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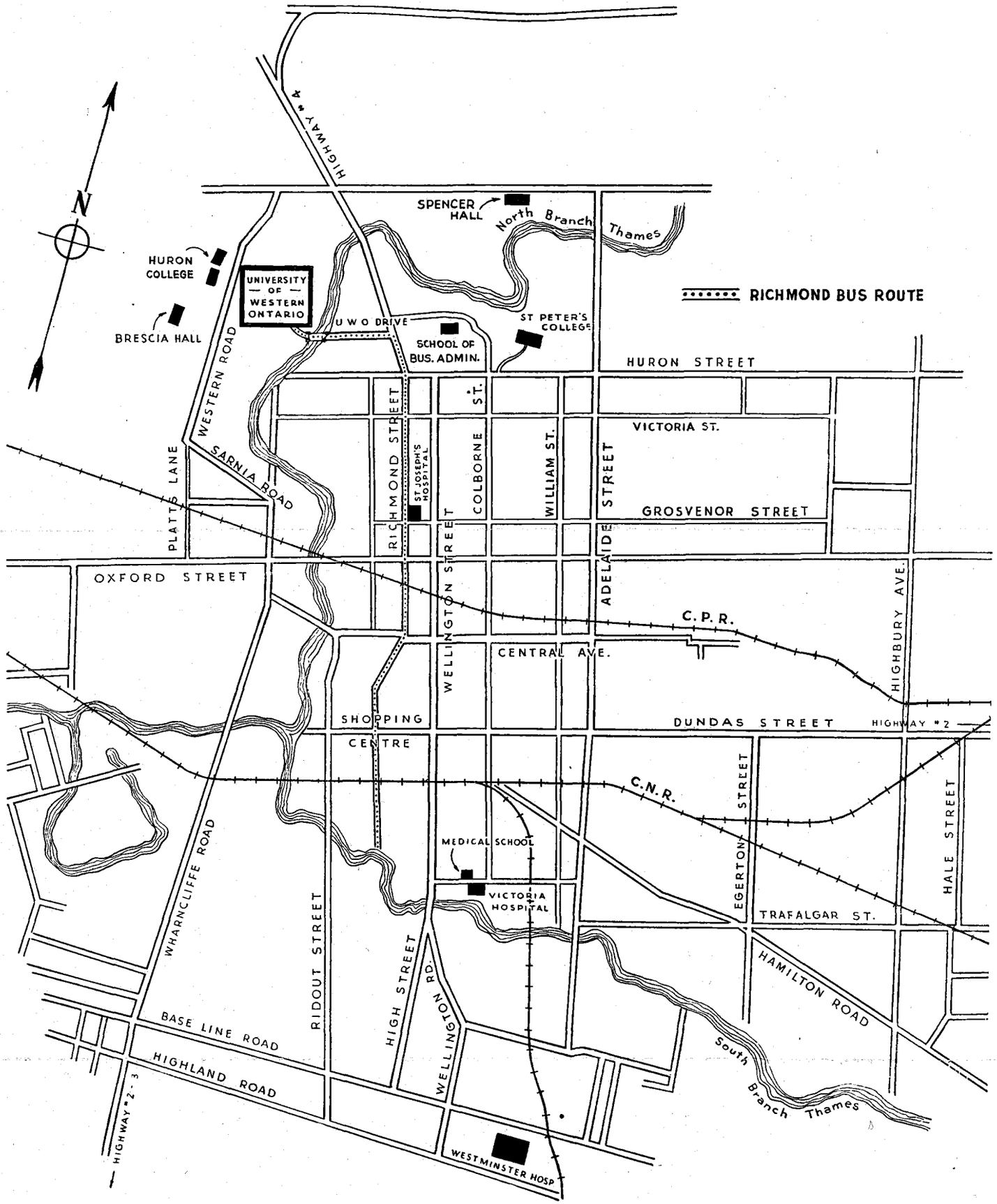
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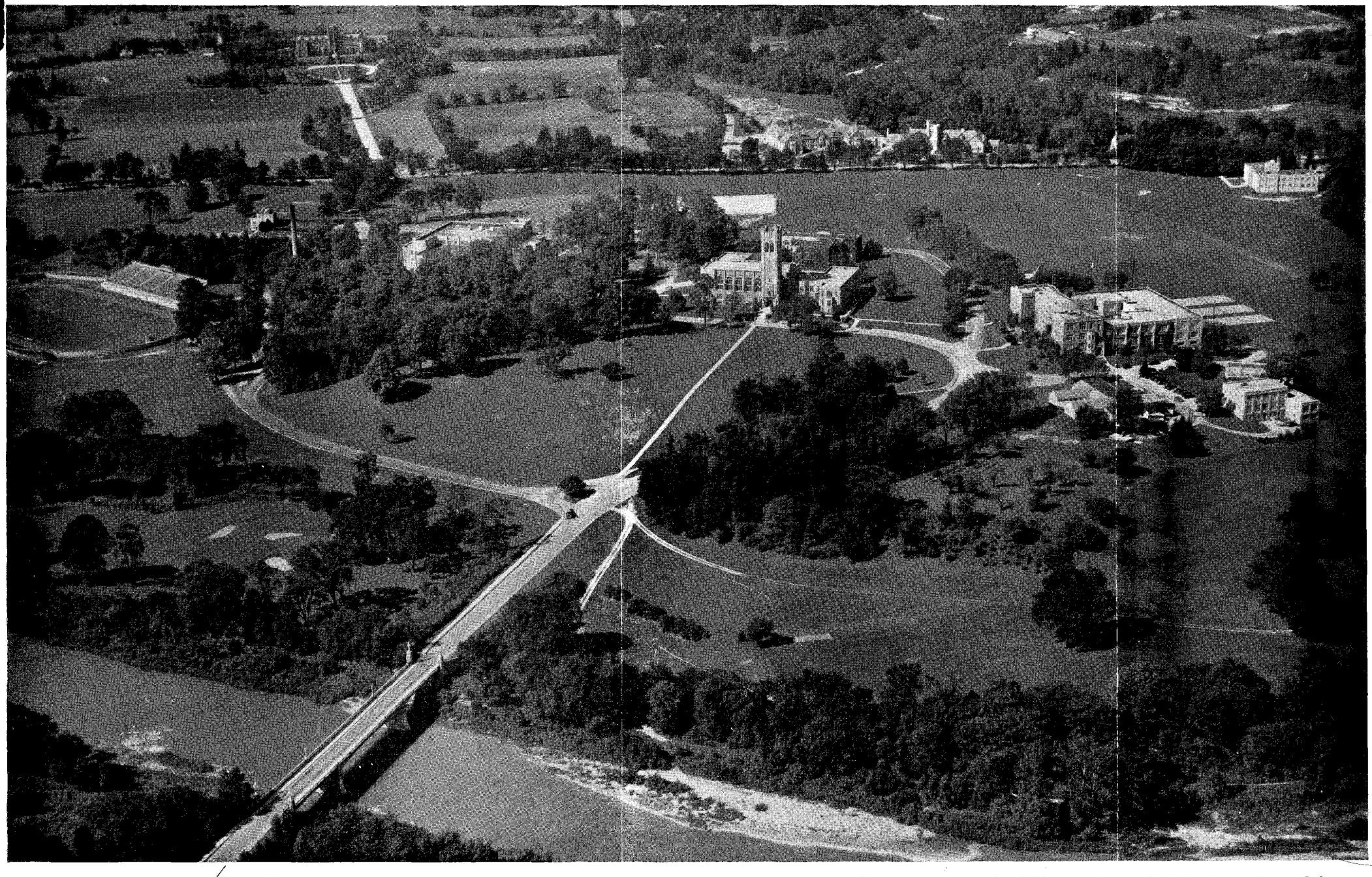
LONDON, CANADA

ARTS AND SCIENCE



1955 — 1956


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North Branch
Thames
HURON COLLEGE
UNIVERSITY OF WESTERN ONTARIO
BRESCIA HALL
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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.
ADELAIDE STREET
VICTORIA ST.
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

Stevenson Hall (Administration) and a new dining hall are in process of erection, north and south of the Lawson Library, respectively.

UNIVERSITY OF WESTERN ONTARIO

LONDON - CANADA

FACULTY of ARTS and SCIENCE

UNIVERSITY COLLEGE
HURON COLLEGE
URSULINE COLLEGE
ST. PETER'S and
CHRIST THE KING COLLEGES
WATERLOO COLLEGE
MUSIC TEACHERS' COLLEGE

ANNOUNCEMENT 1955-56

THE VALUE OF A UNIVERSITY

"There are few earthly things more splendid than a University. . . . . Wherever a University stands, it stands and shines; wherever it exists, the free minds of men, urged on to full and fair enquiry, may still bring wisdom into human affairs.

"There are few earthly things more beautiful than a University. It is a place where those who hate ignorance may strive to know, where those who perceive truth may strive to make others see; where seekers and learners alike banded together in the search for knowledge, will honour thought in all its finer ways, will welcome thinkers in distress or in exile, will uphold the dignity of thought and learning and will exact standards in these things. They give to the young in their impressionable years the bond of a lofty purpose shared, of a great corporate life whose links will not be loosed until they die. They give young people the close companionship for which youth longs, and that chance of the endless discussion of the themes which are endless, without which youth would seem a waste of time."

