UNIVERSITY OF WESTERN ONTARIO

LONDON - CANADA

•

FACULTY of ARTS and SCIENCE

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

Announcement 1952-53

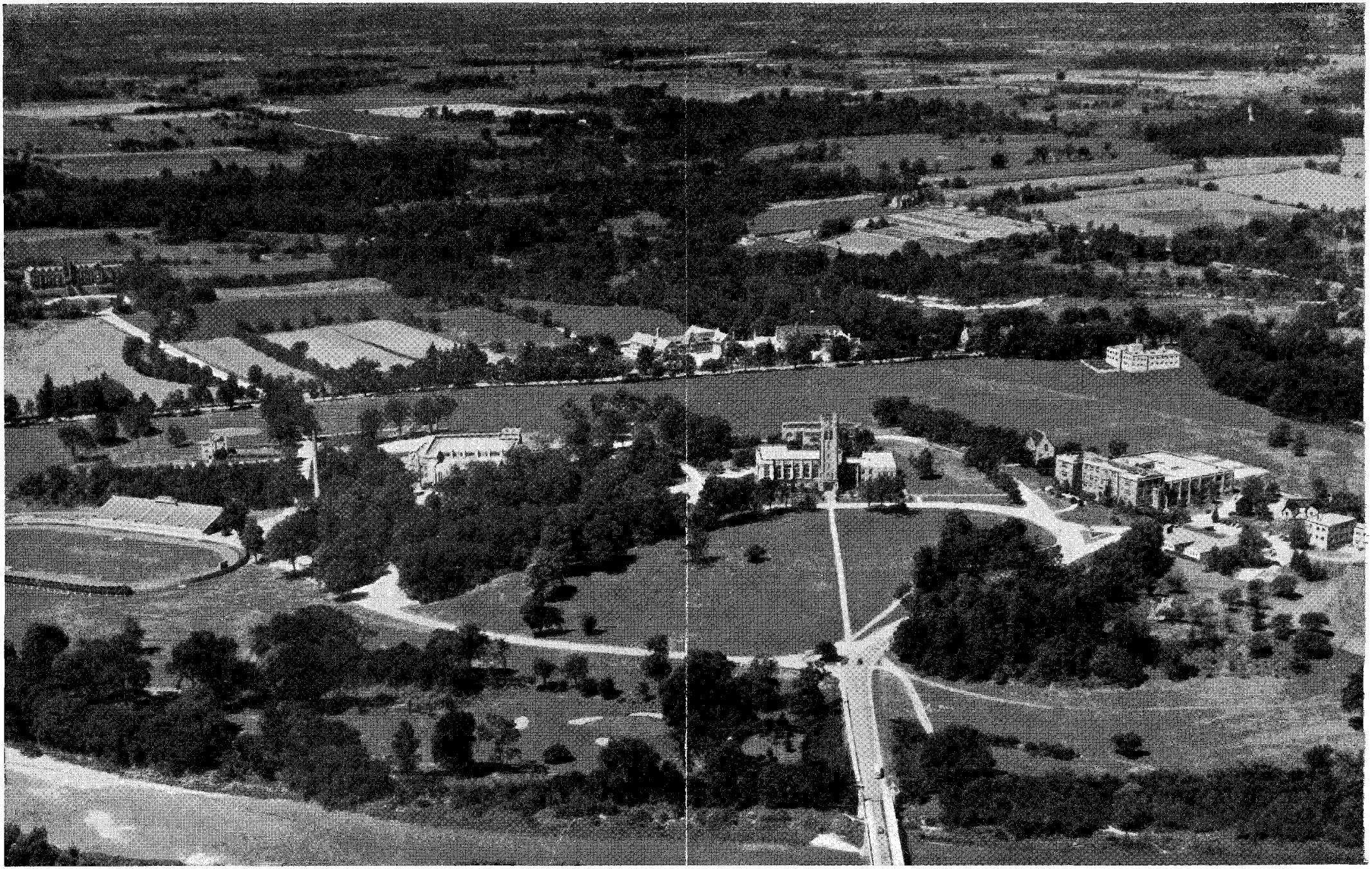
OBJECTIVES

The Arts and Science Faculty of the University is primarily concerned with undergraduate instruction leading to a first degree. The purpose of this instruction is to produce personalities of positive value in their environments. The ideas that should inform this process have been so strikingly stated by a leading educationist* that he may well be quoted:

"The chief needs of public service are five very simple ones: honesty, courage, common sense, knowledge and vision. The character-building forces of the nation—the home, the school, the church, the college—must be depended upon to provide the honesty and courage. Nature, and nature alone, can furnish the common sense. To honesty, courage and common sense, the University can and should add knowledge and vision.

"The task of the college is, or should be, reasonably definite and well understood. It is to take the youth at about the age when in ancient Rome he put on the *toga virilis* and offer him for three or four years opportunity for carefully directed and supervised study in some part or in many parts of the field of liberal arts and sciences. The purpose of this carefully supervised and directed training is to give him the benefit of his rich human inheritance, so far as that may be practicable, and thereby better to prepare him for such specific task as may await him in the years of mature life. The old days when the substance of this inheritance could be transmitted through a few carefully chosen and prescribed subjects of study have gone forever. They have gone, not because those studies were not excellent in their time, but rather because times have changed and the human inheritance has taken on a more many-sided and richer form than it once was known to have. Nature and its study have offered new and splendid vistas to both knowledge and imagination. The creative arts have unfolded themselves in striking fashion for a century past as educational instrumentalities of highest value. The structure and underlying principles of the social and political order, first examined and interpreted in classic fashion by Aristotle, have now taken on many new forms and guises, each with its own appeal and its own capacity for usefulness. It is for reasons such as these that the task of the college faculty has become more difficult than ever before, since it must within a limited time and for youths from all sorts and conditions of home, family and school background and environment, offer that opportunity to understand and grasp the rich human inheritance which it is the first business of the college to transmit."

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



Brescia Hall (Ursuline College Residence)
Cronyn Memorial Observatory
The J. W. Little Memorial Stadium

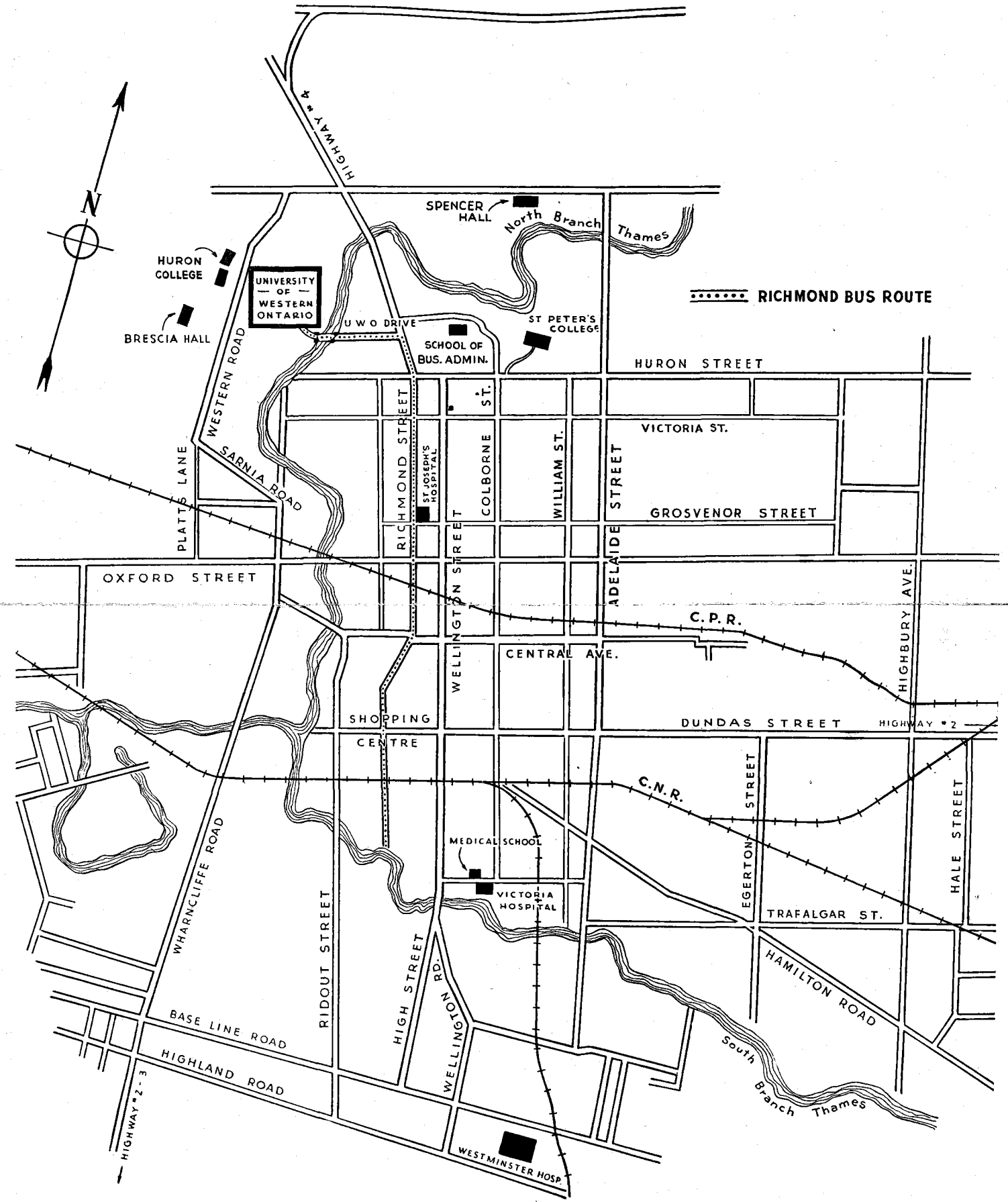
Student Parking Space
Thames Hall

Huron College Buildings
Lawson Memorial Library
Arts and Administration Bldg.

McIntosh Memorial Bldg.
Natural Science Bldg.

Dominion Science Service Lab.
Botany Bldg. and Greenhouses
Fingal Hall (Cafeteria)
The J. B. Collip Medical Research Bldg.

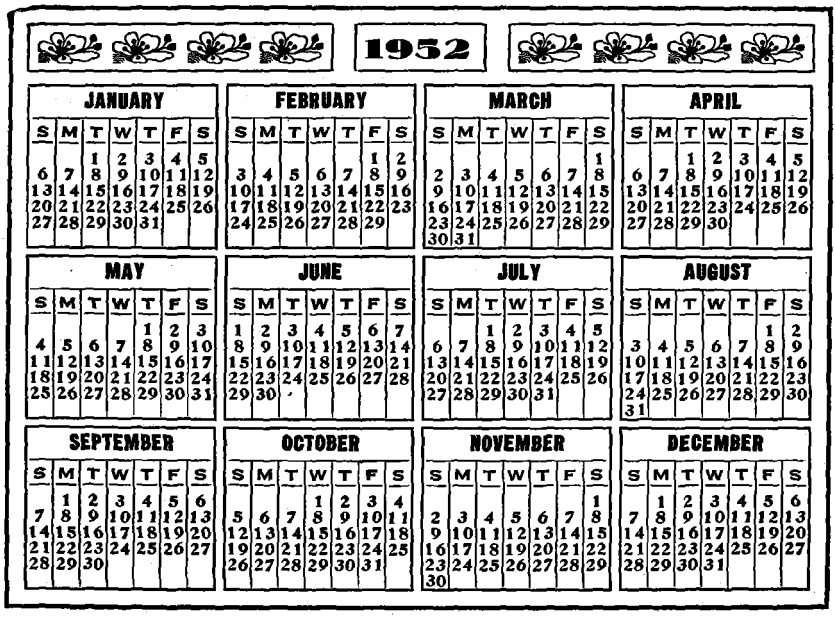
THE CAMPUS - UNIVERSITY OF WESTERN ONTARIO


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North Branch
Thames
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ST PETER'S COLLEGE
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ST.
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PLATTS LANE
SARNIA ROAD
ST JOSEPH'S HOSPITAL
COLBORNE
WILLIAM ST.
ADELAIDE STREET
GROSVENOR STREET
OXFORD STREET
WELLINGTON STREET
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C.P.R.
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.

Contents

(For specific courses refer to Index)

	Page
Objectives	2
Calendar of Events	5
The Board of Governors and the Senate	6
University Officers	7
General Information about the whole University	9
Organization	9
History	9
Degrees Offered	9
The University Libraries	10
The Health Services, including Student Health Insurance	11
The University Concert Series	11
Regulations of the Faculty of Arts and Science:	
Admissions	12
Registration	5, 13
Length of Undergraduate Courses	14
Attendance at Lectures	14
Conduct	14
Examinations and Grades	15
Failures	16
Appeals	17
General Regulations on (i) Foreign Language Study	17
(ii) Extra Courses	17
(iii) Student Activities	17
Teachers' Courses and Certificates	18
Summer School, Correspondence and Extension Courses	19
Regulations of the Faculty of Graduate Studies: M.A., M.Sc., LL.B., Ph.D.	20
Fees and Other Expenses	23
Explanation of Number and Credit System for Courses	25
Requirements for Degrees and Descriptions of Courses:	
University College	26-104
Alma College	104
Assumption College	105
Huron College	111
Music Teachers' College	114
St. Peter's College	116
Ursuline College	119
Waterloo College	120
Appendix A—Entrance Scholarships; Undergraduate Medals, Scholarships and Prizes; Graduate Fellowships; Summer School Prizes	123
Appendix B—Military Training in the University	134
Appendix C—Officers of Instruction, Faculty of Arts and Science, all Colleges	137
Index	150
Summary of Registration	152



1952

JANUARY

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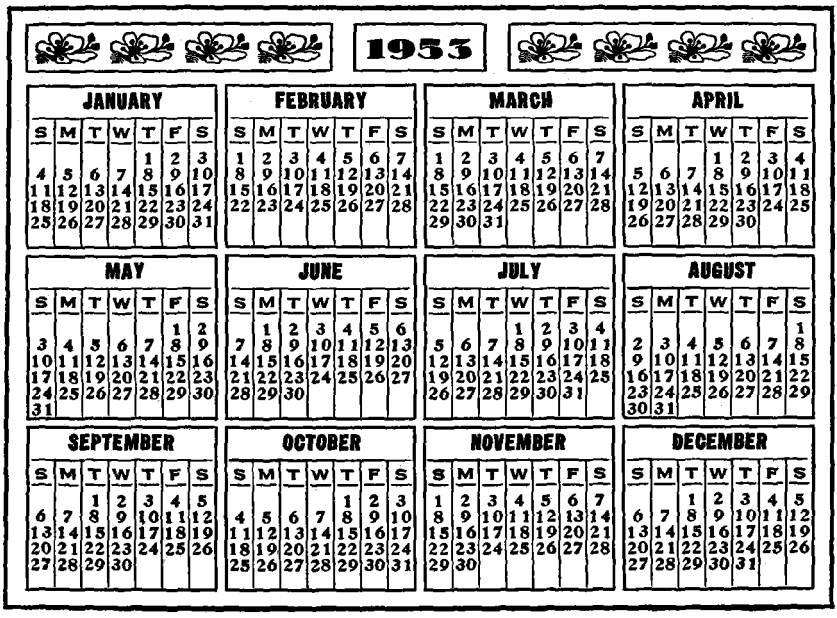
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CALENDAR OF THE FACULTY OF ARTS AND SCIENCE

1952

July 2, Wednesday.....Summer Session begins.

