journalism*
B.A. 1947

MARK JOSEPH WILDGEN (U) (P), *Instructor in Philosophy and Psychology*
B.A., Ph.L., Laval, S.T.L., Angelicum, Rome. 1949

NORAH FRASER WILSON (Mrs. John C. A.) (C), *Senior Demonstrator in Chemistry*
B.A., Toronto. 1952

CHARLES GORDON WINDER (C), *Lecturer in Geology*
B.Sc., Ph.D., Cornell. 1953

ROSS GREIG WOODMAN (C), *Instructor in English*
B.A., British Columbia, M.A., Manitoba. 1950

ARTHUR WOODS (C), *Professor of Mathematics*
B.A., Queen's, M.A., *ibid.* 1920

MARY JEAN WRIGHT (C), *Assistant Professor of Psychology*
B.A., M.A., Toronto, Ph.D., *ibid.* 1946

EARLE FREDERICK ZEIGLER (C), *Professor of Physical, Health, and Recreation Education*
A. B., Bates, A.M., Yale, Ph.D., *ibid.* 1949

Sessional and Part-time Appointments

PHILIP JOHN AZIZ (C), *Lecturer in Art*
B.F.A., Yale, M.F.A., *ibid.* 1950

ALLAN JONES BARKER (C), *Instructor in Geography*
B.A., M.A., Wisconsin. 1951

WINNIFRED ELVY BENO (B) (C), *Lecturer in Business Administration*
B.A. 1947

HELMUT HERBERT FREDERICK BINHAMMER (W), *Lecturer in Economics*
B.A. 1950

OLGA B. BISHOP (C), *Lecturer in Library Science*
B.A., Mt. Allison, M.A., *ibid,* B.Pub. Admin., Carleton, A.M.L.S., Mich. 1953

ARNOLD DOUGLAS BOGGS (W), *Lecturer in Geography*
B.A., Toronto. 1948

HOWARD NELSON BREAM (W), *Lecturer in Hebrew*
A. B., Midland, B.D., Gettysburg, Ph.D., Chicago. 1953

CATHERINE CAMPBELL (C), *Lecturer in Library Science*
B.A. 1923

JAMES JOSEPH CARRIGAN (P), *Lecturer in English*
B.A., S.T.L., Montreal, S.T.D., *ibid.* 1948

WILLIAM CHEFURKA (C), *Honorary Lecturer in Zoology*
B.Sc., Manitoba, M.S., Montana State, Ph.D., Harvard. 1953

RANDOLPH JOHN CHURCHILL (C), *Lecturer in Journalism*
1946

THEODORE HENRY COFFEY (C), *Lecturer in Physical, Health, and Recreation Education*
D.P.E., Harvard, M.D.C.M., Queen's. 1948

ARTHUR RICHARD CRAGG (W), *Lecturer in Philosophy*
B.A., Toronto, M.A., *ibid.* 1948

CARL THOMAS CRAIG (W), *Lecturer in Geography*
B.A. 1952

JOHN KERR ELLIOTT (C), *Lecturer in Journalism*
B.A. 1946

CHARLES R. ENGEL (C), *Honorary Lecturer in Chemistry*
Chem. Ing., Swiss Federal Inst. Tech., Ph.D., *ibid.* 1952

ANNA MARGARET EVANS (Mrs. W. D.) (W), *Lecturer in History*
B.A., M.A., Toronto. 1935

KINGSLEY GEORGE FERGUSON (C), *Lecturer in Psychology*
B.A., M.A., Toronto. 1951

ROBERT WILLIAM FISHER (C), *Honorary Lecturer in Zoology*
B.Sc. (Agr.), McGill, Ph.D., *ibid.* 1953

ARTHUR RUTHERFORD FORD (C), *Lecturer in Journalism*
B.A., Toronto, LL.D., *ibid.;* Chancellor of the University. 1946

*Edward Jackson Fox (B) (C), *Professor of Business Administration*
B.A., M.Sc. (Econ.), London, Ph.D., California. 1947

Delton John Glebe (W), *Lecturer in Greek*
B.A. 1950

Alice L. Graves (H), *Lecturer in Voice Culture*
1949

John Robert William Gwynne-Timothy (C), *Lecturer in History*
B.A., Toronto, M.A., *ibid.*, D. Phil., Oxon.; Assistant Librarian. 1953

Otto William Heick (W), *Lecturer in German*
A.B., Wittenberg, B.D., Hamma Divinity School, A.M., Nebraska, Ph.D., *ibid.* D.D., Wittenberg. 1947

Wilson Hunsberger (W), *Lecturer in Psychology*
B.A., M.A., Toronto. 1953

Mabel Agnes Hynd (C), *Assistant in Secretarial Science*
1919

John K. Johannesen (C), *Instructor in Plant Culture*
Diploma, Royal Agricultural College (Copenhagen). 1950

Helen M. Korri (U), *Instructor in Physical Education*
1952

Dwight Robert Ladd (B) (C), *Assistant Professor of Business Administration*
A.B., Brown, M.B.A., Harvard. 1951

Ulrich Leupold (W), *Director of Music and Lecturer in Religious Knowledge*
Ph.D., Berlin. 1945