—JOHN MASEFIELD, *in an address at the University of Sheffield.*

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Calendar for 1955

1955 JANUARY 1955						
SUN	MON	TUE	WED	THU	FRI	SAT
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Calendar for 1956

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23/30	24/31	25	26	27	28	29

ACADEMIC CALENDAR OF THE FACULTY OF ARTS AND SCIENCE, 1955

July 4, Monday.....Summer Session begins.
August 4 and 5, Thursday and Friday.....Supplemental examinations.
August 13, Saturday.....Summer Session examinations end.
September 1, Thursday.....Last day for receiving applications and certificates for the Winter Session.
September 6, Tuesday.....Aptitude tests for prospective students without the full admission requirements.
September 19, Monday.....Conference of the Faculties of all Arts and Science Colleges.
September 20, Tuesday.....Registration of new students from Brant, Elgin, Essex,
8:30 to 12:30..... Lambton and Middlesex Counties.
2:30 to 5:00.....Physical examinations of the same students.
September 21, Wednesday.....
8:30 to 12:30.....Registration of new students from other centres.
2:30 to 5:00.....Physical examinations of the same students.
8:00 p.m......Official welcome and Faculty reception.
September 22, Thursday.....Registration of second, third and fourth year Arts and Science students from Brant, Elgin, Essex, Lambton and Middlesex Counties.
Prescribed meetings for all new students.
September 23, Friday.....Registration of second, third and fourth year Arts and Science students from other centres.
Prescribed aptitude tests for all new students who did not take them on September 6th.
September 26, Monday.....Lectures begin for all students, graduate and undergraduate (Graduate students may attend classes without registering until October 4th).
Late charge of two dollars begins for undergraduates (for a medical examination).
October 1, Saturday.....Last day of application for degrees and diplomas at the Autumn Convocation.
October 4, Tuesday.....Registration of graduate students.
October 8, Saturday.....Last day of registration for full-time students (graduate and undergraduate); late charge of two dollars (for a medical examination) continues for all late registrants.
October 10, Monday.....Thanksgiving Day; classes cancelled.
October 28, Friday.....Autumn Convocation.
November 11, Friday.....Remembrance Day ceremony.
December 17, Saturday at noon.....Christmas vacation begins.

1956

January 3, Tuesday.....Lectures resume.
January 16, Monday.....Second term begins.
March 7, Wednesday.....Founders' Day ceremonies.
March 30, Friday.....Good Friday; classes cancelled.
April 14, Saturday.....Second term classes close.
April 21, Saturday.....Examinations begin in Arts and Science.
April 28, Saturday.....Last day of application for degrees and diplomas at the Spring Convocation.
May 5, Saturday.....Examinations end.
May 26, 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. E. P. DIGNAN, LIEUT.-COL. D. B. WELDON, M.C., MR. W. H. HEMPHILL.

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

By the Board of Governors: MR. LOUIS L. LANG, MR. C. F. STEVENS.

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

Officers of the Board

DR. A. T. LITTLE,	*Chairman Emeritus*
LIEUT.-COL. GORDON INGRAM,	*Chairman*
LIEUT.-COL. D. B. WELDON,	*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: 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

FACULTY OF ARTS AND SCIENCE

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

Faculty Council
Chairman, THE PRESIDENT
Secretary, THE REGISTRAR

PRINCIPAL W. R. COLEMAN,	*Faculty of Huron College*
PROFESSOR R. K. HARRISON,	*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 RIGHT 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. DOMINICA,	*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
FRANK STILING, M.A., Ph.D.

Secretary of the Faculty
PROFESSOR W. W. JUDD, M.A., Ph.D.

Representatives on the University Senate
PROFESSORS N. C. HART, M.A. and R. W. TORRENS, M.A., Ph.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 (and Christ the King College of Arts) London; Waterloo College, Waterloo; 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 Public Health Nursing (D.P.H.N.); Diploma in Nursing Education (D.N.E.); 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 170,000 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 210,000 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.

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 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.

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.

RESIDENCES

For information about University Residences consult the Admissions Handbook, or the Housing Bureau which is active after August 1st each year.

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 distinction 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. Home Economics is the only Course in University College to which students may be admitted without Senior Matriculation standing. The affiliated colleges, however, admit students to all courses but Science or Premedicine 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), Geography, **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

*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.

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.

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.

*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.

Subject to the admissions requirements (see page 12, Sections A and B), students presenting Grade XII, or Grade XII and Grade XIII, certificates will register in one of the Junior Groups or one of the specialized courses (page 22).

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.

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 course of forty-eight months. 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

General Course

The regular examinations will be held in April and May.

Students in the General Courses will be ranked in order of merit in each course in six grades, A, B, C, D, E, F. The minimum for Grade A is 75 per cent. of the marks obtainable; for Grade B, 66 per cent.; for Grade C, 60 per cent.; for Grade D, the minimum passing grade, 50 per cent. A mark that falls in Grade E, 40 to 49 per cent., entitles the student to a supplemental, subject to the regulations governing supplementals (see page 16). Grade F, less than 40 per cent., indicates a total failure and the necessity of repeating the course in class.

No student will be admitted to the degree of Bachelor of Arts in the (old) General Course, 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 to cover the broad aspects 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.***) 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) Courses for Teachers

University College offers two courses (the General Course and the Teachers' 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. These courses are 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 II below); or

(2) A General Course or a Teachers' Course Degree in Arts with a standard of 66 per cent. on the work of the final year of the course, and with standing in English in any three of the first, second, third and fourth year courses of study.

To meet the requirements of the University, a candidate must, of course, satisfy the attendance regulations for his degree.

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 two summer sessions, or for five summer sessions. This require-

NOTE: Graduates in general courses who wish to obtain Type A standing should consult the Registrar. Geography is the only subject in which it can be obtained through Summer Session and Correspondence work.

ment 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 subjects that do not include Science, Mathematics, Psychology, Business Administration, 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 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
Engineering; Pre-Medicine; 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	3.50
Graduate Record Examination (institutional plan)	5.00
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.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

For the general admission requirements, see page 12.

An applicant presenting the full requirements may expect to graduate with a General Course degree in three years, or with an Honors Course degree in four years, subject to the provisions of each course.

Every prospective Honors Course student enters Junior Group 1 *or* Junior Group 2 of the General Course, and at the end of his first year decides whether to remain in the Gneral Course or to enter the second year of the Honors Course of his choice.

Every prospective General Course student enters Junior Group 1 or Junior Group 2 *or* one of the specialized Courses (II-IX, on pages 26-30). Those who enter Junior Group 1 or 2 may decide at the end of their first year whether to remain in the General Course or to enter the second year of one of the Honors Courses.

The purpose of the Junior Group system is to postpone a freshman's decision regarding his course until the end of his first year, when he is more likely to choose intelligently than if his decision is made while he is still in the secondary school.

I. GENERAL COURSE WITH JUNIOR AND SENIOR DIVISIONS

(1) 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, for teaching in the elementary or secondary schools of Ontario.

(2) If it is permitted by the Admissions Committee, a deficiency in one subject of Grade XIII may be made up, in the first year, through the completion of an appropriate University College course.

Junior Group 1

(a first year composed mainly of Mathematics and Science subjects)

Requirements for Admission: Grade XIII standing in English, Mathematics (three papers), French or German or Latin, Chemistry and Physics. For admission to Honors Biology, it is advisable to take Botany or Zoology (or both) instead of Trigonometry and Statics.

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

*These are half-courses or less than half-courses, in weight

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

A student expecting to enter an Honors Course should consult the program of his proposed course (pages 30-45) before selecting his options in Junior Group 1.

Junior Group 2

Requirements for Admission: Grade XIII standing in English, Latin or Mathematics (any two of Algebra, Geometry, Trigonometry and Statics), and two of: History, Biology, Physical Science (Physics and Chemistry), Music, one or more languages other than English. It is advisable that one foreign language be selected in Grade XIII; otherwise at least two years of work in one language must be done in the University.

Subjects
English 20
French 20 *or* another language 20
Latin 20 *or* Mathematics 20 *or* a 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

*Subjects**
English 29
Health Lectures
Library Science
Physical Education

*These are half-courses or less than half-courses, in weight

(1) This group is the prerequisite of the following Honors Courses: 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, and Honors Physical, Health and Recreation Education.

Junior Group 2 is acceptable for Honors Geography, Honors Mathematics (without Physics), Honors Philosophy, and Honors Psychology.

A student expecting to enter an Honors Course should consult the program of his proposed course (pages 30-45) before selecting his options in Junior Group 2.

(2) No Grade XIII or Junior Matriculation standing is to be allowed to substitute for a natural science in a Junior Group.

(3) No course numbered between 1 and 9 may be counted toward a degree unless followed by a second course in the same subject.

(4) Not more than one course from those numbered between 10 and 19 may be counted toward a degree in the General Course.

Senior Groups A and B

(Group A follows Junior Group 1; Group B follows Junior Group 2)

When a student enters a Senior Group, he must select a Major and a Minor subject from the Humanities (Division A), the Social Sciences (Division B), or the Natural Sciences (Division C).

See the next page for complete list of the subjects in each Division.

The student, having selected his Major subject, must consult with the Head of the Department in which his Major lies, regarding his choice of courses. Some Heads of Departments will permit General Course students to do some Honors work.

The Major and the Minor subject may not be selected from the same Division nor from Division D.

A Major subject consists of three (but not more than four) courses from the same Department; two courses in the same Department constitute a Minor subject.

All Major and Minor courses must be "Senior" courses.

Two of the Major courses shall be taken in the final year.