August 12, Tuesday.....Summer Session ends.

August 13, Wednesday.....Supplemental examinations begin.

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

September 16, Tuesday.....Registration of new students from Elgin, Essex and Middlesex Counties.
8.30 to 12.30.....
2.00 to 5.00.....Physical Examinations.

September 17, Wednesday.....Registration of new students from other centres.
8.30 to 12.30.....Registration.
2.00 to 5.00.....Physical Examinations.
8.00 p.m......Official welcome and Faculty reception.

September 18, Thursday.....Registration of second, third and fourth year students from Elgin, Essex and Middlesex Counties.
Prescribed meetings for new students.

September 19, Friday.....Registration of second, third and fourth year students from other centres.
Aptitude tests for new students.

September 22, Monday.....Lectures begin for all students, graduate and undergraduate.
Late registration penalty of two dollars.

October 1, Wednesday.....Registration of graduate students.
Last day of application, and payment of graduation fees, for degrees and diplomas of the Autumn Convocation.

October 6, Monday.....Last day of registration for full-time students (graduate and undergraduate).

October 13, Monday.....Thanksgiving Day; classes cancelled.

October 24, Friday, 4.00 p.m......Autumn Convocation.

November 7, Friday.....Remembrance Day ceremony.

December 20, Saturday, noon.....Christmas vacation begins.

1953

January 5, Monday.....Lectures resume.

January 12, Monday.....Second term begins.

March 5, 6, 7, 8.....Seventy-fifth Anniversary and Founders' Day ceremonies.

April 3, Friday.....Good Friday; classes cancelled.

April 11, Saturday.....Second term classes close.

April 20, Monday.....Examinations begin.

May 1, Friday.....Last day of application and payment of graduation fees for degrees at the Spring Convocation.

May 9, Saturday.....Examinations end.

May 30, Saturday.....Spring Convocation.

The Board of Governors

THE CHANCELLOR, *ex officio*
THE PRESIDENT and THE VICE-PRESIDENT, *ex officio*
HIS WORSHIP, THE MAYOR OF LONDON, *ex officio*
THE WARDEN, COUNTY OF MIDDLESEX, *ex officio*

	Appointed by
MR. W. L. DUFFIELD,	*Lieutenant-Governor-in-Council*
MR. J. B. HAY,	*Board of Governors*
MR. FRANK FORRISTAL, K.S.G.,	*Lieutenant-Governor-in-Council*
LIEUT.-COL. GORDON INGRAM,	*London City Council*
DR. A. T. LITTLE,	*Board of Governors*
MR. LOUIS L. LANG,	*Board of Governors*
MR. A. E. SILVERWOOD,	*London City Council*
LIEUT.-COL. J. E. SMALLMAN,	*London City Council*
MR. C. F. STEVENS,	*Board of Governors*
MR. H. W. STRUDLEY,	*Lieutenant-Governor-in-Council*
LIEUT.-COL. J. GORDON THOMPSON,	*London City Council*
LIEUT.-COL. D. B. WELDON, M.C.,	*Lieutenant-Governor-in-Council*

Officers of the Board

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

The Senate

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

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

Officers of the Senate

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

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

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, 1903; LL.D., *ibid.*, 1949. 1947

President and Vice-Chancellor

GEORGE EDWARD HALL, M.S.A., M.D., Ph.D., D.Sc., F.R.S.C.
B.S.A., Toronto, 1929; M.S.A., *ibid.*, 1931; M.D., *ibid.*, 1935; Ph.D., *ibid.*, 1936; F.R.S.C., 1944; D.Sc., Laval, 1951; Professor of Medical Research and Dean of Medicine, 1944; President and Vice-Chancellor, 1947. 1944

Vice-President and Dean of Graduate Studies

RONALD ALEXANDER ALLEN, M.A., Ph.D.
B.A., Toronto, 1921; M.A., *ibid.*, 1922; Ph.D., Chicago, 1928; Associate Dean of Arts and Science, 1949; Vice-President and Dean of Graduate Studies, 1950. 1923

Comptroller

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

Librarian

JAMES JOHN TALMAN, M.A., Ph.D., F.R.S.C.
B.A., 1925; M.A., 1927; Ph.D., Toronto, 1930; Assistant Librarian, 1939; Associate Professor of History, 1947; Librarian, 1947; F.R.S.C., 1949. 1939

Physician

HELEN MARGARET ROSSITER, M.B.Ch.B., D.A.
M.B.Ch.B., Edinburgh, 1940; D.A., London, 1948; University Physician. 1948

Registrar

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

Dean of Women

LEOLA ELLEN NEAL, Ph.D.
B.A., 1933; M.A., 1935; Ph.D., Toronto, 1942; Instructor in Psychology, 1942; Assistant Professor, 1945; Dean of Women, 1946; Associate Professor, 1949. 1933

Counsellor to Men

THOMAS LESLIE HOSKIN, M.A.
B.A., 1935; M.A., Northwestern, 1951. 1945

Director of Extension and Summer School Department

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

Director of Music

HARVEY ROBB
D.D.S., Toronto, 1909; Principal of Western Ontario Conservatory of Music; Director and Professoor of Music, 1947; Principal of Music Teachers' College, 1950. 1945

Assistant Librarians

ALLAN GEORGE BOGUE, M.A., Ph.D.
B.A., 1943; M.A., 1946; Ph.D., Cornell, 1951; Lecturer in Economics and History; Assistant Librarian, 1949. 1949

LILLIAN REA BENSON, B.A.
B.A., 1933. 1934

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

Assistant Registrar

MARGARET P. MAY, B.A.
B.A., 1938; *Assistant Registrar, 1950.* 1945

Curator of the Museum of Indian Archaeology

MR. WILFRID JURY

Honorary Curator of the Jeffery Stamp Collection

DR. HOWARD CROCKER

Honorary Curator of Ceramics

MR. EMERSON NICHOLS

Honorary Historian

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

Administrative Council

PRESIDENT HALL, *Chairman*; VICE-PRESIDENT ALLEN; DEANS COLLIP, KINGSTON, MCDOWELL, NEAL; VICE-PRINCIPAL F. STILING, *Secretary*

FACULTY OF ARTS AND SCIENCE

Faculty Council

Chairman, THE PRESIDENT
Secretary, THE REGISTRAR

PRINCIPAL H. R. KINGSTON,	*Faculty of University College*
VICE-PRINCIPAL F. STILING,	*Faculty of University College*
PRESIDENT J. H. O'LOANE,	*Faculty of Assumption College*
REV. P. J. M. SWAN,	*Faculty of Assumption College*
MOTHER M. ST. JAMES,	*Faculty of Ursuline College*
MOTHER M. IGNATIUS LOYOLA,	*Faculty of Ursuline College*
RT. REV. A. P. MAHONEY,	*Faculty of St. Peter's College*
REV. T. J. MCCARTHY,	*Faculty of St. Peter's College*
DEAN L. SCHAUS,	*Faculty of Waterloo College*
PRESIDENT H. T. LEHMANN,	*Faculty of Waterloo College*
PRINCIPAL A. H. O'NEIL,	*Faculty of Huron College*
PRINCIPAL P. S. DOBSON,	*Faculty of Alma College*

UNIVERSITY COLLEGE

(*London, Ontario*)

Principal of University College and Dean of the Faculty of Arts and Science

H. R. KINGSTON, M.A., Ph.D., F.R.A.S.

Vice-Principal

F. STILING, M.A., Ph.D.

Secretary

E. H. TULL, M.Sc., P.Eng.

Representatives on the University Senate

A. H. JOHNSON, M.A., Ph.D. J. W. BURNS, M.Sc.

Representatives on the Athletic Directorate

D. A. MCLARTY, Ph.D. *R. N. SHERVILL, M.A.

*On leave, 1951-52.

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 four colleges teaching four-year Arts courses: viz., Assumption College, Windsor; Ursuline College, London; St. Peter's Seminary College of Arts, London; Waterloo College, Waterloo; one Junior College teaching the first two years in Arts only, Alma College, St. Thomas; one theological college, Huron College, London. Also affiliated with the University are Music Teachers College, which offers a four-year course in Arts and Music, and the Western Ontario Conservatory of Music.

HISTORY

Western University, through the efforts of the Bishop of the Diocese of Huron of the Church of England in Canada, received its charter from the Legislature of the Province of Ontario in 1878. The first classes graduated in Arts and in Medicine in 1883.

The Medical School has maintained an unbroken existence since it was first opened. In 1912 control by a joint stock company ceased and the Medical School became a Faculty of the University, under the direct control of the same Board of Governors as the rest of the institution; in 1921 it occupied its present buildings.

The Faculty of Arts, for financial reasons, was forced to close from 1885 to 1895. Revived in the latter year, it was for some time compelled to struggle for existence, but in 1908 its charter was so amended that it became undenominational and was permitted to receive financial assistance from the London City Council. Later, when the student body had increased to such an extent that local finances could not possibly meet the demands, the Province assumed part of the load of current expense. The Kingsmill property, about 260 acres, north of the City of London, was bought in 1917; buildings were erected, and the Faculty of Arts was moved to the present location in 1924.

The Institute of Public Health was opened in 1912 in a building erected and equipped by the Government of the Province of Ontario and turned over to the University to "aid Medical Education and promote instructional and practical work in Public Health". In 1917 it became the Faculty of Public Health of the University, the first independent Faculty of Public Health in the British Empire; 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.

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

DEGREES

By its charter the University of Western Ontario may confer degrees in Arts, Medicine, Science, 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 Laws.
2. Degrees by examination: Bachelor of Arts (B.A.); Bachelor of Science (B.Sc.); Bachelor of Science in Nursing (B.Sc.N.); Bachelor of Science (Laboratory Assistant) (B.Sc.L.A.); *Bachelor of Divinity (B.D.); Bachelor of Laws (LL.B.); Master of Arts (M.A.); Master of Science (M.Sc.); 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 Public Administration; Diploma in Home Economics; Certificate of Public Health Nurse (C.P.H.N.); Certificate of Instructor in Nursing (C.I.N.); Certificate in Hospital Administration (C.H.A.); Music Graduate in Paedagogy (Mus.G.Paed.).

THE LIBRARIES

Since sound learning is impossible without good books, the library is basic in a university. There are two libraries at the University of Western Ontario, the general library and the medical library, as well as two special reading rooms in the Science Building and the School of Business Administration, respectively. All divisions use the Library of Congress system of classification.

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

Although this is a fairly large collection and compares favorably in point of numbers with other university libraries in Canada, number of volumes is not the best criterion of a library's value. It would be quite possible to have 200,000 volumes, few of which would be of value to undergraduate or graduate students; or to have the same number of valuable books made almost unusable because of lack of space in which to consult them. The books on the shelves, their accessibility and condition, the policy of selection, the number of current literary and scientific journals, and the reading room accommodation must also be taken into consideration when evaluating 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 use. In the general library there is reading room space for nearly three hundred students; there are also forty carrels in the stacks for advanced and graduate students, who may secure stack permits on the recommendations of their professors. In order to help undergraduates to make intelligent use of the collections, every student in his first year is required to secure credit in a course of instruction in the use of the library, given by members of the library staff.

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

It is impossible for a university library to make exhaustive collections of all kinds of printed material. In some respects, however, the libraries of the University of Western Ontario are outstanding. The general library is conspicuously rich in Canadiana, Americana, and books relating to Shakespeare. The nucleus of this material came as a gift in 1918 from the late Dr. John Davis Barnett. There are also important newspaper files, and a large number of early agricultural journals, as well as printed and manuscript sources of the social and religious history of Canada. The Medical School library is particularly rich in medical journals and has an extensive collection in the field of medical history.

UNIVERSITY HEALTH SERVICES

(i) Physical Examinations

A physical examination by practising physicians under the supervision of the University Health Service is required of students, men and women, of all years. The medical examination will be free if taken on scheduled registration days, but a late fee of Two Dollars will be charged those students who do not take the examination at that time. An X-ray examination for all freshmen, Medical, Nursing, and post-graduate students will be arranged during January and is also 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 University 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

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

A candidate will not be permitted to submit a thesis for which a degree has been previously conferred. Permission may be given to a candidate by the appropriate subcommittee on Graduate Studies to incorporate in his doctoral thesis work included in a previous thesis. . . . The candidate will be required to submit with his thesis four copies of an abstract of not more than five hundred words, to be bound with four copies of his thesis.

Examinations

A department may require oral or written examinations or both and may decide in the case of each candidate the type of examination required. A department, at its discretion, may require a comprehensive examination. Notice of the type of examination shall be given by the Head of the Department to the candidate at least two months before the date on which the examination is to be held. The examiners of the thesis and the oral shall be appointed by the appropriate subcommittee on Graduate Studies, on the recommendation of the Head of the Department. Three or more examiners will be appointed, of whom one at least must be external to the University.

The Doctor's degree with Honors may be granted to a candidate on the recommendation of the committee in charge of the candidate's research and with the approval of the appropriate subcommittee on Graduate Studies. It will be granted not on the basis of any specific percentage but only in recognition of outstanding achievement.

For additional specific regulations, refer to the pamphlet published by the Faculty of Graduate Studies.

FEES

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

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

Tuition and Prescribed Accessory Fees

For FULL-TIME intramural undergraduate students

(this annual sum includes regular examination and registration 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)	$350.00
Science (General and Honors); Home Economics; Nursing; Physical Education, Health and Recreation	320.00
All other courses	280.00

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

(2) For DVA students these sums will be $335, $305 and $265, respectively, because Student Health Insurance and Health Services are not included.

For GRADUATE Students

The tuition fee for the M.A. course is $230.00, for the M.Sc. course $270.00, payable once only, at the time of first enrolment in the Faculty of Graduate Studies. The tuition fee for the M.B.A. course is $350.00 per annum. The Master's degree fee is $20.00.

The tuition fee for the Ph.D. course is $160.00 a year up to three years, then $20.00 for each subsequent year. An examination fee of $50.00 and a degree fee of $50.00 are required in the final year, by May 1st for Spring graduation or October 1st for Fall graduation.

All students registered in the Faculty of Graduate Studies, except D.V.A. students, also pay an annual fee of $15.00 for Health Insurance and Health Service. Graduate students may be excused the Health Insurance fee ($10.00) on production of evidence that they already carry comparable insurance.