Doris Irene Lewis (Mrs. M. E.) (W), *Lecturer in Library Science*
B.A., Toronto. 1949

Ralph Anthony Ludwig (C), *Honorary Lecturer in Botany*
B.S.A., Alberta, M.Sc., *ibid.*, Ph.D., McGill. 1951

Hubert Martin (C), *Honorary Professor of Chemistry*
B.Sc., London, M.Sc., *ibid.*, D.Sc., *ibid.*, A.R.C.S., F.R.I.C. 1951

Caroline McKenzie (C), *Lecturer in Library Science*
B.A., Sask., B.L.S., McGill. 1951

Murray McNie (C), *Instructor in Physical, Health, and Recreation Education*
1948

Alice Metzger (W), *Lecturer in Mathematics*
B.A., M.A., Queen's. 1953

Orlo Miller (C), *Lecturer in Journalism*
1953

William Harold Minshall (C), *Honorary Lecturer in Botany*
B.S.A., Toronto, M.Sc., McGill, Ph.D., *ibid.* 1951

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* On leave, second term.

HECTOR ALEXANDER URQUHART MONRO (C), *Honorary Lecturer in Zoology*
B.Sc. (Agr.), McGill, M.Sc., *ibid.* 1951

CAROLYN MORDEN (W), *Lecturer in Physical Education*
B.P.H.E., Queen's. 1951

REGINALD ROSS ORT (C), *Instructor in Physical, Health, and Recreation Education*
B.A.; Secretary, W.O.S.S.A. 1952

WILLIAM JOHN PILLSWORTH (C), *Lecturer in Physical, Health, and Recreation Education*
B.A., M.A., New York Univ. 1951

HELEN MARGARET ROSSITER (C), *Lecturer in Health*
M.B.Ch.B., Edinburgh, D.A., London; University Physician. 1948

JAMES R. SCOTT (C), *Lecturer in English*
B.A., Toronto. 1948

URITH TAYLOR SEYMOUR (Mrs.) (W), *Lecturer in English*
A.T.C.M., Toronto, L.C.S.E., *ibid.* 1945

EDWARD MCLEOD SHORTT (C), *Lecturer in Economics*
B.A., Toronto, Barrister-at-Law, Osgoode, LL.B., Toronto. 1949

EARL HUBERT SLATER (C), *Lecturer in Economics and Journalism*
B.A., Toronto, Barrister-at-Law, Osgoode. 1951

BEVERLEY NORTHCOTTE SMALLMAN (C), *Honorary Lecturer in Zoology*
B.A., Queen's, M.A., Ph.D., Edinburgh. 1951

ELVINS SPENCER (C), *Honorary Lecturer in Chemistry*
M.Sc., Alberta, Ph.D., Toronto, F.C.I.C. 1951

RALPH ERNEST TAILBY (W), *Lecturer in Business Administration*
B.A., C.P.A., Ontario. 1953

ELEANOR GRAVES TORRENS (Mrs. R. W.) (C), *Lecturer in Economics*
A.B., North Carolina, M.A., *ibid.* 1945

CARL TOTZKE (W), *Lecturer in Physical Education*
B.A. 1953

C. ROBERT TURNBULL (C), *Lecturer in Journalism*
1952

WILSON ROBERT WAUGH (B) (C), *Assistant Professor of Business Administration*
B.A. 1946

LENHARD SCOTT WOLFE (C), *Honorary Lecturer in Zoology*
B.Sc., New Zealand, M.Sc., *ibid.*, Ph.D., Cambridge. 1953

HENRY WILKES WRIGHT (W), *Lecturer in Psychology*
B.A., Cornell, Ph.D., *ibid.*, LL.D., Manitoba. 1953

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SUMMARY OF REGISTRATION IN FACULTY OF ARTS AND SCIENCE 1953-54

Year in Course	University College		Huron College	Ursuline College	Waterloo College	St. Peter's College	Music Teachers College	Totals
Full Time:								
First		17*	1	15	65	3	11	112
Second		815**	10	32	82	20	14	973
Third		190	6	20	31	10	5	262
Fourth		282	8	29	41	11	5	376
Graduate		67	....	....	....	....	....	67
								1,790
Part Time:								
Graduate		11	....	....	....	....	....	11
Undergraduate		24	5	86	49	4	1	169
								1,970
Correspondence	257	.....	....	....	....	....	....	257
Summer School	550	.....	....	....	....	....	....	550
Extension	679	.....	....	....	....	....	....	679
TOTALS	1,486	1,406	30	182	268	48	36	3,456
Duplicates								428
								3,028

*Entered with Grade XII only.

**In Second year Pass courses, 493; in second year Honors, 322.

SUMMARY OF REGISTRATION IN THE WHOLE UNIVERSITY

Faculty of Arts and Science:	University College Intramural	1,406	
	Summer School, Correspondence, Extension (less Duplicates)	1,058	
	Affiliated Colleges	564	
			3,028
Faculty of Medicine:	Graduates	37	
	Undergraduates	240	
			277
School of Nursing:	Graduate Nurses		89
School of Business Administration:	Graduates	86	
	Seniors	76	
	Juniors	69	
			231
UNIVERSITY TOTAL			3,625