For additional regulations, see the next page.

Senior Group A (open to any student who has completed Junior Group 1)

Second Year

Subjects

French 20 or German 20 or Latin 20
Economics 20
Two subjects from the Major field (presumably from Division C)
One subject from the Minor field* (presumably from Division A or B)
One subject* from: English (32, 36, 38, 45, 49), History 36, Philosophy 30 or 32, Psychology 30

*All four subjects must be taken ultimately. If one of them is selected as a Minor, another ought to be taken as the sixth subject in the second year.

Third Year

The courses not selected previously from: Senior Group English, History 36, Philosophy 30 or 32, Psychology 30
Two subjects from the Major field
One subject from the Minor field

Note: It may be necessary to do one more subject to ensure having three Senior courses from Division A and three Senior courses from Division B. Students may also take one or more courses from Division D, but only as extra courses.

Senior Group B (open to any student who has completed Junior Group 2)

Second Year

Subjects

Two subjects** not previously selected from: Economics 20, History 20, Philosophy, Psychology 20, a laboratory course in Natural Science.
English 32 or 36 or 38 or 45 or 49.
Two subjects from the Major field of study (unless it is English, in which case only one other English course may be taken this year; a Senior option should be selected instead of the second course)
One subject from the Minor field of study

**All five subjects must be taken ultimately; if you did not select Philosophy 20 in your Junior Group, select Philosophy 30 in the Senior Group.

Third Year

A laboratory course in Science (unless both courses from Division C have been done, in which case a Senior option should be selected)
Two subjects from the Major field
One subject from the Minor field
One option from Senior courses

General Regulations Regarding the Whole Course

(1) If any course has been taken in a Junior Group, it may be counted once only towards a degree and will not count also in the Senior Group.

(2) At least three Senior courses must be taken from Division A and three Senior courses from Division B. Two courses (one a laboratory course) must be taken from Division C. No more than two courses may be taken from Division D.

(3) No more than five courses may be taken from one Department(including Junior and Senior Group work).

(4) Sometime before graduation in the General Course, there must be included in every program: Economics 20, History 20 or 36, a course (beyond the Grade XIII level) in a language other than English, a laboratory course in a natural science, Philosophy 20 or 30 (30 or 32 for Science Students), Psychology 20 (or 30 for Science Students), a Senior course in English to be selected from 32, 36, 38, 45, 49.

(5) Eight of the eleven courses of the two final years must be "senior" courses. At least six of them must be taken at this University (transfer credit from other colleges or universities cannot cancel these six).

(6) In the two final years, *an average of 60% must be obtained in the Major subject, with 60% in each of six courses* out of the eleven courses required in the Senior Group. The average in the work of the final year is also important.

Any student who entered the University before September, 1954, may complete the old General Course or the new course. For details about the old course, see the Registrar's Office.

THE NEW GENERAL COURSE IN ARTS AND SCIENCE

JUNIOR AND SENIOR GROUP COURSES WHICH CONSTITUTE THE SEVENTEEN-COURSE PROGRAM

(Six full courses in each Junior Group, six in the second year, and five in the final year)

JUNIOR COURSES

DIVISION A

(The Humanities)

AT LEAST FOUR COURSES ARE TO BE SELECTED (three of which must be Senior Courses)

Departments

Classics:
Greek 1, 10, 20, 29
Latin 1, 10, 20
English 20
German 1, 10, 20
Hebrew 1-10 or 1 and 10, 20
Music 10, 20
Philosophy 20
Romance Languages:
French 10, 20
Italian 1, 10, 20
Spanish 1-10 or 1 and 10, 20

DIVISION B

(The Social Sciences)

AT LEAST FOUR COURSES ARE TO BE SELECTED (three of which must be Senior Courses)

Departments

Economic and Political Science:
Economics 20,
Sociology 28
Geography 20
History 20
Psychology 20

SENIOR COURSES

Classics:
Greek 30, 40
Latin 30, 39, 40
English 32, 36, 38, 45, 49 (39, 46 under specific conditions)
German 22, 30, 31, 40, 41, etc.*
Hebrew 200, 30 (300), 40 (400)
Music 30
Philosophy 30, 31, 35, 36, 42, 43, 44, 47, 48, etc* *OR***
Romance Languages:
French 30, 40, 48, 270 or 271, 290, etc.*
Spanish 30, 31, 40, 41, 250, 360*

Economic and Political Science:
Economics 30, 33, 34, 44, 46, 257, 351a, 353, 355, 450, 453
Politics 32, 42, 351b, 452, 462b
Sociology 38, 39x, 48, 49
Geography 30 (330), 35 (335), 39 (239), 40 (440), 44 (444), 45 (445)
History 31, 33, 35, 36, 44, 337b or 354b or 356a, and 30 (see the conditions below) ****
Psychology 30, 35, 36, 38, 39, 46, 48, 49 (38 is only for those who have had 35)

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*Honors Courses by permission of the Head of the Department only.

**In the affiliated colleges, Philosophy 30x-36x, 42x-47x.

***If the prerequisites of the corresponding Honors courses have been satisfied.

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

THE NEW GENERAL COURSE IN ARTS AND SCIENCE

JUNIOR AND SENIOR GROUP COURSES WHICH CONSTITUTE THE SEVENTEEN-COURSE PROGRAM

(Six full courses in each Junior Group, six in the second year, and five in the final year)

JUNIOR COURSES

DIVISION C
(The Natural Sciences)

AT LEAST TWO COURSES ARE TO BE SELECTED (one of which must be a laboratory Science)

Departments

Botany 20
Chemistry 20
Geology 20 or 21
Mathematics and Astronomy 20, 23, 24, 29
Physics 20, 21
Zoology 20, 21, 23, 24, 25

DIVISION D
(Other Subjects)

These subjects may not be used as Major or Minor subjects and NOT MORE THAN TWO COURSES may be counted toward a General Course degree.

Departments

Business Administration 20
Home Economics 23, 25, 26
Journalism 20
Military Studies
Physical, Health and Recreation Ed. 20
Religious Knowledge (in the affiliated colleges) 10x, 20x, 21x
Secretarial Science (not available for General Course students; those who have transferred from Secretarial Science to the General Course may count their two best courses from Secretarial Sc. 28, 29, 30, 36, 37, 38, 39)

SENIOR COURSES

Botany 31a, 32b, 33a, 36b, 43b, etc.*
Chemistry 32, 33, 44, 46
Mathematics 30, 34, 35, 42, 45a***
Physics 35 etc.*
Zoology 34, 41, 347

Biblical Literature (Old or New Testament 40x)
Business Administration 250
Home Economics (not available for General Course students)
Journalism*
Physical Health and Recreation Ed. 251, 258, 266, 352, 353, 375, 382
Religious Knowledge (in the affiliated Colleges) 30x, 31x, 32x, 40x, 41x, 42x, 43x, 44x,
Secretarial Science (not available for General Course students)

NOTE: Students who plan to enter professional Schools of Social Work must include Economics 20, Psychology 20 (or 30) and Sociology 28 in their Arts programs; Politics 32, Psychology 36, 49 and History 31 are also advisable.

II. GENERAL COURSE WITH SECRETARIAL SCIENCE OPTIONS

Second Year

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

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

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 92.

IV. GENERAL COURSE WITH HOME ECONOMICS OPTIONS

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 32a	*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	
English 32 or 36 or 38	Psychology 20

Fourth Year

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

V. TEACHERS' COURSE

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 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. 90-1). 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.

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*For Ursuline College students only.

Second Year

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

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 94-5)

VII. PREMEDICINE

Requirements for Admission: Grade XIII standing in English and Mathematics (Algebra and Geometry), French or German or Latin, Chemistry and Physics, Botany or Zoology, preferably both. If neither Botany nor Zoology is available, Trigonometry and Statics should be taken.

This University is not merely offering a training in Medicine as a technology, nor is it requiring a full academic degree for admission to Medicine. In common with most universities it has adopted a compromise course, which insists on some cultural background.

The Faculty of Medicine believes that while the science of Medicine is built on the physical and biological sciences, the art of Medicine is dependent on the humanities and the social sciences. For this reason these courses are rightly included as stepping stones and not merely as hurdles. When a medical student realizes this fact, he will derive greater benefit in medicine and a broader outlook on life in general, which is essential if he is to be successful in the broadest sense.

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	

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

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 30

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

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

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 Nursing Education 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.

DEGREE COURSE IN NURSING

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 Nursing Education) 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	*Subjects*
Chemistry 11N or Botany 11N and Zoology 11N	Options (continued):
English 20, 29	English 36, 38
Language of Grade XIII continued	Geography 20
Physical Education	History 30, 31
Three courses (or the equivalent) from:	Journalism 20, 355, 360, 460
Sociology 28, 48 (if not chosen previously.)	Politics 42a
	Psychology 20, 48, 49

HONORS COURSES

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

Biology

Requirements for Admission: Junior Group 1, page 21, 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. *It leads to the degree of Bachelor of Science.*

Second Year

Subjects	*Subjects*
Botany 250	Physics 204
Chemistry 200	Zoology 250
German 5 or Russian 1	One of: Economics 20
Mathematics 35 or 255a (the latter for those who have completed Math. 24)	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	Zoology 347, 350
Chemistry 303	Three of: Botany 354, 361, Zoology 354, 360b
German 35 or Russian 10	

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 22, 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.

This course leads to a Bachelor of Arts degree.