Graduate students in any Science department who are not candidates for any degree shall pay an inclusive laboratory fee of $50.00 per annum if they have the written permission of the Head of the Department and the Dean of the Faculty to pursue such courses. This fee may be waived by the Dean of the Faculty on the recommendation of the Head of the Department concerned.

For PART-TIME Students

First Registration, payable once only	$ 5.00
Tuition—Intramural, Extension and Correspondence, each credit, including examination	13.00
Tuition and Student fees—Summer School, each credit, including examination	13.00
Laboratory and microscope fees, each science	10.00

Examinations

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

Supplemental, each paper	5.00
maximum	15.00
Presiding fee at an outside centre, each half-day	3.00
Special examination, at date other than May or August, each paper	15.00
LL.B. examination, each paper	20.00
Ph.D. (final year only)	50.00
Graduate Record Examination (institutional plan)	3.00

Late Registration

(Including late physical examination) (for intramural students only)	2.00

Certificates

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

Degrees and Diplomas

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

Degree of B.A. or B.Sc.	10.00
Degree of M.A., M.B.A., M.Sc., or LL.B.	20.00
Degree of B.D.	24.00
Degree of Ph.D.	50.00
Diploma (in courses without degrees)	5.00

in the four constituent Faculties (Arts and Science, Medicine, Nursing and Business Administration) is entitled to admission to all concerts in this series.

REGULATIONS

Admission

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

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

(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, will receive sufficient credit thereon to enable him to reduce the normal length of his course by one year.

The Grade XIII subjects are:

English (Literature and Composition), Mathematics (Algebra, Geometry, Trigonometry and Statics), History, Latin, Greek, French, German, Spanish, Italian, Physical Science (Physics and Chemistry), Biology (Botany and Zoology), ***Music, ****Mathematics of Investment, Accountancy Practice, Secretarial Practice.

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

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

Percentages

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

A candidate who fails to obtain First, Second or Third Class Honors,

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

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

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 conducted by the University of Oxford and by the University of Cambridge may be accepted instead of Grade XIII (Upper School) standing in some subjects, providing those subjects are passed "with Credit" or higher standing.

Admission With Advanced Standing

From Collegiates

Candidates presenting Grade XIII certificates in Ancient or Modern Languages, or History, or Mathematics, or the recognized equivalents of such certificates, may be credited with the corresponding subjects in the Junior Groups. For Sciences, see pages 27, 31, 33.

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 before September first. These official documents must include a certificate of honorable dismissal from the institution last attended. No student may register in the University of Western Ontario if he may not re-register in the institution from which he wishes to transfer.

Admission of Adult Special Students

Students who are over twenty-one years of age, though they may not be able to present qualifications for admission to candidacy for degrees, may be admitted to a few courses in the Faculty of Arts and Science of the University, if, in the opinion of the professors in charge, they are qualified to pursue satisfactorily the courses chosen. These special students must satisfy the professors by regular attendance and attention to the work of their classes. They will not be allowed to advance from year to year in a department without taking the regular examinations.

An adult special student who has satisfactorily completed the work of a Junior Group in the General Course will be considered to have secured standing sufficient to permit his proceeding to a degree on the same terms as one who at entrance presented complete entrance requirements.

Registration

Junior Groups

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

Students presenting Grade XII, or Grade XII and Grade XIII, certificates will register in one of the Junior Groups (page 26) or one of the special courses (page 26), subject to the admission requirements in each college for those courses.

Grade XIII standing in any subject will exempt a student from the first year of the general course in the same subject (except the sciences),

*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.

Senior Group or Honors

if that subject is included in a Junior Group. (For details of allowances, see page 25.)

Medical Examination

Students who have completed a Junior Group may register either in one of the Senior Groups (page 29) or in an Honors Course for which they have specific prerequisites. (See pages 34-48.)

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 or Music or Theological 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 each course (see pp. 26-33). The other General Courses (with Arts or Science or Secretarial Science or Teachers' Options) require three years from Grade XIII standing in four subjects. In the Nursing Course Grade XIII in four subjects precedes a five-year course. The Honors Courses, except as mentioned below, are four-year courses from Grade XIII standing in four subjects.

In the Affiliated Colleges

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

Attendance at Lectures

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

Conduct

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

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

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

Examinations and Grades

The regular examinations will be held in April and May.

General Course

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

No student will be admitted to the degree of Bachelor of Arts in the General, the General Science, 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 on half the credits required for a Senior Group, or for the third and fourth years, and Grade C on half the credits of his senior year.

Honors Courses

Candidates in the Honors Courses in any department will be ranked in order of merit in that department in four classes; those who obtain 75 per cent., or over, of the total number of marks will be placed in Class I; those who obtain 66 per cent. to 74 per cent. will be placed in Class II; those who obtain 60 per cent. to 65 per cent. will be placed in Class III; those who obtain between 50 per cent., the minimum for pass, and 59 per cent., will be placed in Class IV; but an average of Class IV over all the Honors subjects of the fourth year (with no failure on any paper) 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 for academic credit.

Comprehensive Examinations

Students entering Honors Courses should observe that the purpose of their college work is not simply the creditable passing of courses, term after term, but the gradual acquisition of a broad and deep knowledge of the chosen subjects and an intelligent appreciation of their bearing upon general knowledge and culture. Various departments of the University College of Arts and Science have introduced comprehensive examinations for Honors students. These examinations, partly oral and partly written, are given at the end of the senior year and cover the broad aspect of the student's Honors Course. They are additional to the course examinations.

Term work

In all subjects of the General and Honors Courses the ratio of term-work marks to examination marks is determined by the teaching staff in each subject. To pass, a student must obtain 50 per cent. on the whole of a subject, with 50 per cent. in term work and 50 per cent. in examinations.

Term work in a course will not be credited to a student beyond the year in which the course is taken.

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**, p. 16.)

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 six credits of work.

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

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

Special Examinations

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

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

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

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

Failures

A student who fails to obtain 50 per cent. in the regular or supplemental examinations in a course will not be eligible for re-examination without a further year's attendance at the lectures in the course in which he has failed. **The student must repeat that course, if it is prescribed, the year after failure no matter what subject or subjects must be postponed.**

A student may take no course oftener than twice.

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

A student shall be required to pass two-thirds of the credits 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 credits, 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.

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 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.

Preparatory Greek is offered as an option in Junior Groups 2, 3 and 4 for students who present complete admission requirements without Greek. Credit towards a degree for this preparatory course will not be given unless it is supplemented by at least two other years of Greek, either New Testament or Classical.

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

A student may take three credits more than the number normally required for the academic year in which he registered. Permission to take more than three extra credits may be given by the Committee on Academic Standing. For extra credits taken by permission of this Committee, an extra tuition and laboratory fee will be charged at the usual rate per credit.

The name of the University may not be used in any publication without the permission of the Administrative Council. No class or group of students may engage in any public effort as a body representing the University or any organization within the University, without the permission of the Administrative Council.

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

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

Regulations Governing Teachers' Courses and Certificates

(i) General Course for Teachers

University College offers a course for those who for various reasons find it impossible to attend the winter sessions for all the work necessary for a degree in Arts. For outline of courses see pages 31-32. It is completely available through the Extension and Summer School Department.

(ii) A Permanent First Class Certificate

Students who hold an Interim First Class Certificate may satisfy the academic requirements for a Permanent Certificate by taking 15 credits of University courses. This work must include English 20; the other credits may be chosen from the General Course or from the Course for Teachers. For any exception to this regulation, consult a Department of Education pamphlet on this subject.

(iii) Public School Inspectors' Certificates

By agreement with the Minister of Education the work described below satisfies the academic requirements for a Public School Inspector's Certificate:

(1) An Honors Degree in Arts or Science in accordance with the present agreement prescribed for Type A qualifications (see section iv below); or

(2) A General Course Degree in Arts with a standard of 66 per cent. at the final examination for the degree, with standing in English for each of the four years.

A candidate shall extend his course over at least four years from Junior Matriculation and he shall attend the University classes (a) for at least two complete winter sessions approved by the University, or (b) for at least one complete winter session, and two complete sessions of the Summer School or the equivalent thereof. His work must be supervised as prescribed in the agreement between the Department of Education and the University.

For the professional requirements candidates should consult the Department of Education, Toronto 5, Ontario.

(iv) 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 Latin,

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

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 Announcement of the Faculty of Arts and Science for 1952-1953.

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

(i) CORRESPONDENCE WORK

A correspondence course is one which a student may pursue without attending classes (except as provided below), but in which he must write the examinations at the periods prescribed for resident students. The conditions for admission to such courses are the same as those required for admission to the corresponding intramural courses.

No correspondence student is eligible for a degree unless he has attended classes in this University for two academic years or for one academic year and two summer schools, or for six summer sessions. Attendance at Extension classes may modify this requirement.

Courses in the Sciences (including Psychology), in the elements of any foreign language, and honors courses not also given as general courses, are not given by correspondence. Students pursuing correspondence courses are subject to the same regulations about term work and examinations as those pursuing intramural courses.

For additional information consult the pamphlet on Correspondence Courses.

(ii) SUMMER SCHOOL

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

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

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

Complete information about the Summer School and Extension work is contained in the Handbook of the Summer School and Extension Depart-

ment. 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.

(iii) EXTENSION DEPARTMENT

During the winter session, the University conducts regular weekly credit classes in many centres in Ontario. These classes are usually taught by members of the University staff, and a student who satisfies the attendance requirement and passes the regular University examination will obtain credit for the courses. For further information write to the Director of the Summer School and Extension Department or to the University Registrar.

Regulations Governing Advanced Degrees

(i) THE MASTER'S DEGREE

Academic Qualifications

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

Period of Study

The duration of the course will be adjusted for each candidate. A minimum of one year in residence will be required of a graduate in Medicine or Business Administration or an Honors Course in Arts or Science. If more than six hours a week are spent in teaching or other departmental duties, at least two years in residence will be required. An additional year will be required of a candidate with a General Course degree.

Course of Study

The course of study shall comprise one major subject and one or more minor subjects. Minor subjects may be taken in the Faculty of Arts and Science or the Faculty of Medicine or in the School of Business Administration. If a minor subject is taken in the department in which the major is taken, a second minor may be required in another department. The major and minor subjects must be approved by the Head of the Department in which the student is majoring and by the Dean of the Faculty of Graduate Studies.

Committee

Within one month after a candidate's registration, the Head of his Department shall appoint his committee, to consist of his chief adviser, as chairman, and two others. The Head of the Department will then report to the Dean of the Faculty of Graduate Studies the composition of each candidate's committee.

If a candidate does not maintain a satisfactory standing in all his work, his committee may at any time recommend that he discontinue his course.

Foreign Language Requirements

It is essential that a candidate for the Master's degree have a reading knowledge of at least one language other than English, to be chosen in consultation with the Head of the Department in which he is majoring. He must furnish evidence of such reading knowledge either by presenting

university credits or by passing an examination conducted by the language department concerned, normally at a level one year in advance of Senior Matriculation requirement. If the nature of a candidate's research makes it desirable, a department may require him to show reading knowledge of a second foreign language.

Thesis

A thesis, incorporating the results of an investigation in the field of the major subject, shall be required from all candidates in the Faculty of Medicine, from all candidates in the departments of Natural Science, and normally from all other candidates. . . . A candidate shall submit with his thesis three copies of an abstract of not more than three hundred words to be bound with three copies of the thesis.

Examinations

A department may require oral or written examinations or both, and may decide in the case of each candidate the type of examination required. A department may, at its discretion, require a comprehensive examination. Notice of the type of examination shall be given by the Head of the Department to the candidate at least two months before the date on which the examination is to be held. . . . An oral examination shall be taken on the thesis.

Honors Standing

The Master's degree with Honors may be granted to a candidate on the recommendation of the committee in charge of his research and with the approval of the appropriate subcommittee on Graduate Studies. It will be granted not on the basis of any specific percentage but only in recognition of outstanding achievement.

For additional specific regulations, refer to the pamphlet published by the Faculty of Graduate Studies.

(ii) THE LL.B. DEGREE

Academic Requirements

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

(a) An Honors degree from the University of Western Ontario or some other acceptable university or college.
(b) A certificate of graduation from Osgoode Hall and of admission to the practice of law in the Province of Ontario, or equivalent certificates.

The requirements for the degree consist of:

Courses and Examinations

(a) Reading courses and examinations in each of the following subjects (see p. 77): Domestic Relations, Medical Jurisprudence, Comparative Constitutional Law and History, Comparative Civil Law.
(b) An approved thesis on an assigned subject.

Thesis

A typewritten or printed copy of the completed thesis bound in the form approved by the Librarian, must be in the hands of the Dean of the Faculty of Graduate Studies not later than May 1st or October 1st, for Spring or Fall graduation respectively. If the thesis is typewritten, the original and not a carbon copy must be submitted. Upon being approved the thesis shall become the property of the University.

(iii) THE PH.D. DEGREE

Academic Requirements

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

A candidate must be a graduate of an accredited university. He must have either a Bachelor's degree with Honors (or its equivalent) or a Master's degree or a degree in Medicine. A student who wishes to work for the degree of Doctor of Philosophy must first satisfy the Head of the Department concerned and the Chairman of the appropriate sub-committee on Graduate Studies that he has the necessary qualifications.

A student should first consult the Head of the Department in which he wishes to study. The Head of the Department will inform the appropriate subcommittee on Graduate Studies whether he considers the student a suitable candidate and is willing to allow him to work in his department. He will also recommend to the subcommittee a supervisor or supervisors.

Period of Study

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

With the consent of the Head of the Department and with the approval of the appropriate subcommittee on Graduate Studies, permission may be granted to a candidate to study elsewhere. A maximum period of one year of such studies may be credited towards the degree.

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

Course of Study

The course of study to be followed by a candidate for the degree of Doctor of Philosophy shall be determined by the Head of the Department in which the candidate is working and shall be approved by the subcommittee on Graduate Studies.

Committee

Within one month after a candidate's registration, the Head of the Department shall appoint his committee, to consist of his chief adviser, as chairman, and two others. The Head of the Department will then report to the Dean of the Faculty of Graduate Studies the composition of each candidate's committee.

If a candidate does not maintain a satisfactory standing in all his work, his committee may at any time recommend that he discontinue his course.

Foreign Language Requirements

The candidate for the degree of Doctor of Philosophy must have a reading knowledge of at least one language other than English. If the nature of a candidate's research renders it desirable, the department concerned may require a reading knowledge of a second foreign language to be chosen in consultation with his chief adviser. The candidate must furnish evidence of such reading knowledge either by presenting university credits or by passing an examination conducted by the language department concerned, at a level at least one year in advance of Senior Matriculation requirements in the first language and at the level of at least a beginning course in the second language.

Thesis

A thesis is required of every candidate for the degree of Doctor of Philosophy. The thesis must consist of the candidate's own account of his

STUDENT EXPENSES

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

Tuition, etc.	$280.00 to $350.00
Board (30 weeks)	360.00 to 480.00
Books and Supplies	55.00 to 80.00
	$695.00 to $910.00

Explanation of Number and Credit System

First year general courses are numbered between 10 and 19.