Second Year

Subjects	*Subjects*
Business 250 (Accounting)	Two courses (or the equivalent) from English 32, 36, 38, 44, French 20, 30, 33, 43, History 31, 35, 44, Philosophy 30 or 32, Psychology 20, 46, 49, Spanish 20, 30, 31, Religious Knowledge (one course at Waterloo College)
English 35	
Two of:	
Economics 233, 257, 300, 346	
Politics 232	
Econ. Geog. 239	

Third Year

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 from the Humanities and the Social Sciences, as approved by the Dean of Business Administration
Business 353 (Business Finance)	
Business 354 (Production Management)	
Business 357 (Control)	

Fourth Year

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

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

Requirements for Admission: Group 2, page 22, 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 250 (Accounting)	Economics 233, 257
Geography 39	Secretarial Science 28, 29, 36

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 or Philosophy 30
	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

Requirements for Admission: Group 1, page 21, 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. It leads to the degree of Bachelor of Science.

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. It leads to the degree of Bachelor of Science.

Second Year

Subjects	*Subjects*
Chemistry 200, 252	Mathematics 254, 255a
German 5 or Russian 1	Physics 251, 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 22, 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 22, 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 39
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 334, 342a, 342b, 351b, Psychology 20 or 46, Sociology 338, 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 334 or 452
Two courses (or the equivalent) from: Geography 35, 45, Math. 455, Politics 444a, 462b, Psychology 48, 49,

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

English Language and Literature

Requirements for Admission: Group 2, page 22, 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, 254, 280
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 (new 280), 459, 460, 463
English 441 or 470
French 490 or German 480 or Latin 450, 452 or Greek 452

English and French

Requirements for Admission: Group 2, page 22, 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, 254, 280	German 290 or Latin 230, 250, or *Spanish 230 or 340, 231
French 270, 271, 290	
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
French 380, 381

Greek 29

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 (new 280), 459, 460

French 450, 490, 491

English and German

Requirements for Admission: Group 2, page 22, 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, 254, 280	One of: French 270, Greek 20, Latin 230, 250, Politics 32, Russian 10, Spanish 20 or 230
German 290, 291	
History 36	

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
German 333, 390, 391

One of: Economics 20, French 380, Latin 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 (new 280), 459, 460

German 420, 480, 481

English and Latin

Requirements for Admission: Junior Group 2, page 22, 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, 254, 280	Latin 230, 250, 251
Greek 29	French 270 or Greek 20 or Greek 230 and 250 or German 20 or 290
History 257	

*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
Latin 340, 350, 351, 352
History 35

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 (new 280), 459, 460
Latin 450, 451, 452, 453, 457

English and Philosophy

Requirements for Admission: Junior Group 2 (including History), page 22, 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 254, 280	Two courses of options approved by the Heads of the two major Departments.
Philosophy 230, 231	

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 (new 280), 459, 460
Philosophy 457, 448, and one of: 443, 456, 462, 466

English and Philosophy

COURSE B (Language Option)

Second Year

Subjects	*Subjects*
English 254, 280, and 236 or 358	*French 270, 271 or German 290, 291 or Latin 230, 251
Philosophy 230, 231	

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 (new 280), 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 22, 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 21) or Junior Group 2 (page 22) 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. It leads to a Bachelor of Arts degree.

Second Year

Subjects	*Subjects*
Geography **20, 239	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 239), 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, 444, 445, (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 21, with an average of 60% in the Science subjects and not less than 60% in Geology 20.

This course leads to a Bachelor of Science degree.

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

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

History

Requirements for Admission: Junior Group 2, page 22, 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)

Subjects
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 239
Geography 335* or Psychology 20
History 35, 331, 333a, 354b (or Russian 337a or b), 356a

Economics 233* or English 280, 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
Geograph 239

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 45.

Mathematics

Requirements for Admission: Junior Group 1, page 21, with an average of 60% in the Science and Mathematics subjects, and at least 60% in Mathematics;

OR

Junior Group 2, page 22, with at least 60% in Mathematics 20.

This course leads to the Bachelor of Arts degree, and to Type A, High School Assistants' qualification if Algebra, Geometry, Trigonometry and Statics have been completed in Grade XIII and if Mathematics 353 is selected.

Second Year

Subjects
German 5
Mathematics 230, 234, 242, 245a
Three options (not previously selected) from:
Economics 20, 233, English 35, History 36, Philosophy 230, 231,

Subjects
Options (continued)
Politics 32, Psychology 30, a laboratory course in Natural Science at the 20-29 level

Third and Fourth Years

Identical with the Honors Mathematics Major, or with the Actuarial Science Major, of the Honors Mathematics and Physics Course which follows.

Mathematics and Physics

Requirements for Admission: Junior Group 1, page 21, 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 230, 242, 245a, 254

Subjects
Physics 250, 251, 254, 255

Note

In the two final years of this course, a student may select one of four Major studies:

The Honors Mathematics Major, leading to the B.A. degree.

The Honors Actuarial Science Major, leading to the B.A. degree.

The Honors General Physics Major, leading to the B.Sc. degree (see page 43).

The Honors Radio Physics Major, leading to the B.Sc. degree (see page 44).

All four Major studies are accepted by the Department of Education as academic qualification for the High School Assistant's Certificate, Type A, in Mathematics (from the B.A. courses) or in Mathematics and Physics (from the B.Sc. courses).

For admission to the two final years of each Major plan, an average of 66% is required in the Honors Courses of the previous year, and an average of 60% in all other subjects.

Honors Mathematics Major
and
Honors Actuarial Science Major

(1) In the Third and Fourth Years of each of these Major studies there is a principal sequence of three required Mathematics courses, augmented by five other courses for a minimum requirement of eight courses a year.

(2) **Courses marked with asterisks are compulsory for Actuarial Science students,** who are prepared 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

Subjects
Business 250* or English 44
German 35
Mathematics 350, 351, 356
Two of:
Mathematics 353* (required for the Type A Certificate), 358, 359, 363*,
Physics 350, 351, 353

Subjects
One course (not previously selected) from:
Economics 20, 233, English 35, History 36, Philosophy 230, 231, Politics 32, Psychology 30, a laboratory course in Natural Science at the 20-29 level

Fourth Year

Subjects
Mathematics 450, 456, 470
Three of:
Mathematics 452, 454, 455, 460, 463*,
Physics 456, 457
Either English 44, or French 45 and German 45 combined

Subjects
One of:
Business 353*, Economics 300, History 30 (if neither 20 nor 36 has been selected previously), Politics 34

For the Honors Physics Major (leading to the B.Sc. degree) see page 43.

For the Honors Radio Physics Major (leading to the B.Sc. degree) see page 44.

Modern Languages and Literatures

Requirements for Admission: Group 2, page 22, 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
English 35
French 270, 271, 290
German 290, 291 or *Spanish 230 or 340, 231, 250 or 360

Subjects
Greek *29
At least one course in a foreign language not chosen as a major.

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
German 333, 390, 391 or Spanish 340 or 230, 341, 360 or 250

History 30
At least one course in the minor foreign language of the Second Year

*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.

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.

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

Philosophy

(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. 26, 92, 102) 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 A Natural Science 21 not chosen previously	Philosophy 230, 231 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 Philosophy 335, or 350 A course in Psychology	Two courses from options approved by the Department of Philosophy

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

Requirements for Admission: Group 2, page 21, 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.

(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
English 35
Physical, Health, and Recreation Ed. 251, 258, 266
First Aid (if not taken previously)

Subjects
English 39
Psychology 36
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

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

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
Politics 32a (or b) and 42a
Psychology 49
One course in History or Geography (to be selected in consultation with the Head of the Department, in accordance with the aim of a connected course in Social Studies)
Physical, Health, and Recreation Ed. 382, 450, 451, 453, 454, 457

(b) Recreation Education Option

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

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 32a (or b) and 42a
Psychology 49
One course of options to be approved by the Head of the Department
Physical, Health, and Recreation Ed. 450, 473, 476, 479, 483

Physics and Mathematics

Honors General Physics Major

Requirements for Admission: Junior Group 1, page 21, with an average of 60% in the Science and Mathematics subjects, and at least 60% in Mathematics and 60% in Physics.

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. It leads to the Degree of B.Sc.

Second Year

Subjects	*Subjects*
German 5	Physics 250, 251, 254, 255
Mathematics 230, 242, 245a, 254	

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.

German 35	Physics 350, 351, 353, 356, 359
Mathematics 356	

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	One of: Economics 20, English 32 or 35,
German 45	Psychology 30, Philosophy 32, Physics 454, 455, 456, 457, 458, 459

Physics

(See Chemistry and Physics, Physics and Mathematics, Radio Physics)

Psychology

(This course is offered in University College only)

Requirements for Admission: Group 1 or 2, page 21 or 22, 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.

Psychology 444, 446, 448, 459	Three optional courses approved by the Dept. of Psychology

Radio Physics

(The Radio Physics Major of the Honors Physics and Mathematics Course)

Requirements for Admission: Junior Group 1, page 21, with an average of 60% in the Science and Mathematics subjects, and at least 60% in Mathematics and 60% in Physics.

(1) 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. It leads to the degree of B.Sc.

(2) 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.

Second Year

Subjects	*Subjects*
German 5	Physics 250, 251, 254, 255
Mathematics 230, 242, 245a, 254	

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.

Economics 20 or Phiosophy 32	Mathematics 356
German 35	Physics 351, 376, 377, 379

Fourth Year

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.

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

DIPLOMA COURSES

(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 66% 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)
- 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

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, W. BARTELINK, A. T. BOLTON, D. LOCKREY

Graduate Fellow: JOHN RUSSELL

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 21 (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 21 (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

Lecturers J. O. BINGEMAN, A. R. BUDDELL

20. **Introduction to Business Organization:** 3 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

Instructor A. J. SUKAVA

Demonstrators A. A. LANG, W. A. SAUNDERS, J. L. THAYER

Fellows and Scholars W. A. ANDREWS, G. M. BROWN, W. C. HOWELL, G. JUST, R. H. PALLEN, J. F. K. WILSHIRE

Research Assistants J. E. MILLINGTON, G. J. O'NEILL

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 RT. REV. T. J. MCCARTHY
Instructor: REV. J. P. FINN

Waterloo College

Assistant Professors A. G. MCKAY and A. B. LITTLE

Huron College

Professor R. K. HARRISON

Ursuline College

Lecturer: MOTHER M. ST. CATHERINE

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. Pliny, *Letters;* Virgil, *Aeneid VI;* 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 Grammar. 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 Professor D. IVOR
Lecturers J. R. W. GWYNNE-TIMOTHY, G. HUSON, MRS. R. W. TORRENS
Instructors K. J. DUNCAN, J. E. KERSELL

Ursuline College

Professor MOTHER M. ST. MICHAEL
Associate Professor MOTHER M. ROSANNA
Instructor: REV. T. L. MCMANUS

Waterloo College

Associate Professor H. O. J. OVERGAARD
Lecturers H. H. BINHAMMER, REV. G. F. DURST, D. C. BUTTERWORTH, W. G. SCOTT

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 1955-56. 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.

34. **Elements of Political Theory:** An analysis of the principal concepts of politics, especially democratic politics.

Prerequisite: Political 32 or instructor's permission. 3 hours a week.

42a. **Municipal Government:** The functions and administration of municipal government especially in Ontario, and the role of municipal government in Canadian politics. 3 hours a week: half course.

42b. **Canadian Government and Politics:** A study of Canadian governmental institutions and Canadian federalism.

Prerequisites: History 31 or Politics 32 or instructor's permission.

3 hours a week: half course.

44a. **American Government and Politics:** A study of American institutions of government and American political processes.

Prerequisite: Politics 32 or History 44 or instructor's permission.
3 hours a week: half course.

Honors Courses

Politics 232, 334, 342a, 342b and 444a are identical respectively with 32, 34, 42a, 42b and 44a, except that additional assignments will be required in 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 Western Political Thought:** The development of western political ideas, from the ancient Greeks, through the Middle Ages to modern fascism, Marxism and liberalism. 3 hours a week.

462b. **Public Adminstration:** An analysis of the structure, management and control of modern civil services.

Prerequisite: Politics 32. 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.

38. **Social Development of Canada:** An examination of processes, problems and theories of social change, using Canadian geographic, econmic, religious and historical data for analysis. 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. Not offered in 1955-6.
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, 338, 348, and 449 are identical respectively with 28, 38, 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. 3 hours a week.

ENGINEERING SCIENCE

University College

Professor L. S. LAUCHLAND (Head of the Department)
Instructor M. P. POUCHER

For information about the courses offered, 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, J. REIDY, F. STILING
Instructors C. E. SANBORN and R. G. WOODMAN
Part-time Instructor J. R. SCOTT
Graduate Assistant G. JOCELYN

St. Peter's College

Professor: RT. 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
Assistant Professor J. C. WOODBURY
Leecturer G. E. REAMAN

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.

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.

280. **Renaissance Literature, Non-Dramatic (1500-1660).** Formerly English 450. 3 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.

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.

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

FRENCH (See Romance Languages)

GEOGRAPHY

University College

Professor E. G. PLEVA (Head of the Department)

Assistant Professor R. W. PACKER

Instructors A. J. BARKER, S. R. BYLES, O. P. LANGTVET

Graduate Assistants MARGARET BELL, R. BEAN, A. COLLIN, R. FLEMING, G. FREMLIN, D. GRAY, C. KELLY, R. KRUEGER, C. F. J. WHEBELL, J. WOODS

Waterloo College

Lecturers H. O. J. OVERGAARD and REV. G. F. DURST

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.

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 39, or equivalent.

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

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, 30, 35, 39.

44. **Geography of Mexico and the United States:** Systematic survey of the human geography of the two countries. 3 lectures a week.
Prerequisite: Geography 20 or 39, or equivalent.

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 39, or equivalent.

Honors Courses

Geography 239, 330, 335, 440, 444, and 445 are identical with 39, 30, 35, 40, 44 and 45 respectively. Students who elect Honors courses will cover additional material and be held stictly 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, 2 laboratory hours 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. 3 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, 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, S. WEYL

Ursuline College

Professor SUSANNE HILLING
Instructor: MOTHER MARY AGNES

Waterloo College

Assistant Professor K. NABERT
Lecturer: W. H. JANZEN

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.

22. **Conversation:** Systematic oral practice for students who wish to develop fluency in speaking German. 2 hours a week: half course.
Prerequisite: German 10 or German 20.

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. **Grammar, 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.

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, A. E. RAYMOND, J. J. TALMAN

Graduate Assistant G. A. ONN

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:** Continental Europe from the Fall of the Roman Empire to the close of the Council of Trent. Lectures, prescribed reading 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 or 36, or for former courses numbered 21, 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 European History:** From the Religious Peace of Augsburg, 1555, to the fall of the First German Republic, 1934. 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

Students of Honors History may substitute History of Russia 337a and 337b for Geography 335, if they are not interested in a Type A (Teacher's) Certificate in History, or they may substitute either History 337a or 337b for History 354b if Type A qualification in History is desired.

236. **Modern History (1555-1934):** For details see History 36. Honors students will be required to do special reading and reports.
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.

337a. **History of Russia:** For details see History 37a (page 87). Lectures and seminars. 3 hours a week: half course.

337b. **History of the Russian Revolution, 1905 to the present:** For details see History 37b (page 87). Lectures and seminars.
3 hours a week: half course.

354b. **History of Latin America.**
Honors students of History may substitute Russian History 337a or 337b for this course. 3 hours a week, lectures and seminars: half course.

356a. **History of International Relations:** 1918 to the present.
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:** Not offered, 1955-6. 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, ADELE MCEACHERN, 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)
Associate 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. MACEE (Head of the Department), R. H. COLE, A. WOODS
Assistant Professor G. P. HENDERSON
Instructor: A. EVANS

Ursuline College

Instructor: MOTHER M. ST. DOMINIC

Waterloo College

Assistant Professors H. K. ELLENTON and ALICE METZGER

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

Prerequisite: Grade XII Mathematics.

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).

23. **Mathematics of Investment:** Interest and discount, annuities certain, amortization and sinking funds, bonds and bond prices, capitalized cost, elementary probability theory with application to life insurance.

Prerequisite: Grade XII Mathematics. 2 hours a week.

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).

24E. **Calculus:** For First Year Engineering Science. 4 hours a week.

Prerequisites: Grade XIII Algebra, Geometry, Trigonometry.

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

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

Prerequisite: Mathematics of Junior Group 1 (page 21).

234. **Calculus:** A second course. 4 hours a week.

Prerequisite: Mathematics 20.

242. **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 21).

Text-books: Magee, *Advanced Conic Sections* (mimeographed).
Olmsted, *Solid Analytic Geometry* (Appleton-Century).

245a. **Statistics:** Introductory probability and statistics.
3 hours a week: half course.

Prerequisite: Mathematics of Junior Group 1 (page 21).

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

Prerequisite: Mathematics of Junior Group 1 (page 21).

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

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).

356. **Anaysis I:** 3 hours a week.

358. **Vector and Tensor Analysis:** Algebra and calculus of vectors, introduction to tensor analysis, applications to metric differential geometry.
2 hours a week.

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 245a. 3 hours a week.

Text-book: Mood, *Introduction to Theory of Statistics.* (McGraw-Hill).

456. **Analysis II:** 3 hours a week.

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, JOHN COOK, 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. 2 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. 2 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. 2 hours a week.

For additional Music Courses, see pages 95-6.

PHILOSOPHY

University College

Professor A. H. JOHNSON (Head of the Department)
Lecturers H. J. JOHNSON and J. A. BRUCE
Instructors W. C. HENRY* and P. R. ROBINSON
Graduate Assistants R. PARK 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, REV. A. F. LOEBACH, REV. W. J. RING, REV. M. J. WILDGEN.

Waterloo College

Lecturers A. R. CRAGG, REV. O. F. HEICK and A. G. MCKAY

Huron College

Professor W. T. T. HALLAM

Note: In University College, Philosophy 230 is a prerequisite for all Honors Courses in Philosophy except 231; Philiosophy 20 or 30 is a prerequisite for all Pass courses in Philosophy except 31, 32, 42. These prerequisites may be waived at the discretion of the instructor.

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 this year or has taken another course in Philosphy). 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 Problems of Knowledge:** First term—Logic: meaning and definition, formal logic, verification of knowledge and scientific method; second term—Problems of Knowledge, 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.

*On leave, 1954-55.

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. Not offered, 1955-6. 2 hours a week.

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

Prerequisites: Two courses in Philosophy and the consent of the Head of the Department.

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, Bergson, 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), 444 (44), 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. Not offered, 1955-6. 2 hours a week.