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

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

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

Graduate courses are numbered between 500 and 599.

A course whose number is followed by -a is given in the first term only; followed by -b, in the second term only; followed by -x is given in an affiliated college only.

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

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

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

UNIVERSITY COLLEGE

All students, on entering the Faculty of Arts and Science, will register in one of the following courses. In the affiliated colleges and in a few courses in University College a candidate may be admitted to the first year in Arts on presentation of a Secondary School Graduation Diploma or the equivalent (see p. 12). A candidate presenting also Grade XIII certificates or the equivalent in at least four subjects (not papers) will rececive sufficient credits to enable him to reduce the normal length of his course by one year (to three years for a General Course degree or four years for one in an Honors Course).

I. GENERAL COURSE WITH JUNIOR AND SENIOR DIVISIONS

(a) JUNIOR GROUP 1—Leading to:

Senior Group A, page 29, for General Course degree with Science options, or to
General Science for Medicine
Honors Biology
Honors Chemistry
Honors Chemistry and Physics
Honors Geography
Honors Geology
Honors Journalism
Honors Mathematics and Physics (including Actuarial Science Option and Radio Physics Option)
Honors Philosophy

(b) JUNIOR GROUP 2—Leading to:

Senior Group B, page 29, for General Course degree or to
Honors Business Administration
Honors Business Administration and Secretarial Science
Honors Economic and Political Science
Honors English and Philosophy
Honors Geography
Honors History
Honors Journalism
Honors Philosophy (except in the affiliated colleges, see pages 106 and 116)
Honors Physical, Health, and Recreation Education
Honors Psychology
Honors Social Science

(c) JUNIOR GROUP 3—Leading to:

Senior Group B, page 29, for General Course degree or to
Honors English Language and Literature
Honors English and French
Honors English and Latin
Honors English and Philosophy
Honors History
Honors Journalism
Honors Philosophy

(d) JUNIOR GROUP 4—Leading to:

Senior Group B, page 29, for General Course degree or to
Honors Classics
Honors English and French
Honors English and Latin
Honors French and Latin
Honors Journalism
Honors Modern Languages
Honors Philosophy

II. GENERAL COURSE WITH SECRETARIAL SCIENCE OPTIONS, page 30.

III. PRE-THEOLOGICAL GENERAL COURSE, page 30.

IV. GENERAL COURSE WITH HOME ECONOMICS OPTIONS, page 30.

V. GENERAL COURSE FOR TEACHERS, pages 31-32.

VI. GENERAL COURSE WITH MUSIC OPTIONS, page 114.

VII. GENERAL SCIENCE — Leading to a General Course degree with Science options, or to Medicine, page 32.

VIII. NURSES' COURSES, page 33.

I. GENERAL COURSE WITH JUNIOR AND SENIOR DIVISIONS

Requirements for Admission: In the affiliated colleges, Secondary School Graduation Diploma (page 12); in University College Grade XIII standing in four relevant subjects.

Advanced Standing

Credit will be allowed for certificates in Grade XIII English (10), Algebra or Math. of Investment (Math. 10), Geometry (Math. 12), Trigonometry (Math. 18), Latin (10), Greek (10), French (10), German (10 or 35), History (14), Botany and Zoology (Biol. Sc. 11), Physics and Chemistry (Physical Science 11), Music (10). A minimum average of III Class is required to cancel Biological Science 11 or Physical Science 11; credit will not be allowed for one of the two Grade XIII examinations involved in Science credit.

In University College each Junior Group requires approximately one year's work from Grade XIII standing in the following four subjects:

Junior Group 1: English; Mathematics (three papers); French or German or Latin; Chemistry and Physics.

Junior Group 2: English; Mathematics (any two papers) or Latin; two of History, Science, Music, one or more foreign languages.

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

Junior Group 4: English; Latin; French; Mathematics (any two papers) or a third foreign language. Science is advisable if Mathematics or a third language is not available.

Notes: (1) Grade XIII Music may be substituted for one Junior Group option.

(2) At least one science course, with laboratory work, must be taken in the University.

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

Junior Group 1

This group is a prerequisite for General Science, for all the Honors Science courses and for Honors Mathematics and Physics. It is acceptable for Honors Geography, Honors Journalism, and Honors Philosophy.

Subject	*Credits*	*Subject*	*Credits*
English 10, 19, 20	7	Mathematics 10, 12, 18	4½
French 10, or German 10	3	Physical Education 10	1
Library Science 10	½	Health Lectures	0

Note: Group B is advised for General Science (prospective Medical) students, is permissible for entrance to Honors Biology and is prescribed for admission to all other Honors Science or Mathematics courses except Honors Geology.

Group A is prescribed for entrance to Honors Geology and permissible for prospective Medical and Biology students; it does not lead to Honors Courses in Chemistry, Chemistry and Physics, or Mathematics and Physics.

A	*Credits*	B	*Credits*
Botany 10	3	Botany 10	3
Chemistry 10	3	Chemistry 10	3
Geology 10	3	Mathematics 24	4
Physics 10	3	Physics 10	3
Zoology 10	3	Zoology 10	3

Junior Group 2

The Honors Courses for which Junior Group 2 is a prerequisite are Business Administration, Business Administration and Secretarial Science, Economic and Political Science, Philosophy, Physical and Health Education, Psychology, Pre-Theology, Recreation Education, and Social Science. It is also acceptable for Honors Geography, Honors Journalism, and Honors English and Philosophy.

Subject	*Credits*	*Subject*	*Credits*
English 10, 19, 20	7	Economics 20	3
Library Science 10	½	Psychology 20	3
Mathematics 10, 12, 18 (any two) (or 11) or Latin 10	3	Biological or Physical or Geological Science 11	3
Physical Education 10	1	Health Lectures	0
Business 20 or History 14 or 20	3		

Three of (including two years of one foreign language):

French 10, 20, German *1, *10, 20, Greek *1, *10, 20, Italian *1, *10, Latin 10, 20, 30, Hebrew *1, *10, Russian *1, *10, Spanish *1, *10, 20, Geography 20, Philosophy 20, Zoology 20b.

Note: For Journalism, History 14 is permissible instead of Business 20, and French is preferred to any other language. For Honors English and Philosophy, Philosophy, Psychology, and for Honors Social Science, a student should elect History 20 instead of Business 20. Honors Geography students should elect Biological Science 11. For Honors Economics the new Mathematics 11 is permissible instead of Math. 10 and 12. For Honors Physical, Health, and Recreation Education Mathematics 10 and 12 (or 11). Physical Science 11, Biological Science 11 and History 14 are prescribed. For additional information about the documents to be submitted for admission to the latter course, see page 46.

Junior Group 3

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

Subject	*Credits*	*Subject*	*Credits*
English 10, 19, 20	7	History 14, 20	6
Library Science 10	½	Biological or Physical or Geological Science 11	3
Mathematics 10, 12, 18 (any two) (or 11) or Latin 10	3	Health Lectures	0
Physical Education 10	1		

Four of (including two years each of two foreign languages):

French 10, 20, German *1, *10, 20, Greek *1, *10, 20, Hebrew *1, *10, Italian *1, *10, Latin 10, 20, 30, Russian *1, *10, Spanish *1, *10, 20 12

Junior Group 4

This Group is a prerequisite for Honors Classics, Honors Modern Languages, French and Latin (for these courses Latin 10 and 20 must be chosen). It is also acceptable for Honors Journalism and Honors Philosophy.

Subject	*Credits*	*Subject*	*Credits*
English 10, 19, 20	7	Physical Education 10	1
Library Science 10	½	Biological or Physical or Geological Science 11	3
Mathematics 10, 12, 18 (any two) (or 11) or Latin 10	3	Health Lectures	0

Six of (including two years each of three foreign languages):

French 10, 20, German *1, *10, 20, Greek *1, *10, 20, Hebrew *1, *10, Italian *1, *10, Latin 10 20, 30, Russian *1, *10, Spanish *1, *10, 20 18

Senior Groups

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

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

(p. 15). Courses previously counted cannot be given credit again in a Senior Group; an equal number of credits must be substituted for them.

Group A

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

Subject	*Credits*
English 32, 36, 38, 45, 49 (any two)	6
Economics 20, 32a or 32b or 42a or 42b	4½
History 30	3
At least 3 credits from History 31, 33, 44; Psychology 36, 39, 48; Philosophy 30	3
Psychology 20 or 30	3
At least 15 credits from: Astronomy 29a; Botany 23a, 31a, 36b, 43b; Chemistry 22, 33, 44, 46; Geology 10; Geography 20, 29, 30, 35, 40, 45; Mathematics 23b, 24, 35; Physics 204M; Zoology 20b, 22a, 25, 32x, 33x, 40b, 41.	15

Group B

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

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

Subjects	*Credits*
Psychology 20 (20x) (or 30), or Philosophy 30 (30x) (one not previously taken)	3
Biological or Physical or Geological Science 11 or Geography 20 (one not previously taken)	3
English 32, 36, 38, 45, 49 (any two)	6
History: 6 credits from 20, 30*, 31, 33a, 36, 44	6
Economics 32a or 32b or 42a or 42b	1½
At least 7½ credits (which must include Economics 20, if not previously taken) from: Economics 20, 28, 29, 32, 33, 46, 48, 49; Philosophy 20, 30, 30x, 31, 33x, 35, 36, 37x, 42, 43, 47, 47x; Psychology 35, 35x, 36, 36x, 37x, 38, 38x, 39, 44x, 46, 46x, 48, 49, 49x; Religious Knowledge 20x, 21x, 22x, 23x, 24x, 30x, 31x, 40x, 41x, 48x; Geography 20 (if not previously taken), 29, 30, 35, 40, 45; Music 10, 20, 30; Biblical Literature 20x, 21x, 30x, 31x, 40x; Church History 40x.	7½
At least 6 credits (not previously counted) from: Astronomy 29a; English 29, 46; French 20, 30, 40, 48, 271, 381, 491; German 20, 30, 31, 40, 41; Greek 10, 20, 29, 30, 40; Hebrew 1, 10; Italian 1, 10, 20; Journalism 20; Latin 20, 30, 39, 40; Russian 1, 10, 20, 29, 30, 37; Spanish 10, 20, 30, 31, 40, 41; Mathematics 10, 11, 12, 18, 23b, 24, 35; Military Studies. Senior Group courses, not already counted, in Economics, English, History, Philosophy, Psychology.	6

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

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 foreign language (French preferred); Latin or Mathematics (two papers); and Biology (III Class) or History, or Physics and Chemistry (III Class). 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 beginning any work of the third year.

Subject	*Credits*	*Subject*	*Credits*
Business 20	3	History 14 or a survey course in Science (unless both have been passed previously)	3
English 19, 20	4	One of: French 20, German 10 or 20, Spanish 10 or 20	3
Health Lectures	0	Secretarial Science 28, 29	6
Library Science 10	½		
Physical Education 10	1		

Third Year

Subject	*Credits*	*Subject*	*Credits*
Business 30	2	One of: French 33; German 20 or 30, 31; Spanish 20 or 30, 31	3 or 4
Economics 20	3	Secretarial Science 37, 38, 39	7½
English 35	3		
Psychology 20	3		

Fourth Year

Subject	*Credits*	*Subject*	*Credits*
English 32 or 38 or 49	3	One of: French 43; German 30, 31 or 40, 41; Spanish 30, 31 or 40, 41 or 231, 341	3 or 4
History 31	3		
Secretarial Science 47, 48, 49	12		

III. PRE-THEOLOGICAL GENERAL COURSE

Requirements for Admission: Secondary School Graduation Diploma, and Grade XIII (or equivalent) standing in English; History; Latin or French; Science or Mathematics (any two) or Greek.

The following course is prescribed for all students **under twenty-one years of age** who are entering Huron College. It is open also to University College students who may be interested in training for religious and social work. The New Testament Greek parts of the course are available at Huron College only. At the end of the second year, Huron College students are encouraged to transfer to Honors courses in the social sciences and may do so with the consent of the Principal of Huron College.

Second Year

Subject	*Credits*	*Subject*	*Credits*
English 19, 20	4	Economics 20	3
Health Lectures	0	Psychology 20	3
Library Science 10	½	Geology 11 or Physics 11 or Zoology 11 (one not chosen previously)	3
Physical Education 10	1		
Greek 1 or 1x	3		

Third Year

Subject	*Credits*	*Subject*	*Credits*
English 32 or 36 or 38	3	History 30, 33	4½
Greek 10 or 25x	3	Philosophy 30	3
Hebrew 1	3	Psychology 39	2

Fourth Year

Economics 28, 42a	4½	Hebrew 10	3
English 45 or 49	3	History 31	3
Greek 20 or 35x	3	Psychology 48	2

For the Huron College General Course (with Theological Options) for those students over twenty-one years of age, see the Huron College section, pages 111-112.

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 10, 12, 18. 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.

A two-year course leading to a Diploma in Home Economics is offered by Assumption College (Windsor) and Alma College (St. Thomas). For details see page 105 or consult the pamphlets of these colleges.

First Year

Subject	*Credits*	*Subject*	*Credits*
Botany 11N	1½	Library Science 10	½
English 10, 19	4	Math. 10, 12, 18 (any two) or Latin 10	3
Chemistry 11N	3	Physical Education 10	1
French 10 or German 10 or Spanish 10	3	Zoology 11N	1½
Health Lectures	0		

Second Year

Subject	*Credits*	*Subject*	*Credits*
Botany 36b	1½	Home Economics 23x, 25x, 26x	4
Chemistry 22	3	*Religious Knowledge 20x	2
English 20	3	Zoology 21	2
French 20 or German 20 or Spanish 20	3		

Third Year

Subject	*Credits*	*Subject*	*Credits*
Chemistry 33	3	Home Economics 30x, 31x, 32x, 33x, 34x	9½
Economics 20	3	Psychology 20	3
English 32 or 36 or 38	3		

Fourth Year

Subject	*Credits*		
Chemistry 46	3	Home Economics 40x, 41x, 42x, 45bx, 46x, 47x, 48x	15

V. GENERAL COURSE FOR TEACHERS

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

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

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*For Ursuline College students only.

The subjects whose number is followed by T count for graduation in this course only (see pp. 103-4). They may be offered in the Summer School, Correspondence and/or Extension Departments. At least one Science Course, with Laboratory, must be taken in the University.

Second Year

Subject	*Credits*	*Subject*	*Credits*
Economics 20 or 28	3	French 20 (or other foreign language)	3
English 19S, 20	4	Geology 11	3
Library Science 10S	1	Handicrafts 20T	1½
Psychology 20	3	Home Economics 25, 26	2
Zoology 23S	1½	Mathematics 20T	1
At least 5 credits from:		Music 20T	1½
Art 20T	1½	Physics 11	3
Astronomy 29a	1	Secretarial Science 29a	1½
Educational Counseling 20T	1	Zoology 11	3
English 26T	1		

Third Year

Subject	*Credits*	*Subject*	*Credits*
Economics 42a or 42b	1½	English 33T, 36S	2½
English 29S, 32 or 38, 31T	5	French 30 (or other foreign language)	3
Geography 20	3	Geography 35	3
History 31	3	Handicrafts 30T	1½
Psychology 35S, 36	3½	Home Economics 30a, 31a, 32a	4½
At least 3 credits from:		Music 30T	1½
Art 30T	1½	Physical Education 20	1
Economics 29S, 32	4	Secretarial Science 29b	1½
*Education	3	Second year options not chosen previously.	
Educational Counseling 30T	1		

Fourth Year

Subject	*Credits*	*Subject*	*Credits*
English 32 or 38 (the one not chosen previously) or 49	3	English 46 or 46S	2 or 3
Geography 45	3	French 40 (or other foreign language)	3
History 35	2	Home Economics 30b, 31b, 32b, 33, 34	5
Psychology 39, 48	4	Physical Education 30	1
Public Health 30S	1½	Psychology 46, 49	4
At least 5 credits from:		Options of the second or third year not chosen previously.	
Economics 39T	1½		
*Education	3		

VI. GENERAL COURSE WITH MUSIC OPTIONS (See Pages 114-115)

VII. GENERAL SCIENCE COURSE FOR PROSPECTIVE MEDICAL STUDENTS

Note: Junior Group 1 (p. 27) is regarded as the first two years of the General Science Course. Grade XIII English, Algebra, Geometry, Trigonometry, and French or German will be accepted instead of English 10, Mathematics 10, 12, 18, and French 10 or German 10 and will cancel the first of these two years. Grade XIII Chemistry and Physics are also essential. Toward the end of the Junior Group program, approximately forty of the best students applying to enter Medicine will be selected, on the basis of their academic records and the results of personal interviews with members of the Admissions Committee of the Faculty of Medicine, for admission to the following Third Year of General Science which, when completed satisfactorily, will lead directly to the four-year Medical Course.

Students who have completed Junior Group 1 and have not been accepted by the Admissions Commitee to the Faculty of Medicine may, if their grades are satisfactory, proceed to one of the Honors Science courses. On completion of the Honors third year they may again apply for admission to the Faculty of Medicine.

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

A graduate in any Honors Course in the Faculty of Arts and Science who has credit for Botany 10, Chemistry 10, Physics 10 and Zoology 10, is also eligible for admission to the Faculty of Medicine and may submit his application to the Admission Committee. Biological Science 11 and Physical Science 11 will not be regarded as the equivalents of the Science courses numbered 10.

Third Year

Subject	*Credits*	*Subject*	*Credits*
Chemistry 203M, 204M	5	At least two and not more than three of:	
English 33M	2	Economics 20 or 28, Geography 20, History 30, Philosophy 32, Psychology 20	5 to 9
Mathematics 35	2		
Physics 204M	2½		
Zoology 200M	3½		

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.

VIII. 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:

Subject	*Credits*	*Subject*	*Credits*
Botany 36b	1½	Health Lectures	0
Chemistry 22a	1½	Library Science 10	½
Economics 28	3	Physical Education 10	1
English 19, 20	4	Psychology 20	3
Language of Grade XIII continued	3	Zoology 21	2

Part B: Thirty-two continuous months in a hospital School of Nursing where there shall be a course that is in all its details approved by a Committee of which the Dean of the School of Nursing is Convener.

Part C: One academic year in the Graduate Division of the School of Nursing of this University. The student may choose the Public Health Nursing or the Instructor in Nursing option. She must inform the Dean of the School of Nursing by June 30th of the option she has chosen for her final year's work.

No conditions may be carried from Part A to Part B, or from Part B to Part C, of this course.

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 foreign language (preferably French), and any four additional papers. Equivalent standing includes first year college courses available for adult special students over twenty-one years of age.

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

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

(4) The completion of one academic year in one of the specialized professional programs (Public Health Nursing or Instructor in Nursing) in this University's School of Nursing. Applicants who hold certificates or diplomas of specialized professional

study at another University are required to complete one term (or semester) of study in this University's School of Nursing in addition to the Arts and Science subjects of the degree course.

Subject	*Credits*
Chemistry 11N or Botany 11N and Zoology 11N	3
English 19, 20	4
Language of Grade XIII continued	3
Physical Education 10	1
Nine credits of options from:	
Economics 28, 39, 42a, 48, 49 (one or more courses not chosen previously)	
Options (continued):	
English 36, 38	
Geography 20	
History 30, 31	
Journalism 20, 357, 369, 372, 490	
Philosophy 20	
Psychology 20, 36, 48, 49	9

HONORS COURSES

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

Biology

Requirements for Admission: Group 1A or 1B, page 27. The student must obtain an average of at least 60% in the subjects of Group A or Group B, and not less than 60% in Botany and 60% in Zoology.

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

Second Year

Subject	*Credits*
Botany 250	3½
Chemistry 200	3½
Geology (10) or Math. (35) (the subject not chosen previously)	3 or 2
German 5 or Russian 1	3
Physics 204	3½
Zoology 250	4

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.

Subject	*Credits*
Botany 352b	2½
Chemistry 303	3
German 35 or Russian 10	2 or 3
Zoology 350, 357	4½
One of: Economics 20, English 32 or 35, Philosophy 20, Psychology 30	3
Three of: Botany 354, 361, Zoology 354, 360	6½ or 7

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

Subject	*Credits*
Botany 453a, 453b or 454b, 460, 461a, 466b	15
Chemistry 406	3
French 45	1
German 45 or Russian 45	1
Zoology 455	2

(b) Zoology Option

Subject	*Credits*
Botany 466b	2½
Chemistry 406	3
French 45	1
German 45 or Russian 45	1
Zoology 452 (II), 454, 455, 460, 463	10
Two of: Zoology 452 (I), 453, 461	4

Business Administration

Requirements for Admission: Group 2, page 28, with at least 60% in Economics and 60% in Business.

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

Second Year

Subject	*Credits*	*Subject*	*Credits*
Business 250 (Accounting)	3	Six credits from English 32, 36, 38, French 20, 30, 33, 43, History 31, 35, 44, Philosophy 30 or 32, Psychology 46, 49, Spanish 10, 20, 30, 31	6
English 35	3		
Six credits from: Economics 229, 233, 257, 300, 332, 346, 42b	6		

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 is required.

Subject	*Credits*	*Subject*	*Credits*
Business 351 (Marketing)	3	Three credits chosen from the Humanities and the Social Sciences, as approved by the Dean of Business Administration	3
Business 353 (Business Finance)	3		
Business 354 (Production Management)	3		
Business 357 (Control)	6		

Fourth Year

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

Subject	*Credits*	*Subject*	*Credits*
Business 458 (Administrative Practices)	3	454 (Production Management)	
Six credits chosen from the Humanities and the Social Sciences, as approved by the Dean:	6	455a (Management Statistics)	
		455b (Statistical Quality Control)	
		456 (Commercial Law)	
Nine credits chosen from Business Administration courses, as approved by the Dean:		459 (Research, by permission only)	
		460b (Auditing)	
450a (Industrial Accounting)		461 (Retailing)	
451 (Sales Management)		464a (Purchasing)	
452 (Personnel Administration)		470 (Financial Accounting)	
453 (Financial Management)		471 (Advertising)	
		481b (Market Analysis	9

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 28, 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

Subject	*Credits*	*Subject*	*Credits*
Business 36 (Business Mathematics) and 250 (Accounting)	5	Economics 229, 233, 257	8
		Secretarial Science 28, 29	6

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.

Subject	*Credits*	*Subject*	*Credits*
Business 351 (Marketing) and 357 (Control)	9	English 35	3
		Secretarial Science 37, 38, 39	7½

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.

Subject	*Credits*
Business 456 (Commercial Law and Documents of Commerce) and 460b. (Auditing)	4½
Economics 46 or English 32 or 49	3
History 30 or 31 or 44	3 or 2
Secretarial Science 47	7

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 B, page 27. The student must obtain an average of at least 60% in the subjects of Group B, and not less than 60% in Chemistry, and an average of 60% in Physics and Mathematics.

Second Year

Subject	*Credits*
Chemistry 200, 251, 252	9½
German 5 or Russian 1	3
Physics 255	3½
Botany 250 or Geology 251 or Zoology 250	3 or 4

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.

Subject	*Credits*
Chemistry 353, 354	10
German 35 or Russian 10	2 or 3
Physics 254	3½
Economics 20 or English 32 or 35 or Geography 20 or 29 or Psychology 30	3

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.

Subject	*Credits*
Chemistry 452, 453, 454, 457, 458, 459	15½
French 45	1
German 45 or Russian 45	1
Physics 456	2

Chemistry and Physics

Requirements for Admission: As for Honors Chemistry (above).

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. See page 18.

Second Year

Subject	*Credits*
Chemistry 200, 252	7½
German 5 or Russian 1	3
Mathematics 254	3
Physics 251, 254, 255	8½

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.

Subject	*Credits*
Chemistry 353, 354	10
German 35 or Russian 10	2 or 3
Mathematics 354	3
Physics 353, 366	5

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.

Subject	*Credits*
Chemistry 452	2½
French 45	1
German 45 or Russian 45	1
Physics 456	2
Economics 20 or English 32 or 35 or Geography 20 or 29 or Psychology 30	3

Either the Chemistry or the Physics Option below:

CHEMISTRY OPTION		PHYSICS OPTION	
Chemistry 453, 454, 457, 458, 459	13	Physics 454, 455, 457, 458 459	13

Classics

Requirements for Admission: Group 4, page 28, with an average of 60% in Latin 10 and 20 and 60% in Greek 10 and 20.

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

Second Year

Subject	*Credits*	*Subject*	*Credits*
English 32	3	Greek and Latin 257	3
French 20 or German 20 or Hebrew 20	3	Latin 230, 250, 251	5
Greek 230, 250, 251	4		

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.

Subject	*Credits*	*Subject*	*Credits*
English 45	3	Latin 340, 350, 351, 352	6
Greek 340, 350, 351, 352	6		

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.

Subject	*Credits*	*Subject*	*Credits*
Greek 450, 451, 452, 453, 457	9	Latin 450, 451, 452, 453, 457	9

Economic and Political Science

Requirements for Admission: Group 2, page 28, with at least 60% in Economics, 60% in either Business or Psychology, and an average of 60% in those three subjects.

Second Year

Subject	*Credits*	*Subject*	*Credits*
Business 250 (Accounting)	3	Physics 11 or Zoology 11 (one not chosen previously) or	
Economics 228, 229, 233, 257	11	Mathematics 24a	3 or 2
English 35	3		

Third Year

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

Subject	*Credits*	*Subject*	*Credits*
Economics 300, 332, 346, 355	12	Options continued:	
History 30	3	Geography 20	
Five credits from:		German 20, 30	
Economics 339, 342b, 348, 351, 353, 354		History 31 or 44	
Business 351 (Marketing), 354 (Production Management)		Mathematics 24a (if not chosen previously)	
English 32, 36, 38		Philosophy 30 and 31 or 42	
French 30, 33		Psychology 46	
		Spanish 10, 20, 30, 31	5

Fourth Year

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

Subject	*Credits*
Economics 450, 452, 453 (or 353), 460	11
History 31 or 44 or 257 (one not chosen previously)	2 or 3
Four credits from:	
Economics 449, 462b, 478	
Options continued:	
Geography 35, 45	
History 356b	
Mathematics 250 or 254 or 355	
Psychology 48, 49	
Third Year Options not chosen previously.	

English Language and Literature

Requirements for Admission: Group 3, page 28, 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 qualification for the High School Assistant's Certificate, Type A, English. See page 18.

Second Year

Subject	*Credits*
English 236, 250, 254	7
Greek 29	1
History 35	2
Two of:	
French 270; German 290; Latin 230, 250; Greek 230, 250	6

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.

Subject	*Credits*
English 350, 356, 357, 358, 363	12
French 380 or German 390 or Latin 340, 352 or Greek 340, 352	3
Philosophy 30 or Psychology 20 or a second Honors language	3

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.

Subject	*Credits*
English 450, 459, 460, 463	11
English 441 or 470	1
French 490 or German 480 or Latin 450, 452 or Greek 452	3 or 4

English and French

Requirements for Admission: Group 3 or Group 4, page 28, 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

Subject	*Credits*
English 236, 250, 254	7
French 270, 271, 290	6
History 35	2
German 290 or Latin 230, 250, or *Spanish 230, 231	3 or 4

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.

Subject	*Credits*
English 350, 356, 357, 363	9
French 380, 381	6
*Greek 29	1

Fourth Year

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

Subject	*Credits*
English 450, 459, 460	9
French 450, 490, 491	9

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

English and Latin

Requirements for Admission: Junior Group 3 or 4, page 28, 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

Subject	*Credits*	*Subject*	*Credits*
English 236, 250, 254	7	French 270 or Greek 20 or Greek 230 and 250 or German 20 or 290	3
Greek 29	1		
History 257	3		
Latin 230, 250, 251	5		

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.

Subject	*Credits*	*Subject*	*Credits*
English 350, 356, 357, 363	9	Latin 340, 350, 351, 352	6
History 35	2		

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.

Subject	*Credits*	*Subject*	*Credits*
English 450, 459, 460	9	Latin 450, 451, 452, 453, 457	9

English and Philosophy

Requirements for Admission: Junior Group 2 (including History), or Junior Group 3, page 28, 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

Subject	*Credits*	*Subject*	*Credits*
English 250, 254	4	Options continued:	
Philosophy 230, 231	5		
Nine credits of options (including Psychology 20 if not chosen previously) from Classics, Economics, English, German, History, Philosophy, Political Science and Romance Languages, as approved by the Heads of the two major Departments	9		

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.

Subject	*Credits*	*Subject*	*Credits*
English 350, 356	6	Seven credits of options, to be selected as in the Second Year	7
Philosophy 336, 347, 454	5		

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.

Subject	*Credits*	*Subject*	*Credits*
English 450, 459, 460	9	Philosophy 443, 457, 458, 462	9

English and Philosophy

COURSE B (Language Option)

Second Year

Subject	*Credits*	*Subject*	*Credits*
English 250, 254, and 236 or 358	7	Options approved by the Heads of the Departments of English and Philosophy	2 or 3
Philosophy 230, 231	5		
*French 270, 271 or German 290, 291 or Latin 230, 251	4 or 5		

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.

Subject	*Credits*	*Subject*	*Credits*
English 350, 356, 357, 363	9	Philosophy 336, 347, and 335 or 443	6
French 380 or German 390 or Latin 340, 250	3		

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.