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

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. Not offered, 1955-6.
Prerequisite: Philosophy 336. 2 hours a week.

PHYSICAL, HEALTH, AND RECREATION EDUCATION

University College

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

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

Lecturer M. S. YUHASZ

Instructors ELIZABETH ALLAN, MRS. ELFRIDA KUKAINIS, M. MCNIE, CATHERINE MILES

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

Ursuline College

Instructor HELEN KORRI

Waterloo College

Lecturers ASTRIDE APINUS 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. H. ADLINGTON, R. E. DAVIS, W. R. JARMAIN, G. V. MARR, C. E. MONTGOMERY, D. ROBINSON, R. C. SAHNI

Research Fellows C. CROWE, M. A. EDWARDS, H. I. S. FEGRUSON, J. A. FULFORD, F. R. HUNT, D. PLEITER

Demonstrators R. S. CASS, R. E. GREENWOOD, W. B. MUIR

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 Senior 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.

251 **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.

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 G. H. TURNER (Head of the Department)
Associate Professor LEOLA NEAL
Assistant Professor MARY WRIGHT
Lecturer BETTY STEWART
Instructors J. A. WAINWRIGHT and O. WEININGER
Part-time Lecturers C. H. AHARAN and K. G. FERGUSON
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

Assistant Professor W. H. BEXTON
Lecturer 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. 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. **Child 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. 93-4, 99, 101-2.

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 T. BARTROLI, L. J. S. METFORD and R. N. SHERVILL
Graduate Assistant ANNA SCHODERBOECK (Mrs.)

St. Peter's College

Professor: REV. W. F. SIMPSON

Ursuline College

Associate Professor MOTHER M. ROSANNA
Lecturer SUSANNE HILLING

Waterloo College

Assistant Professors JEAN CROSS and J. B. SANDERS
Lecturer I. E. STEWART (Mrs. D.)

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.
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.

48. **French-Canadian Literature:** Lectures and reading on the historical and cultural background and the philosophical and literary contributions of French Canada. Not offered in 1955-6. 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, 1955-6. 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. Not offered in 1955-6. 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. Not offered in 1955-6. 2 hours a week.

Prerequisite: Spanish 20.

340. **Modern and Contemporary Spanish Prose:** Lectures, reading, discussion, reports. 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 culture; lectures, reading, reports. 2 hours a week.

Prerequisite: Spanish 20.

450. **Spanish Lyric Poetry:** Lectures, reading, discussion.

Prerequisites: Spanish 340 and 360. 2 hours a week.

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 Literature 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. Not offered, 1955-6. 3 hours a week.

10. **Intermediate Russian:** Grammar, dictation, translation, composition and conversation. Not offered, 1955-6. 3 hours a week.

Prerequisite: Russian 1.

20. **Advanced Russian:** Special problems of grammar, translation, conversation, composition. Not offered, 1955-6. 3 hours a week.

Prerequisite: Russian 10.

29. **A Survey of Russian Literature:** for those without a reading knowledge of Russion. Not offered, 1955-6. 1 hour a week: half course.

30. **Outline of Russian Literature:** Nineteenth and Twentieth centuries. Not offered, 1955-6. 3 hours a week.

Prerequisite: Russian 20.

37. **History of Russia and the U. S. S. R.:**

(a) Economic, political and social developments from Kiev period until 1905. Not offered, 1955-56. 3 hours a week: half course.

(b) Russia in revolution; economic, political and social change in the U. S. S. R. Not offered, 1955-6. 3 hours a week: half course.

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.

Honors Courses

History 337a, 337b are identical with Russian 37a, 37b, except that additional assignments will be required in the Honors courses.

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

Waterloo College

Assistant Professor WINNIFRED E. BENO

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 timed tests.
12 hours a week.

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

36. **Business Mathematics.** 2 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.

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 timed 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

Preceptor BABARA SHAW

Graduate Demonstrators C. H. BUCKNER, MARJORIE PROUSE, ELIZABETH SCRIBNER, K. R. P. SINGH

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. **Animal Ecology:** To be given in alternate years, next in 1956-57, as Zoology 453. 2 Lectures a week.

Prequisite: Zoology 24.

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 microscopic structure and development of tissues and organs.

Prerequisite: Zoology 24. 1 lecture, 3 laboratory hours a week.

41b. **Entomology:** The biology and economic importance of the insects, and in addition the spiders, mites, crustacea and other arthropods.

Prerequisite: Zoology 20.

2 lectures, 4 laboratory hours a week, one term.

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 microscopic 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 350. 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.

HURON COLLEGE
(*London, Ontario*)
(Founded in 1863)

Principal
THE REVEREND W. R. COLEMAN, M.A., D.D.

Registrar
THE REVEREND R. K. HARRISON, M.Th., Ph.D.

For Officers of Instruction see pp. 118-129.

For the Pre-Theological General Course for students under 21 years of age, see p. 26. 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	Philosophy 20 or 30
Greek 10	Psychology 20
History 31	Religious Education 40x

Third Year

English 32 or 36 or 38	Psychology 39 or 36
Greek 35x	Church History 40x
Philosophy 36 or 31	Philosophy of Religion 40x

Fourth Year

English 35 or 44 or 49	Old Testament 40x
Philosophy 47 or 42	New Testament 40x
Psychology 48 or 49	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

Lecturers: DR. A. H. CROWFOOT, THE REVEREND J. L. HENDERSON

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. ANSDELL

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

Lecturer: THE REVEREND J. L. HENDERSON

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

Lecturer: DR. F. UHLIR

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.

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. 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) 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.

(3) 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.

(4) One subject from the options is to be continued consistently throughout the course. Students who expect to attend the Ontario College of Education should select Geography and History as their options (Geography *or* History in the second year).

(5) A student who enters the University with Senior Matriculation German will do German 20, 30, 40 as his prescribed or his optional language.

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	One of: Economics 20, Geography 20, History 20, Math. 20, Phil. 20, Psych. 20, a second language
French 20 or German 1	
Italian 1 (prescribed for vocal students)	Music 25C or 25T

Third Year

English 32	Two of: Economics 30, Geography 35, History 36, Math. 24, Phil. 30, Politics 32, Psych. 36, a second language
French 30 or German 10	
Italian 10 (prescribed for vocal students)	Music 35C or 35T

Fourth Year

English 36	Two of: Economics 46, Geography 45, Hist. 31, 44, Italian 20 or another language, Phil. 35 or 48, Politics 42, Psych. 49
French 40 or German 20	
Music 45c or 45T	

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.

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.

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*Grade VIII, Practical, and Grade II, Theory; or Grade IV, Theory.
**For course in the History of Music, see Music 10, 20, 30, page 72.

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.

Dean and Registrar

RT. REV. T. J. MCCARTHY, M.A., S.T.D.

For Officers of Instruction see pp. 118-129.

St. Peter's College conducts two institutions: the Philosophy division of St. Peter's Seminary for candidates for the priesthood, and Christ the King College, an Arts College for lay students.

In addition to the course in Honors Philosophy outlined below, all courses offered in University College, and the General courses in Philosophy offered by Ursuline College, are open to students registered in St. Peter's College, subject to the acceptance of the Admissions committees. All laboratory courses in Science are taught entirely in University College.

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.

**For courses in the History of Music, see Music 10, 20, 30, page 72.

Requirements for Admission: Secondary School Graduation Diploma (page 12.)

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. MARINA, B.A.

For Officers of Instruction see pp. 118-129.

All the courses offered in University College, and the Honors Philosophy Course as outlined for St. Peter's Seminary, 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 27. For the descriptions of Home Economics courses, see pp. 67-8.

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

Associate Professors J. J. CARRIGAN, G. F. CHILDS and MOTHER ST. MICHAEL.
Instructor 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. **Theology of 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:** Survey of expressions of social consciousness in worship from Apostolic to modern times. Lectures, readings, seminars on the Encyclicals. 1 hour a week: half course.

40x. **Dogmatic Theology:** Introduction to Theology. Study of revealed truths. 2 hours a week.

41x. **Scripture:** Introduction to the Old and New Testaments. 1 hour a week: half course.

42x. **Moral Theology.** 2 hours a week.

Sociology

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.

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. 118-129.

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	*Subjects*
English 10, 20, 29	Economics 20
Library Science	*History 14 or 20
Math 10, 12, 18 (any two) or 11, or Latin 10	**Greek 1 or 10
Physics 21 or Zoology 21	**German 1 or 10 or French 10 or Latin 10
Physical Education	German 10 or 20 or French 20 or Latin 20
Psychology 20	

SENIOR GROUP

Philosophy 30	Options continued:
Geography 20 or Physics 21 or Zoology 21	Hebrew 1x
English 32, 36, 38, 49 (any two)	History 33a
History 20, 31, 36, 44 (any two)	Latin 26x (Ecclesiastical)
Greek 25x and 35x	Philosophy 31, 42, 43
	Psychology 36, 46, 48, 49
Three courses of options from: English 39	Religious Knowledge 31x, 32x, 43x, 44x
	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.

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.

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.

*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.

Religious Knowledge

31x. **Biblical Literature:** A study of the times, life, and teachings of Jesus based on the Gospels. 1 hour a week: half course.

32x. **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.

43x. **Biblical Literature:** A study of Old Testament history. 1 hour a week: half course.

44x. **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.

(iv) Children of War Dead (Education Assistance) Act

Under the terms of this Act fees and monthly allowances are provided for the children of veterans whose death was attributable to military service. Enquiries should be directed to the nearest District Office of the Department of Veterans Affairs.