Subject	*Credits*	*Subject*	*Credits*
Nine credits from English 441, 450, 459, 460, 463	9	Philosophy 457, 458, 462	7
		French 381 or German 391 or Latin 452	2

French and German

(See Modern Languages and Literatures)

French and Latin

Requirements for Admission: Group 4, page 28, 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

Subject	*Credits*	*Subject*	*Credits*
English 35	3	German 20 or Greek 20	3
French 270, 271, 290	6	Latin 230, 250, 251, 257	8

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.

Subject	*Credits*	*Subject*	*Credits*
French 380, 381	6	History 30	3
German 30, 31 or Greek 30	3	Latin 340, 350, 351, 352	6
Greek 29	1		

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.

Subject	*Credits*	*Subject*	*Credits*
French 450, 490, 491	9	Latin 450, 451, 452, 453	7

French and Spanish

(See Modern Languages and Literatures)

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

Geography

Requirements for Admission: Junior Group 1 (page 27) or Junior Group 2 (page 28) with an average of at least 60% in the subjects taken.

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

Second Year

Subject	*Credits*
Geography **20, 229	6
Mathematics 35	2
At least four credits from: Botany 23a, Economics 228, 257, History 14 or *20 (if not chosen previously) or *36, Mathematics 24, Zoology 22	4
Division A or Division B (A follows Junior Group 1, B follows Junior Group 2)	9

Subject	*Credits*
Division A subjects:	
Economics 20	3
German 5 or Russian 1	3
Psychology 20	3
Division B subjects:	
Botany 10	3
Geology 10	3
Philosophy 30 or one additional year's work in a modern foreign language	3

Third Year

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

Subject	*Credits*
Economics 332	3
English 35	3
Geography 330, 335	6
Geology 256	1½
History 31	3
Mathematics 29a, 359b	2

Subject	*Credits*
Three credits of options from: Economics 342, 348, 354 German 35 or Russian 10 *History 36 Philosophy 30 (if not chosen previously)	
Second year options not already chosen	3

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.

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.

Subject	*Credits*
Economics 351	3
French 45 or German 45 or Russian 45	1
Geography 440, 445	6
Geology 356, 467	4½
History 44	2

Subject	*Credits*
Three credits of options from: Economics 39, 300, 462b English 38 or 49 Geology 263 Philosophy 47 Psychology 36 or 49 Zoology 453	
Second or Third Year options not already chosen	3

NOTE: Students in Fourth Year Honors Geography shall attend all graduate seminars in Geography (500 and 501) without credit.

Geology

Requirements for Admission: Group 1A, page 27. The student must obtain an average of 60% in the subjects of Group A and not less than 60% in Geology.

Consult the department head regarding options in the various years.

At the beginning of each year, the department will conduct a field trip of one week's duration, which all Third and Fourth Year students will be expected to take.

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

Each Honors Geology student will contribute thirty dollars at the beginning of his third and fourth years, to defray the major expenses of the two trips he will take during his course. The balance of the cost will be paid by the University.

Second Year

Subject	*Credits*	*Subject*	*Credits*
Chemistry 200	3½	German 5 or Russian 1	3
Geology 251, 252, 263	7½	Mathematics 35	2
Geology 256 or Zoology 350	1½ or 2½	Physics 204	3½

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.

Subject	*Credits*	*Subject*	*Credits*
English 32 or 35 or Economics 20 or Psychology 30	3	Geology 351, 354, 356	8
Geography 229 or 335 or 445	3	Geology 363 or 365	3 or 2
		German 35 or Russian 10	2 or 3

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.

Subject	*Credits*	*Subject*	*Credits*
Business 20 or History 36 or Philosophy 30	3	Geology 452, 454, 455, 458, 460	13½
French 45	1	Geology 463 or 457 or 467	2½
German 45 or Russian 45	1	Geology 465 (optional) (extra credits allowed on completion)	2

History

Requirements for Admission: Junior Group 3, page 28, with 60% in History and an average of 60% in English and in the two languages chosen.

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, providing the options marked by an asterisk are taken. See page 18.

Second Year

Subject	*Credits*	*Subject*	*Credits*
*Business 20 or Philosophy 30	3	Two of: French 30, German 30, Greek 30, Latin 30, Spanish 30, *Geography 20	3
Economics 20	3		
History 236, 257	6		

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.

Subject	*Credits*	*Subject*	*Credits*
Economics 229	3	*Economics 233 or English 250, 254 or Literature courses in two foreign languages, to be arranged	3 or 4
*Geography 335 or Psychology 20	3		
History 35, 331, 333a, 354b, 356	9½		

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.

Subject	*Credits*	*Subject*	*Credits*
Economics 332, 450a, 452a	6	or English 32 or 38 or 45 or 49, or Literature courses in two foreign languages, to be arranged	3 or 4
History 444, 452, 455	9		
*Geography 445 or Economics 450b and 452b, or 346 or 453,			

Journalism

Requirements for Admission: An average of 60% in any Junior Group, and evidence of aptitude for Journalism.

Second Year

Subject	*Credits*	*Subject*	*Credits*
Economics 32	3	At least eight credits of options approved by the Journalism Dept. (to include Economics 20 if not chosen previously)	8
English 35	3		
History 31	3		
Journalism 20	3		

Third Year

For admission to the Third Year 66% is required in Journalism 20, an average of 60% in the other subjects of the Second Year, and continuing evidence of aptitude.

Subject	*Credits*	*Subject*	*Credits*
History 44	2	At least six credits of options approved by the Journalism Department	6
Journalism 351, 357, 369, 372	9		

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.

Subject	*Credits*	*Subject*	*Credits*
Journalism 451, 455, 462, 476, 478, 481, 490	16½	One or two Journalism seminar courses, or one course in a non-Journalism subject approved by the Department	1 to 3

Mathematics (including Actuarial Science) and Physics

Requirements for Admission: Group 1B, page 27. The student must obtain an average of 60% in the subjects of Group B, with at least 60% in Mathematics and 60% in Physics.

Second Year

Subject	*Credits*	*Subject*	*Credits*
German 5	3	Physics 250, 251, 254, 255	10½
Mathematics 250, 252, 254	7½		

(a) Mathematics Option

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

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.

Subject	*Credits*	*Subject*	*Credits*
Economics 20 or English 35 or Philosophy 30 or Psychology 30	3	Physics 350	3
German 35	2	One of Groups I and II below	8
		Mathematics 354	3

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.

Subject	*Credits*	*Subject*	*Credits*
French 45	1	Mathematics 456	3
German 45	1	Physics 456	2
Economics 32 or History 30	3	One of Groups I and II below	8

Note: The following two groups are given in alternate years, Group II in 1952-53.

GROUP I

Subject	*Credits*
Mathematics 351a, 355, 358, 359	8

GROUP II

Subject	*Credits*
Mathematics 450, 453, 467	6
Mathematics 452 (for Math. Option) or 463 (for Act. Sc.)	2

(b) Actuarial Science Option

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

This option is intended for students who wish to become actuaries. It will prepare students to write three preliminary examinations sponsored by the Society of Actuaries. The first of these examinations, a Language Aptitude Examination, may be written at any time, the second at the end of the second year, and the third at the end of the third or fourth year. In order to become an Associate of the Society of Actuaries, a candidate must also pass Parts 4 and 5 of the actuarial examinations. The first three preliminary examinations are held about May 15 and may be written in London. Applications to write one or more of the first three examinations must be received by March 15th.

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

Third Year

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

Subject	*Credits*	*Subject*	*Credits*
Business 250 (Accounting)	3	Mathematics 354	3
Economics 20 or English 35	3	Group I or II (see Math. Option)	8
German 35	2		

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.

Subject	*Credits*	*Subject*	*Credits*
Business 353 (Business Finance)	3	Mathematics 456	3
Economics 353 or 453	3	Group I or II (see Math. Option)	8
History 30	3		

(c) General Physics Option

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

Third Year

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

Subject	*Credits*	*Subject*	*Credits*
German 35	2	Physics 350, 351, 353, 356, 359	13½
Mathematics 354a, 456	4½		

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.

Subject	*Credits*	*Subject*	*Credits*
Economics 20 or English 32 or 35 or Psychology 30	3	German 45	1
French 45	1	Physics 454, 455, 456, 457, 458, 459	15

(d) Radio Physics Option

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

This option earns the B. Sc. degree.

The purpose of this course is to provide students with sufficient theoretical and practical background to enable them, as graduates, to occupy responsible technical positions in the various branches of the radio industry, including frequency modu-

lation, television and radar; in communications generally; in the field of industrial electronics; and in development and research laboratories.

Third Year

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

Subject	*Credits*	*Subject*	*Credits*
Economics 20	3	Mathematics 354a, 456	4½
German 35	2	Physics 351, 376, 377, 379	11½

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.

Subject	*Credits*	*Subject*	*Credits*
French 45	1	Physics 455, 456, 457, 458, 476, 477, 479	17
German 45	1		

Modern Languages and Literatures

Requirements for Admission: Group 4, page 28, 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

Subject	*Credits*	*Subject*	*Credits*
English 35	3	Greek *29	1
French 270, 271, 290	6	At least three credits in a foreign language not chosen as a major	3
German 290, 291 or Spanish *230, 231, 260	5		

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.

Subject	*Credits*	*Subject*	*Credits*
French 380, 381	6	History 30	3
German 333, 390, 391 or Spanish 340, 341, 360	6 or 7	At least three credits in the minor foreign language of the Second Year	3

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.

Subject	*Credits*	*Subject*	*Credits*
French 450, 490, 491	9	One course in the minor foreign language continued from the Third Year	2or 3
German 420, 480, 481 or Spanish 451, 460	6 or 7		

Philosophy

(This course is offered in University College only)

Requirements for Admission: The completion of any Junior Group with at least 60% in English and 60% in each of five other subjects.

Second Year

Subject	*Credits*	*Subject*	*Credits*
English 32 or 38 or History 257	3	Philosophy 230, 231	5
Geography 20 or Physics 11 or Zoology 11	3	At least six credits from options approved by the Department of Philosophy	6

*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.

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.

Subject	*Credits*	*Subject*	*Credits*
Philosophy 335, 336, 347, 350	9	At least seven credits from options approved by the Department of Philosophy	7
Psychology 49	2		

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.

Subject	*Credits*	*Subject*	*Credits*
Philosophy 443, 454, 456, 457, 458, 462	12	At least six credits from options approved by the Department of Philosophy	6

Physical, Health, and Recreation Education

Requirements for Admission: Group 2, page 28, with an average of at least 60% in the subjects taken in the University. The footnotes to Junior Group 2 specify the Junior Group options to be selected. The following information should be submitted along with the application for admission to the Honors Course:

1. **Personal Health Certificate** from the applicant's family physician, to include significant information regarding the health of the applicant and his medical fitness to take either of the Honors options.
2. **Sports Achievement and Leadership Assessment** from the applicant's secondary school Principal, in collaboration with his physical education director, to supply information regarding the applicant's sports achievement, his leadership ability, and his general personality development. Applicants for the Honors Recreation Option should be rated also on any previous experience in music, drama, crafts and hobbies, dancing and camping.
3. It is advisable but not essential to possess a Life Saving Certificate and to select as a Grade XII option either Business Practice or Music.

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.

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

Both Options lead to the Honors B. A. degree.

Second Year

Subject	*Credits*	*Subject*	*Credits*
English 32 or 35 or 38	3	Physics 12	3
Philosophy 32	2	Psychology 36	2
Physical, Health, and Recreation Ed. 251, 258, 266	9	Zoology 21	2

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

Subject	*Credits*	*Subject*	*Credits*
Economics 28	3	Physical, Health and Recreation Ed. 351, 354, 356, 359, 393a, 393b	10
Geography 20	3	Zoology 40b	1½
Home Economics 31 (lectures only)	2		

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.

Subject	*Credits*
Economics 42a, 42b	3
Psychology 49	2
Three credits of options 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)	3
Physical, Health, and Recreation Ed. 379, 450, 451, 452a, 452b, 453a, 453b, 457	13

(b) Recreation 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.

Subject	*Credits*
Economics 28	3
English 36	3
Three credits of options to be approved by the Head of the Department	3
Physical, Health and Recreation Ed. 371, 372, 375, 376, 379, 393a, 393b	11

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.

Subject	*Credits*
Economics 42a, 42b	3
Psychology 49	2
Four credits of options to be approved by the Head of the Department	4
Physical, Health and Recreation Ed. 450, 473, 474, 476, 477b, 478	11½

Physics

(See Chemistry and Physics, and Mathematics and Physics)

Psychology

(This course is offered in University College only)

Requirements for Admission: Group 2, page 28, with at least 60% in Economics and 60% in Psychology.

Second Year

Subject	*Credits*
English 32 or 38	3
Geology 11 or Physics 11 or Zoology 11 (one not chosen previously)	3
Philosophy 20 or 30	3
Psychology 234, 235, 236	7
Two credits of options approved by the Dept. of Psychology	2

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.

Subject	*Credits*
Psychology 337, 338, 339, 349, 355	11
Seven credits of options approved by the Dept. of Psychology	7

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.

Subject	*Credits*
Philosophy 42	2
Psychology 444, 446, 448, 459	9
Six credits of options approved by the Dept. of Psychology	6

Social Science

Requirements for Admission: Junior Group 2, page 28, with 60% in Economics and Psychology, with History 14 or 20 in place of Business 20, and Zoology 11 chosen in preference to Physics 11.

Second Year

Subject	*Credits*	*Subject*	*Credits*
Economics 228, 229, 233	9	Psychology 234, 235, 236	7
Philosophy 230	3		

Third Year

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

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

Subject	*Credits*	*Subject*	*Credits*
Economics 332, 346, 348	9	Psychology 339, 349, 355	6
History 30 (or History 36 if 20 has been chosen in Junior Group 2)	3	Economics 42b or Philosophy 336 or 347 or Psychology 337 or 338	1½ or 2

Fourth Year

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

Subject	*Credits*	*Subject*	*Credits*
Economics 449, 450, 453, 478	12	Psychology 446, 448	4
Philosophy 443, 462	4		

DIPLOMA COURSES

(i) Public Administration

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

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

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

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

Subject	*Credits*	*Subject*	*Credits*
Business 458 (Admin. Practices)	3	Options continued:	
Economics 332, 462b	4½	Business 250 (Accounting), 453 (Financial Mgt.), 459 (research in problems of industry or distribution), 460b (Auditing)	6
History 31	3		
Six credits from:			
Economics 233, 42b, 453			

(ii) Business Administration

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

An average of 60% in this one-year course is required for the diploma in Business Administration. Those who obtain 66% may proceed to an M.B.A. degree in one additional year's work.

Subject	*Credits*
Business:	
551 (Marketing)	
553 (Finance)	
554 (Production Management)	
558 (Administrative Practices)	
557 (Control)	
A staff-supervised field-trip to industrial plants.	
	18

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

DESCRIPTION OF COURSES

BOTANY

University College

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

Associate Professor: DUNCAN A. MCLARTY, Ph.D.

Honorary Lecturers: R. A. LUDWIG, B.S.A., M.Sc., Ph.D., W. H. MINSHALL, B.S.A., M.Sc., Ph.D.

Instructor, Plant Culture: JOHN K. JOHANNESEN, Diploma (Copenhagen).

Demonstrators: GERALD BELL, B.Sc., ALFRED BOLTON, B.Sc., J. G. MANSON, B.Sc., ELIZABETH PRESTON, B.Sc.

Assumption College

Professor: REV. A. J. GRANT, M.A.

Lecturer: ROBERT J. DOYLE, M.A.

Waterloo College

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

Assistant Professor: C. M. CARMICHAEL, M.Sc.

10. **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 10.**
2 lectures, 3 laboratory hours a week: 3 credits.

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: 1½ credits.

22b. **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: 2 credits.
Prerequisites: Botany 10 or Botany 11aN (60%) or Zoology 11 (60%).

23a. **Plant Ecology:** The relationship between plants and their surroundings, including the recognition and classification of common plants.
2 lectures, 4 laboratory hours a week, one term: 2 credits.
Prerequisites: same as for 22b.

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

Prerequisites: Botany 23a and 22b, or Botany 10, or Botany 11aN (60%), or Zoology 11 (60%).

36b. **Elementary Bacteriology:** The common economic organisms in reference to: water, food supplies, public health and civic problems. Prescribed for second year students in Home Economics: optional for others.
2 lectures, 3 laboratory hours a week: 1½ credits.

Prerequisites: as in 31a.

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: 2 credits.

Prerequisite: Botany 23a.

Honors Courses

250. **The Vascular Plants:** The morphology and development of the Pteridophyta and Spermatophyta, stressing the Seed Habit.
2 lectures, 3 laboratory hours a week: 3½ credits.

Prerequisite: Junior Group 1.

352b. **Plant Physiology:** The functions and reactions of plants and their organs.
2 lectures, 6 laboratory hours a week, one term: 2½ credits.

Prerequisite: Botany 250.

354a. **Cytology:** A study of the structure and functions of cells and tissues, including the technique of preparing materials for cytological studies. 2 lectures, 6 laboratory hours a week, one term: 2½ credits.

Prerequisite: Botany 250.

357. **Historical Biology:** See Zoology 357.
2 hours a week: 2 credits.

361. **Mycology and Plant Pathology:** Plant Diseases and classification, morphology and structure of the fungi.
1 lecture, 2 laboratory hours a week: 2 credits.

Prerequisite: Botany 250.

453a. **Plant Ecology:** The structure of vegetation and its relation to the environment.
2 lectures, 6 laboratory hours a week, one term: 2½ credits.

Prerequisite: Botany 250.

453b. **Plant Geography and Taxonomy:** The principles of taxonomy and the identification and distribution of plants.
2 lectures, 6 laboratory hours a week, one term: 2½ credits.

Prerequisite: Botany 453a.

454b. **Plant Anatomy:** The anatomy and histology of the Pteridophyta and Spermatophyta, including some Palaeobotany.
2 lectures, 6 laboratory hours a week, one term: 2½ credits.

Prerequisite: Botany 352b.

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

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

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

Prerequisite: Botany 352b.

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: 2½ credits.

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: 2½ credits.

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: 2½ credits.

Prerequisite: Botany 361 or 461a.

Graduate Courses

553. **Plant Geography** (Hart).

554. **Advanced Plant Cytology** (McLarty).

555. **Plant Genetics** (McLarty).

556. **Applied and Economic Botany** (Hart).

559. **Research Problems** (Staff).

561. **Advanced Phytopathology** (Walker).

BUSINESS ADMINISTRATION

University College

(See the School of Business Administration Announcement.)

Assumption College

Professor: GILBERT R. HORNE, M.A.

Waterloo College

Assistant Professor: *H. O. J. OVERGAARD, B.A., M.S.

Lecturers: J. O. BINGEMAN, B.A., PAUL KRAUEL, C.A.

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

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

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

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

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.

*On leave, 1951-52.

CHEMISTRY

University College

Professors: J. A. GUNTON, Ph.D., F.C.I.C., Head of the Department; JAMES W. BURNS, M.Sc., F.C.I.C., Professor of Organic Chemistry.

Associate Professors: K. W. HUNTEN, M.Sc., Ph.D., F.C.I.C.; C. SIVERTZ, M.Sc., Ph.D.; J. K. WATSON, Ph.D., M.C.I.C.

Assistant Professor: F. L. M. PATTISON, Ph.D., A.R.I.C.

Honorary Professor: HUBERT MARTIN, D.Sc., A.R.C.S., F.R.I.C.

Honorary Lecturers: CHARLES R. ENGEL, Chem. Ing., D.Sc.; ELVINS Y. SPENCER, Ph.D.

Instructor: A. W. BOYD, M.A., Ph.D.

Senior Demonstrator: ANTON SCHAVO, M.Sc.

Demonstrators: EDWARD BURRAN, B.A.; RICHARD D. O'BRIEN, B.Sc.; MARIO ONYSZCHUK, B.Sc.; LORNE A. ROBB, B.Sc.

Fellows and Scholars: J. RUSSELL ROBINSON, M.S.A. (C.I.L.); WILLIAM ELSDON, B.Sc. (N.R.C.).

Research Assistants: STUART B. D. HUNT, M.Sc. (D.R.B.); ROBERT W. WHITE, B.Sc. (D.R.B.).

Assumption College

Professor: F. A. DEMARCO, M.A.Sc., Ph.D.

Associate Professor: SISTER M. ISABEL OF CARMEL, M.Sc.

Instructors: REV. J. R. DOUGHERTY, B.A.; SISTER MICHAEL MARY, B.A.

Waterloo College

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

Assistant Professor: C. M. CARMICHAEL, M.Sc.

10. **General Chemistry and Qualitative Analysis:** For Junior Group 1.
In University and Waterloo Colleges,
2 lectures, 3 laboratory hours a week: 3 credits.
In Assumption College,
2 lectures, 4 laboratory hours a week: 4 credits.

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

22. **Analytical:** For Home Economics, Nursing and General Course students. 2 lectures, 3 laboratory hours a week: 3 credits.
Prerequisite: Chemistry 10 or 11N.

33. **Organic Chemistry:** For Home Economics and General Course students. 2 lectures, 3 laboratory hours a week: 3 credits.
Prerequisites: Chemistry 10 or 11N.

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

46. **Biochemistry and Food Analysis:** For Home Economics and General Course students. 2 lectures, 3 laboratory hours a week: 3 credits.
Prerequisites: Chemistry 22 and 33.

Honors Courses

The student in both Honors Chemistry and 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: 3½ credits.

203M. **Organic Chemistry:** For prospective medical students.
2 lectures (both terms) and 3 laboratory hours (one term) a week: 2½ credits.

204M. **Physical Chemistry:** For prospective medical students.
2 lectures (both terms) and 3 laboratory hours (one term) a week: 2½ credits.

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

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; 4 credits.

303. **Organic Chemistry:** For Honors Biology students.
2 lectures, 3 laboratory hours a week: 3 credits.
Prerequisite: Chemistry 10.

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: 4 credits.
Prerequisites: Chemistry 10 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: 6 credits.
Prerequisites: Chemistry 200 and either Chemistry 251 or Physics 251.

406. **Biochemistry:** For Honors Biology students.
2 lectures, 3 laboratory hours a week: 3 credits.
Prerequisites: Chemistry 200, 303.

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

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

454. **Physical Chemistry:** Thermodynamics and Kinetic Theory of Matter. 3 lectures, 3 laboratory hours a week: 4½ credits.

Prerequisite: Chemistry 354.

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

458. **Seminar:** Presentation of papers on topics selected from the current chemical journals, dealing with the more recent and fundamental developments of the science; prescribed for fourth year Honors Chemistry students and desirable for all students majoring in Chemistry. 1 credit.

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: 3 credits.

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

551. **Inorganic** (Gunton and Watson).

552. **Analytical** (Gunton and Sivertz).

553. **Organic** (Burns, Pattison, Engel).

554. **Physical** (Sivertz and Hunten).

The courses above comprise the fundamental aspects of Chemistry on which major emphasis will be placed. Tutorial and lecture methods of study will be used.

550. **Colloid and Surface Chemistry** (Hunten).

556. **Biochemistry** (Watson).

557. **Electrochemistry** (Hunten).

558. **Seminar:** Staff.

559. **Research and Thesis Work:** Staff.

CLASSICS

University College

Professors: JOHN D. RALPH, Ph.D., Head of the Department;
R. E. K. PEMBERTON, M.A.

Assumption College

Associate Professor: REV. J. HUSSEY, M. A.

St. Peter's College

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

Ursuline College

Associate Professor: MOTHER M. ST. MICHAEL, M.A., Ph.D.
Instructor: MOTHER M. ST. CATHERINE, B.A.

Waterloo College

Professor: A. E. RAYMOND, Ph.D.
Lecturer: REV. DELTON J. GLEBE, B.A.

Huron College

Professor: REV. R. K. HARRISON, B.A., B.D., M.Th.
Instructor: REV. M. B. PARKER, M.A., B.D.

GREEK

1. **Elementary Greek:** A preparatory course leading up to the standard of Matriculation (omitting Homer) for those who wish to begin the study of Greek after entering the University.

In order that this course may count for credit towards a degree, Greek must be studied for three years. Arts students, on completing this course, will take Greek 10 and 20. Theological students, on completing this course, will take Greek 25x and 35x. (See Huron College courses.)

3 hours a week: 3 credits.

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

Prerequisites: Grade XII Greek or Greek 1.

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

3 hours a week: 3 credits.

Prerequisites: Greek 10 or Grade XIII Greek.

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

1 hour a week: 1 credit.

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

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

40. Aeschylus, *Prometheus Vinctus;* Euripides, *Medea;* Sophocles, *Oedipus Tyrannus, Antigone;* lectures on the theatre and the development of the drama; composition, sight translation.

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

Honors Courses

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

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

230. Plato, *Apology;* Aristophanes, *Clouds, Wasps;* public, social and political life of Athens in the fifth century, B.C.
Prerequisite: Group 4, page 28. 2 hours a week: 2 credits.

250. **The Greek Epic:** Selections from the *Iliad and the Odyssey.*
Prerequisite: Group 4, page 28. 1 hour a week: 1 credit.

251. **Syntax and Composition:**
Prerequisite: Group 4, page 28. 1 hour a week: 1 credit.

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

340. **Greek Tragedy:** Sophocles, *Oedipus Tyrannus, Antigone;* Aeschylus *Prometheus Vinctus;* Euripides, *Medea.* Lectures on the theatre and the drama. 2 hours a week: 2 credits.
Prerequisite: Greek 230.

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

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

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

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

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

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

453. **Reading Course in Greek:** To be taken with Latin 453.
3 hours a week, one term: 1½ credits.
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: 2 credits.

LATIN

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

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

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

Prerequisite: Latin 20.

39. **Latin Literature in English Translation:** A survey of Latin Literature for those without a reading knowledge of Latin.
1 hour a week: 1 credit.

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

Prerequisite: Latin 30.

Honors Courses

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

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

230. Catullus; Virgil, selections from the *Bucolics* and *Georgics;* selections from Horace (*Odes*) and the Elegiac Poets.
Prerequisite: Group 3 or 4, page 28. 2 hours a week: 2 credits.

250. Cicero, *De Amicitia.*
Prerequisite: Group 3 or 4, page 28.

251. **Syntax and Composition:** 2 hours a week: 2 credits.

Prerequisite: Group 3 or 4, page 28.

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

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

Prerequisite: Latin 230.

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

Prerequisites: Latin 230, 250.

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

Prerequisite: Latin 251.

352. **Roman Comedy,** with an introduction to historical Latin Grammar. 1 hour a week: 1 credit.

Prerequisites: Latin 230, 250.

450. **Roman Historians,** with special reference to Livy and Tacitus.
2 hours a week: 2 credits

Prerequisites: Latin 340, 350, 352.

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

Prerequisite: Latin 351.

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

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

453. **Reading Course in Latin:** to be taken with Greek 453.
Prerequisites: Latin 340, 350, 352.
3 hours a week, one term: 1½ credits.

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

Graduate Courses

Greek 520. *Bucolici Graeci* (Ralph).
Greek 530. **Thucydides** (Ralph).
Latin 520. **Lucretius,** *De Rerum Natura* (Pemberton).

ECONOMIC and POLITICAL SCIENCE

University College

Professors: M. K. INMAN, Ph.D., Head of the Department; W. B. HARVEY, LL.B., Ph.D.; E. E. REILLY, B.S.A., M.S., F.R.E.S.
Associate Professors: C. J. BITTNER, Ph.D.; DAVID IVOR, Ph.D.; E. G. PLEVA, Ph.D.
Lecturers: O. W. ANDERSON, Ph.D.; ALLAN G. BOGUE, Ph.D., (Assistant Librarian); E. M. SHORTT, B.A., LL.B.; E. J. R. WRIGHT, B.A.

Assumption College

Professor: G. R. HORNE, M.A.
Associate Professor: REV. L. C. J. QUINLAN, M.A.
Assistant Professor: W. G. PHILLIPS, M.A.
Instructors: IRENE V. PAGE, B.A.; MORRIS B. SEIDELMAN, M.S., LL.B.; J. W. WHITESIDE, B.A.

Ursuline College

Professor: MOTHER M. ST. MICHAEL, M.A., Ph.D.
Associate Professor: MOTHER M. ROSANNA, M.A.
Instructors: MOTHER IGNATIUS LOYOLA, B.A.; REV. T. L. MCMANUS, B.A., J.C.L.; MOTHER M. ST. MICHAEL, M.A., Ph.L.

Waterloo College

Professor of Political Science: A. O. POTTER, Ph.D.
Assistant Professor: *H. O. J. OVERGAARD, M.S.
Instructor: H. H. BINHAMMER, B.A.
Lecturers: JOHN CARLISLE, B.A.; G. F. DURST, M.A., B.D.

Requirements for an Honors degree in Economics: for admission and standards see course-outline on page 37.

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

*On leave, 1951-52.

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

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

32. **Political Science:** (a) The state, its origin, form and activities, and the working of governments, particularly those of the United Kingdom, Canada, the United States, France and Switzerland.

(b) A critical study of Socialism, Communism and Fascism.

3 hours a week: 3 credits.

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

Part 2. The development of short run economics, contemporary monetary theories and policies; international monetary problems.

3 hours a week: 3 credits.

39. **Social Security:** History and analysis of the Social Security programs in Canada, the United States and Great Britain.

2 hours a week: 2 credits.

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

3 hours a week: 1½ credits.

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

3 hours a week: 1½ credits.

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

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

49. **Social Pathology:** The study of personality disorganization and maladjustment from the point of view of sociology; the problems of poverty, physical and mental deficiency, alcoholism, insanity, delinquency and crime; social change and social disorganization, the pathology of social groups and classes, the pathology of economic and cultural relations.

3 hours a week: 3 credits.