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 1955.

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 Union Carbide Canada (Limited) Scholarship

One General Proficiency Scholarship of $2,000 ($500 a year for the duration of an undergraduate course in this University, if the winner maintains scholarship standing satisfactory to the University).

The award will be based on Grade XIII results in Ontario (or Senior Matriculation results from the other provinces of Canada). Both financial need and academic standing will be considered by the Selection Committee (the Chairman of the Scholarship Committee, the Principal, the Dean of Men, the Dean of Women and the Registrar).

The purpose of the award is twofold: to assist deserving students, interested in a business career, to obtain a university education, and to assure larger numbers of men and women trained in universities for future executive and administrative careers in business and industry.

Applications are due on May 1st, and must be accompanied by a letter from each applicant's secondary school Principal concerning his character, study-habits, financial need, and his talents for business or industry, in the Principal's opinion.

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).

*To qualify for one of these Scholarships a candidate must obtain an average of 75 per cent. in six papers.

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, English Language and Literature, 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), Philosophy; Physical, Health, and Recreation Education; Physics and Mathematics, Psychology, Radio Physics and Mathematics, 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 Award: fourth year Home Economics.

The S. F. Glass Awards: Gold Medals for the highest standing in the Honors Economic and Political Science Course, one in Honors Economics and the other in Honors Political Science of the final year.

(Endowed by the estate of the late S. F. Glass of London.)

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: 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 or Psychology.

(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: first year: Sixty dollars.

(d) Premedicine: second year: Sixty dollars.

Scholarships: Sixty dollars each for best standing in the following:

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. Six hundred dollars the second year, four hundred dollars the third year, and two hundred the final year, if he maintains First Class Honors standing, from year to year.

The Johnson's Wax Scholarship: Six hundred dollars a year for a period of three years, to the outstanding man in Junior Group 1 who enters Honors Chemistry or the Chemistry Option of the Honors Chemistry and Physics Course. The selection is to be made by the Scholarship Committee of University College, who may take into consideration the financial need of the applicants; the award is to be announced each Spring, when the Scholarship Committee releases its Spring awards list. If the successful

*In alternate years, next in 1956-7, when the Joseph Henry Marshall Scholarship is not available.

candidate falls below First Class standing in Chemistry or fails to attain reasonably high standing in his accessory subjects, the scholarship shall revert to the top ranking First Class student in the same year provided his financial need warrants his selection.

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 1956-57.

The Andrew Grant Scholarship, No. 2: Sixty dollars; for Honors Economic and Political Science, Third Year. Offered in 1956-57.

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.)

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 Richard and Julia Butler Scholarship: Sixty dollars; for Second Year Honors Botany.

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 Elgin 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: One hundred 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 a graduate of any Canadian University enrolled at this University in a Mycology course; if there is no graduate candidate with good scholarship and financial need, the award shall be made to an undergraduate student in Botany 461a, under the same conditions.

I. O. D. E. (London Air Force Chapter) Bursary: One hundred 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.

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 30, 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.

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 126, 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 and 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.

(iv) Children of War Dead (Educational Assistance) Act

(See Page 104)

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 will be 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.

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. The training during the academic year is designed to prepare the Cadet for the more advanced and concentrated training ashore in the summer. The training afloat provides the practical phase of the courses as well as an opportunity for foreign travel. 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 Regular Army or Militia, through a training program especially designed to meet their requirements.

2. Students are eligible who are:
   (a) British subjects who are in possession of a Landed Immigrant Permit 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 Regular Army.
      (ii) Third year — practical leadership in charge of a troop, section or detachment at a Regular Army 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. R. N. Shervill. Candidates interested in COTC training should apply to Major R. A. Virtue, Resident Staff Officer, Room 117, Thames Hall.

RCAF University Reserve Training Plan (URTP)

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 third 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 winter training lectures. 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. Those interested are advised to make application as soon as possible after registration.

OFFICERS OF INSTRUCTION

Session 1954-55

(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 and Christ the King College of Arts; "U", the staff of Ursuline College; "W", the staff of Waterloo College. 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.*, Ph.D., Chicago. 1953

ELIZABETH ANNE ALLAN (C), *Instructor in Physical, Health and Recreation Education*
B.P.H.E., Toronto. 1954

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

KENNETH GEORGE ANSDELL (H), *Lecturer in Church Music* 1954

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), *Lecturer in Romance Languages*
B.A., *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

WINNIFRED E. BENO (W), *Assistant Professor of Secretarial Science*
B.A. 1947

WILLIAM HAROLD BEXTON (W), *Assistant Professor of Psychology*
B.A., McMaster, M.A., Saskatchewan, Ph.D., McGill. 1954

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

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), *Lecturer 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

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

JOHN COOK (M) (C), *Lecturer in Music*
A.R.C.M., F.R.C.O. 1954

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), *Associate Professor of Journalism*
B.A., Manitoba, M.A., *ibid.* 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

KENNETH JOHN DUNCAN (C), *Instructor in Economic and Political Science*
B.A., Toronto, M.A., *ibid.* 1954

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),
B.A., M.A., Ph.D., Toronto. *Associate Professor of Physics* 1930

GEORGE FREDERICK DURST (W), *Lecturer in History and Economics*
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

ARWEL EVANS (C), *Instructor in Mathematics and Astronomy*
B.Sc., Swansea, M.Sc., Wales. 1954

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*
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 WHICHELLO 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.*, Registrar of Huron College. 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 and Astronomy*
B.A., Toronto, M.A., *ibid.*, Ph.D., *ibid.* 1948

JOHN LANCELEY HENDERSON (H), *Lecturer in Liturgics and Church History*
B.A., B.D. 1954

*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

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

JOHN EDGAR KERSELL (C), *Instructor in Economic and Political Science*
B.A., Queen's, M.A., *ibid.* 1954

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

LYMAN STUART LAUCHLAND (C), *Professor of Engineering Science*
B.A.Sc., Toronto, M.A.Sc., *ibid.* 1954

* On leave 1954-55.

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., M.A., Michigan. 1950

ARTHUR BERNARD LITTLE (W), *Assistant Professor of Classics*
B.A., B.D., M.A., Toronto, S.T.M., S.T.D., Chicago Lutheran Seminary. 1954

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 MARY AGNES (U), *Instructor in English 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.*, Dean and Registrar of College of Christ the King. 1933

IAN ARNOLD MCDONALD (C), *Lecturer in English*
B.A., Sask., M.A., Northwestern. 1948

ADELE MCEACHERN (U), *Instructor in Home Economics*
B.Sc., St. Francis Xavier. 1954

ALEXANDER GORDON MCKAY (W), *Associate Professor of Classics*
B.A., Toronto, M.A., Yale, M.A., Ph.D., Princeton. 1953

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

MURRAY MCNIE (C), *Instructor in Physical, Health and Recreation Education*
1948

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

ALICE MARIE METZGER (W), *Assistant Professor of Mathematics*
B.A., M.A., Queen's. 1954

CATHERINE MARIE MILES (C) *Instructor in Physical, Health and Recreation Education*
B.A. 1954

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

RALPH WILLIAM NICHOLLS (C), *Assistant Professor of Physics*
B.Sc., London, Ph.D., *ibid.*, A.R.C.S. 1948

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), *Assistant Professor of Geography*
B.A., Cambridge, M.A., *ibid.*, F.R.G.S. 1949

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

MELLOR P. POUCHER (C), *Instructor in Engineering Science*
B.Sc., London, M.Sc., *ibid.*, D.I.C., *ibid.* 1954

JOHN DANBY RALPH (C), *Professor of Classics*
B.A., Queen's, Ph.D., Chicago. 1925

ALFRED ERNEST RAYMOND (C), *Associate Professor of Classics*
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

PERRY R. ROBINSON (C), *Instructor in Philosophy*
B.A., M.A., Ph.D., London. 1954

MOTHER M. ROSANNA (U), *Associate Professor of Economics and Romance Languages*
A.T.C.M., B.A., M.A., Catholic Univ. of America; Assistant Registrar of Ursuline College. 1935

ALFRED ROSÉ (M) (C), *Professor of Music in Music Teachers' College; Lecturer in Music*
B.A. 1948

*FLORA ROY (W), *Professor of English*
B.A., Sask., M.A., *ibid.* 1948

MOTHER M. ST. CATHERINE (U), *Lecturer in Classics and Religious Knowledge*
B.A. 1945

MOTHER M. ST. DOMINIC (U), *Associate Professor of Home Economics and Mathematics*
B.Sc., Marywood. 1946

MOTHER M. ST. JAMES (U), *Professor of English*
B.A., Queen's, M.A., *ibid.*; Dean, Ursuline College. 1925

MOTHER M. ST. MICHAEL (U), *Professor of Economics; Associate Professor of Philosophy*
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DAVID MAXWELL SCOTT (C), *Associate Professor of Zoology*
B.Sc., McGill., M.Sc., *ibid.*, Ph.D., *ibid.* 1951

ROBERT NEWTON SHERVILL (C), *Lecturer in Romance Languages*
B.A., M.A., North Carolina; Knight Officer, Order of Orange Nassau (with Swords). 1946

WILLIAM FRANCIS SIMPSON (P), *Professor of French*
B.A., M.A. 1935

CHRISTIAN SIVERTZ (C), *Associate Professor of Chemistry*
B.Sc., British Columbia, M.Sc., McGill, Ph.D., *ibid.* 1926

BETTY RHEA STEWART (C), *Lecturer in Psychology*
B.A., Oregon, M.A., *ibid.*, Ph.D., Kansas. 1954

FRANK STILING (C), *Lecturer in English*
B.A., McMaster, M.A., M.A., Mich., Ph.D., *ibid.*; Principal of University College; Dean of Arts and Science. 1928

ROBERT HARVEY STINSON (C), *Assistant Professor of Zoology*
B.A., McMaster, Ph.D., Toronto. 1950

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* On leave 1954-55.

GEORGE GORDON SUFFEL (C), *Associate Professor of Geology*
B.Sc., Queen's, M.Sc., *ibid.*, Ph.D., Stanford. 1946

ARMAS JOHN SUKAVA (C), *Instructor in Chemistry*
B.Sc., Manitoba, M.Sc., *ibid.*, Ph.D., McGill. 1954

JAMES JOHN TALMAN (C), *Lecturer in History, Journalism*
B.A., M.A., Ph.D., Toronto, F.R.S.C.; University Librarian. *and Library Science*
1939

HARTLEY MUNRO THOMAS (C), *Associate Professor of History*
B.A., Queen's, M.A., Harvard, Ph.D., *ibid.* 1931

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), *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 and Physics*
B.A.Sc., Toronto, M.A., *ibid.*, Ph.D., P.Eng. 1950

FRANTISEK UHLIR (H), *Lecturer in Philosophy, and Philosophy of Religion*
Ph.D., Masaryk U., Czecho-Slovakia. 1954.

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 Botany*
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

OTTO WEININGER (C), *Instructor in Psychology*
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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), *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

CHARLES GORDON WINDER (C), *Lecturer in Geology*
B.Sc., Ph.D., Cornell. 1953

JOHN CHARLES WOODBURY (W), *Assistant Professor of English*
B.A., Manitoba. 1954

ROSS GREIG WOODMAN (C), *Instructor in English*
B.A., British Columbia, M.A., Manitoba. 1950

ARTHUR WOODS (C), *Professor of Mathematics and Astronomy*
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

MICHAEL S. YUHASZ (C), *Lecturer in Physical, Health and Recreation Education*
B.A., M.S., Illinois. 1954

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

CHARLES HART AHARAN (C), *Lecturer in Psychology*
B.A., M.A. 1954

ASTRIDE APINIS (W), *Lecturer in Physical, Health and Recreation Education*
B.P.H.E., McGill. 1954

PHILIP JOHN AZIZ (C), *Lecturer in Art and English*
B.F.A., Yale, M.F.A., *ibid.* 1950

ALLAN JONES BARKER (C), *Instructor in Geography*
B.A., M.A., Wisconsin. 1951

JONAS BINGEMAN (W), *Lecturer in Business Administration*
B.A. 1951

HELMUT HERBERT FREDERICK BINHAMMER (W), *Lecturer in Economics*
B.A. 1950

HOWARD NELSON BREAM (W), *Lecturer in Hebrew*
A.B., Midland, B.D., Gettysburg, Ph.D., Chicago. 1953

RONALD BUDDELL (W), *Lecturer in Business Administration*
B.A., Queen's, C.P.A. 1954

DAVID COLYER BUTTERWORTH (W), *Lecturer in Economics*
B.A., M.B.A. 1954

CATHERINE CAMPBELL (C), *Lecturer in Library Science*
B.A. 1923

JAMES JOSEPH CARRIGAN (P) (U), *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

JOHN KERR ELLIOTT (C), *Lecturer in Journalism*
B.A. 1946

CHARLES R. ENGEL (C), *Honorary Lecturer in Chemistry; Assistant Professor of Medical Research*
Chem. Eng., Swiss Federal Inst. Tech., D.Sc., *ibid.* 1951

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. 1945

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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

ALICE L. GRAVES (H), *Lecturer in Voice Culture*
1949

JOHN ROWLAND WILLIAM GWYNNE-TIMOTHY (C), *Instructor in History and Economics*
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

REGINALD PERCIVAL DAN HURFORD (H), *Lecturer in Systematic Theology*
B.D., Wycliffe, D.D., *ibid.* 1944

ARTHUR GORDON HUSON (B) (C), *Lecturer in Economics*
B.Sc.. (Econ.), London; Barrister. 1953

MABEL AGNES HYND (C), *Instructor in Secretarial Science*
1919

WALDEMAR JANZEN (W), *Lecturer in German*
B.A. 1954

JOHN K. JOHANNESEN (C), *Instructor in Plant Culture*
Diploma, Royal Agricultural College (Copenhagen). 1950

HELEN M. KORRI (U), *Instructor in Physical Education*
1952

JOHN GRAHAM LETHBRIDGE (H), *Lecturer in Christian Ethics*
B.A., B.S.W., Toronto, B.D. 1954

ULRICH LEUPOLD (W), *Director of Music and Lecturer in Religious Knowledge* 1945
Ph.D., Berlin.

DORIS IRENE LEWIS (Mrs. M. E.) (W), *Lecturer in Library Science* 1949
B.A., Toronto.

RALPH ANTHONY LUDWIG (C), *Honorary Lecturer in Botany* 1951
B.S.A., Alberta, M.Sc., *ibid.*, Ph.D., McGill.

HUBERT MARTIN (C), *Honorary Lecturer in Chemistry* 1951
B.Sc., London, M.Sc., *ibid.*, D.Sc., *ibid.*, A.R.C.S., F.R.I.C.

CAROLINE MCKENZIE (C), *Lecturer in Library Science* 1951
B.A., Sask., B.L.S., McGill.

ORLO MILLER (C), *Lecturer in Journalism* 1953

WILLIAM HAROLD MINSHALL (C), *Honorary Lecturer in Botany* 1951
B.S.A., Toronto, M.Sc., McGill, Ph.D., *ibid.*

LEOLA ELLEN NEAL (C), *Associate Professor of Psychology* 1933
B.A., M.A., Ph.D., Toronto; Dean of Women.

ISABEL PARK (U), *Instructor in Home Economics* 1954
M.A.

WILLIAM JOHN PILLSWORTH (C), *Lecturer in Physical, Health, and Recreation Education* 1951
B.A., M.A., New York Univ.

GEORGE ELMORE REAMAN (W), *Lecturer in English* 1954
B.A., Toronto, B.Paed., Queen's, M.A., McMaster, Ph.D., Cornell.

HELEN MARGARET ROSSITER (C), *Lecturer in Health* 1948
M.B.Ch.B., Edinburgh, D.A., London; University Physician.

JAMES R. SCOTT (C), *Lecturer in English* 1948
B.A., Toronto.

WILLIAM GEORGE SCOTT (W), *Lecturer in Economics* 1945
B.A., M.A., Toronto.

EARL HUBERT SLATER (C), *Lecturer in Journalism* 1951
B.A., Toronto, Barrister-at-Law, Osgoode.

BEVERLEY NORTHCOTTE SMALLMAN (C), *Honorary Lecturer in Zoology* 1951
B.A., Queen's, M.A., Ph.D., Edinburgh.

ELVINS SPENCER (C), *Honorary Lecturer in Chemistry* 1951
M.Sc., Alberta, Ph.D., Toronto, F.C.I.C.

ELEANOR GRAVES TORRENS (Mrs. R. W.) (C), *Lecturer in Economics* 1945
A.B., North Carolina, M.A., *ibid.*

CARL TOTZKE (W), *Lecturer in Physical Education* 1953
B.A.

C. ROBERT TURNBULL (C), *Lecturer in Journalism* 1952

JOSEPH BERRIAN WASHINGTON (B) (C), *Lecturer in Business Administration*
B.B.A., Tulane, M.B.A., Harvard. 1951

JOHN JACOB WETTLAUFER (B) (C), *Lecturer in Business Administration*
B.A., M.B.A. 1950

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, 1954-55

Year in Course	University College		Huron College	Ursuline College	Waterloo College	St. Peter's College	Music Teachers College	Totals
Full Time:								
First		20	12	15	40	7	5	99
(Without Senior Matriculation)								
Second		811*	9	47	149	23	14	1,053
Third		234	8	15	39	15	11	322
Fourth		253	8	20	40	9	2	332
Graduate		62	.....	.....	.....	.....	.....	62
								1,868
Part Time:								
Undergraduate		40	.....	55	74	3	1	173
Graduate		18	.....	.....	.....	.....	.....	18
								2,059
Correspondence	283	.....	.....	.....	.....	.....	.....	283
Summer School	623	.....	.....	.....	.....	.....	.....	623
Extension	542	.....	.....	.....	.....	.....	.....	542
TOTALS	1,448	1,438	37	152	342	57	33	3,507
Duplicates								444
								3,063

*In Pass courses, 531; in Honors courses, 280; from the latter, students enter the Medical School, the School of Business Administration, or the advanced years of Honors courses.

SUMMARY OF REGISTRATION IN THE WHOLE UNIVERSITY, 1954-55

Faculty of Arts and Science:	University College Intramural	1,438	
	Summer School, Correspondence, Extension, less duplicates	1,004	
	Affiliated Colleges	621	
			3,063
Faculty of Medicine:	Undergraduates	236	
	Graduates	33	
			269
School of Nursing:	Graduate Nurses		70
School of Business Administration:	Juniors	80	
	Seniors	60	
	Graduates	93	
			233
UNIVERSITY TOTAL ENROLMENT			3,635

2440 - Full time 188 F.T. Frosh