Honors Courses

The following Honor courses are identical with the general courses indicated (for descriptions see preceding page), except that additional assignments will be required: 228 (28), 229 (29), 233 (33), 332 (32), 339a (39a), 342a (42a), 342b (42b), 346 (46), 348 (48), 449 (49).

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: 2 credits.

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

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

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

353. **Corporation Finance and Investments:** (a) The promotion and financing of business enterprises, financial controls and dividend policies. (b) The principles of investments, individual and institutional; social importance. 3 hours a week: 3 credits.

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. 2 hours a week: 2 credits.

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: 3 credits.

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: 3 credits.

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

453. **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: 3 credits.

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: 2 credits.

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

3 hours a week: 1½ credits.

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

Graduate Courses

537. **Advanced Economic History** (Bogue).
546. **Advanced Labour Economics** (Bittner).
550. **Advanced Economic Theory** (Inman).
551. **Advanced International Economics** (Harvey).
552. **Advanced Political Theory** (Harvey).
553. **Advanced Monetary and Fiscal Policy** (Reilly).
560. **Advanced Economic Theory (non-Monetary)** (Ivor).
578. **Advanced Sociological Theories and Methods** (Bittner).
590. **Seminar. Current Economic Problems.**

ENGLISH

University College

Professor: C. F. KLINCK, Ph.D., Head of the Department.
Associate Professor: M. H. M. MACKINNON, Ph.D.
Assistant Professors: G. E. BUCKLEY, M.A.; A. B. CONRON, Ph.D.; J. R. Y. MCRAE, M.A.
Lecturers: W. E. D. ATKINSON, B.A.; P. J. AZIZ, M.F.A.; FRANK STILING, Ph.D. (Vice-Principal of University College).
Instructors: J. W. GRAHAM, M.A; I. A. MCDONALD, M.A.; JOHN REIDY, M.A.; R. G. WOODMAN, M.A.
Part-time Instructors: DORIS LIDDICOATT, M.A.; J. R. SCOTT, B.A.
Graduate Assistant: BARBARA PEARCE, B.A.

Assumption College

Professor: REV. E. C. LEBEL, M.A.
Associate Professors: REV. C. P. J. CROWLEY, Ph.D.; REV. J. STANLEY MURPHY, M.A.
Assistant Professors: REV. E. J. HARTMANN, M.A.; SISTER ALOYSIUS MARY, M.A.
Lecturer: REV. C. E. PAPPERT, M.A.
Instructor: LORNE G. FOX, B.A.

St. Peter's College

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

Ursuline College

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

Waterloo College

Professor: FLORA ROY, M.A.
Assistant Professor: J. M. CLARK, M.A.
Lecturers: MRS. URITH T. SEYMOUR, A.T.C.M., L.C.S.E.; BAZIL KUGLIN, A.O.C.A.

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

19. **Public Speaking:** 1 hour a week: 1 credit.

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: 3 credits.

29. **Speech Fundamentals and Voice:** 2 hours a week: 2 credits.

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: 3 credits.

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

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

36. **Modern British and American Drama:** (for students who have not taken English 33M or 35). 3 hours a week: 3 credits.

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

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

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

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

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

Fine Arts Lectures: A survey of the Fine Arts in relation to the three systems of culture: (1) Ideational, (2) Sensate, (3) Idealistic, in Ancient and Western European Civilizations. An historical, anthropological and sociological approach to this subject, to determine in what proportion artistic expression in the Fine Arts was permitted under the three cultural systems, and their contributions to Western European Civilization as a whole.

Honors Courses

Comprehensive examinations will be held at the end of the fourth year of all courses in English Honors. See page 15.

250. **Restoration and Eighteenth Century Literature (1662 to 1780).**
2 hours a week: 2 credits.

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

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

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

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

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

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

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: 2 credits.

441. **Creative Writing:** 1 hour a week: 1 credit.

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

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

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

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: 2 credits.

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

Graduate Courses

500. **Thesis:** topic, instructor, and credit value to be approved by the Head of the Department.

501. **Tutorial:** Instructors to be assigned.

513. **Advanced History of the English Language** (Reidy).

523. **Old English Language and Literature** (Reidy).

533. **Middle English Language and Literature** (Reidy).

561. **Literature of the Renaissance (non-dramatic)** (MacKinnon).

566. **Renaissance Drama** (Atkinson).

580. **The Eighteenth Century** (Conron).

585. **The Romantic Period** (Stiling).

591. **The Victorian Period.**

595. **American Literature** (Klinck).

597. **Literature of Canada (English)** (Klinck).

599. **Recent Literature** (Graham).

FRENCH (See Romance Languages)

GEOGRAPHY

University College

Professor: E. G. PLEVA, Ph.D., Head of the Department.

Lecturer: S. WEYL, M.A.

Instructors: ALLAN J. BARKER, B.A.; R. W. PACKER, M.A., F.R.G.S.

Teaching Fellows: W. J. BLOWES, B.A.; A. T. CARNAHAN, B.A.; G. A. CONNOR, B.A.; W. D. DRIVER, B.A.; S. INCH, B.A.; L. LAINE, B.A.; W. A. LOGAN, B.A.; W. K. SETTER, M.Sc.

Assumption College

Instructor: WILLIAM KENNEDY, B.A.

Waterloo College

Lecturers: A. D. BOGGS, B.A.; D. MACPHERSON, B.A.

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: 3 credits.

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

30. **Advanced Physical and Cultural Geography:** Studies of the environmental factors and their interrelationships with special reference to southwestern Ontario.
2 lectures and 2 hours practical work a week: 3 credits.
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: 3 credits.
Prerequisite: Geography 20, 29, or equivalent.

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

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

Honors Courses

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

Graduate Courses

Note: In 1952-53, courses 500, 501, 502, 541, and 550 will be given.

500. Seminar in Social Geography.
501. Seminar in Physical Geography.
502. Seminar in Teaching of Geography.
510. Regional Geography of Southwestern Ontario.
511. Regional Geography of North America.
512. Regional Geography of the U.S.S.R.
520. The Nature of Geography.
521. Historical Geography.
522. Political Geography of Canadian-American Relations.
530. Geographic Aspects of Regional and Urban Planning.
531. Land Classification for Land-Use Planning.
532. Geography of Soils.
541. Advanced Cartography.
542. Advanced Military Geography.
543. Advanced Studies in World Resources.
550. Research in Geography.

GEOLOGY

University College

Professor: G. H. REAVELY, M.A., D.I.C., Head of the Department.
Associate Professor: G. G. SUFFEL, M.Sc., Ph.D.
Assistant Professor: A. DREIMANIS, M.Nat.Sc.
Instructor: E. T. TOZER, B.A.
Demonstrators: R. S. AXFORD, B.Sc.; R. S. COOK, B.Sc.; K. S. KNOX, B.Sc.

Assumption College

Instructor: REV. A. J. WEILER, B.A.

Waterloo College

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

10. **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 and 2 laboratory hours a week: 3 credits.

11. **Geological Science:** A survey of the Geological Sciences; the relation of Geology to the other sciences, and its economic significance, with emphasis on topics of local interest.

2 lectures and 1 demonstration a week: 3 credits.

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: 3 credits.

252. **Petrography:** 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: 1½ credits.

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

263. **Invertebrate Palaeontology and Principles of Stratigraphy:** An introduction to the morphology and classification of fossil invertebrates; the principles of Stratigraphy illustrated by the Palaeozoic Section of Eastern Canada. 2 lectures, 2 laboratory hours a week: 3 credits.

351. **Optical and Descriptive Mineralogy:** The principles of optics as applied to the identification of minerals; the study of about 150 rock-forming mineral species, with practice on their identification in hand specimen and in thin section. 2 lectures, 3 laboratory hours a week: 3½ credits.

354. **Origin and Formation of Mineral Deposits:** The origin of mineral deposits and a study of the principal processes involved in their formation, with a brief mention of prominent examples. Laboratory time will be devoted to 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: 2 credits.

356. **Surveying:** The principles of simple plane surveying. Stress is laid on the use of the plane-table. The principles of drafting are included and practice in map layout is given. Offered in alternate years, next in 1952-3. 1 lecture, 3 laboratory hours a week: 2½ credits.

363. **Stratigraphical Palaeontology and Stratigraphy of North America:** The development of North America and a study of the successive faunas, including micro faunas. Laboratory work will include field trips.
2 lectures, 2 laboratory hours a week: 3 credits.

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: 2 credits.

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: 3½ credits.

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: 3 credits.

455. **Structural Geology:** Primary and induced structures in igneous, sedimentary and metamorphic rocks; the physical properties of rocks and the effects of stress application; the 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 on maps. Offered in alternate years, next in 1953-4.
2 lectures and 2 laboratory hours a week: 3 credits.

457. **History of Geology:** Selected readings and discussions pertaining to the history and development of the various geological sciences. Essays will be required. Class will meet by arrangement. ½ credit.

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. Where summer field work has not been undertaken, a research problem will be arranged. 3 credits.

460. **Seminar:** Presentation and discussion of papers on various geological subjects, particularly those of current interest.
2 hours a week: 1½ credits.

463. **Advanced Morphological Palaeontology:** An advanced treatment of fossil invertebrates. 1 lecture, 3 laboratory hours a week: 2½ credits.

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 hours a week: 2 credits.

467. **Glacial and Pleistocene Geology:** Glaciers and their geologic work; glacial and extraglacial deposits, their structure and texture and landscape forms; Pleistocene stratigraphy with emphasis on eastern North America and development of Glacial Lakes; economic aspect of Pleistocene deposits. Laboratory work will consist of field trips, studies of collected materials, map exercises, readings and discussion of reference papers.
1 lecture, 2 laboratory hours a week: 2 credits.

Courses Leading to M.Sc. Degree

The following courses are designed to provide graduate study in Pleistocene Geology. Not all of them will necessarily be given in 1952-53.

532. **Sedimentation** (Dreimanis).
536. **Hydrogeology** (Dreimanis).
552. **Advanced Sedimentary Petrology** (Reavely).
567. **Advanced Glacial and Pleistocene Geology** (Dreimanis).
569. **Research and Thesis** (Staff).
570. **Graduate Seminar** (Staff).

GERMAN LANGUAGE AND LITERATURE

University College

Professor: H. K. KALBFLEISCH, A.M., Head of the Department.

Lecturers: R. A. ALLEN, Ph.D. (University Vice-President); A. ROSE', B.A.; S. WEYL, M.A.

Assumption College

Professor: REV. A. J. WEILER, B.A.

Instructor: BARBARA H. BIRCH, M.A.

Ursuline College

Instructors: MOTHER M. FELICITAS; MOTHER MARY AGNES, M.A.

Waterloo College

Lecturers: OTTO W. HEICK, M.A., D.D., Ph.D.; ILSE AKSIM STEWART, M.A.; F. C. PETERS, B.A., B.D., M.Sc.

Instructor: KURT NABERT, B.A.

General Courses

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

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

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

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

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

20. **Advanced German:** Translation from modern literary German, grammar, dictation, conversation. 3 hours a week: 3 credits.

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

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

Prerequisite: German 20.

31. **Conversation, Dictation, Grammar.**

Prerequisite: German 20. 1 hour a week: 1 credit.

35. **Intermediate Scientific German:** The reading of scientific works in German and a review of basic grammatical constructions as an aid to reading. Prescribed for third year honors science students. 2 hours a week: 2 credits.

Prerequisite: German 5 or Grade XII (Middle School) German.

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

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

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

Honors Courses

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

290. **German Romanticism.** 3 hours a week: 3 credits.
Prerequisite: Junior Group 4, see page 28.

291. **Grammar, Conversation, Composition, Phonetics.**
2 hours a week: 2 credits.
Prerequisite: Junior Group 4, see page 28.

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

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

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

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

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

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

Graduate Courses

Note: Not more than one graduate course will be given by any instructor in any year.

533. **Middle High German Literature** (Allen).

585. **Lessing and his Age** (Kalbfleisch).

586. **Goethe's Life and Works** (Weyl).

587. **The Life and Works of Friedrich Schiller** (Kalbfleisch).

592. **The Drama of the German Romantic Period** (Allen).

595. **The Modern German Novel** (Weyl).

598. **Modern German Drama, 1889 to the present** (Allen).

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, first term.

Text-book: Diehl, *Elements of Healthful Living.*

HEBREW

University College

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

Waterloo College

Lecturer: REV. L. H. SCHAUS, M.A., B.D.

The object of the course in Hebrew is chiefly to provide instruction for theological students to enable them to read the Hebrew Bible with a thorough knowledge of grammar, pointing and a general acquaintance with the Old Testament literature as a foundation for more advanced study of Semitic languages; but any student desiring a fuller acquaintance with the Old Testament is at liberty to choose the Hebrew options.

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

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

10. Grammar; translation of *Genesis* 37, 40-45; *Exodus* 1-4; *I Kings* 17-19; *II Kings* 2, 17. 3 hours a week: 3 credits.

Prerequisite: Hebrew 1.

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

Prerequisite: Hebrew 10.

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

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

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

Prerequisite: Hebrew 30.

HISTORY

University College

Professor: A. G. DORLAND, Ph.D., F.R.S.C., Head of the Department.
Associate Professors: W. BALDERSTON, Ph.D.; H. M. THOMAS, Ph.D.
Lecturers: A. G. BOGUE, Ph.D. (Assistant Librarian); S. F. MAINE, B.D., Ph.D. (Director of the Summer School and Extension Department); J. J. TALMAN, Ph.D., F.R.S.C. (University Librarian).
Teaching Fellow: R. A. NAYLOR, B.A.

Assumption College

Professor: REV. N. J. MURPHY, M.A.
Associate Professors: REV. D. T. MULVIHILL, Ph.D.; MOST REV. C. N. NELLIGAN, B.A., D.D.

Huron College

Professor: REV. T. R. MILLMAN, B.D., Ph.D.

Ursuline College

Professor: MOTHER M. MERCEDES, M.A.

Waterloo College

Professor: ALEXANDER POTTER, Ph.D.
Lecturer: G. F. DURST, M.A., B.D.

14. **History of the Americas:** A study of the rise and growth of the various American nations and their relations with one another, against their respective geographical, economic and cultural backgrounds.
3 hours a week: 3 credits.

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

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 replaces History 21 and 45a, 46b and may not be taken by students who have credit for either History 20 or 36.
3 hours a week: 3 credits.

31. **History of Canada:** Lectures, prescribed reading and essays. A survey from the beginning of the French Regime to the present.
3 hours a week: 3 credits.

33a. **The Development of Self-Government in the British Empire-Commonwealth:** Lectures, prescribed reading and reports. The lectures will be grouped under the following heads: the breakdown of the Old Colonial System and Policy; British Colonial Policy at the beginning of the Nineteenth Century; the Colonial Reformers and the application of their ideas to Canada and to Australasia; the evolution of self-government in Canada, Australasia, South Africa and India; the growth of colonial nationalism and autonomy, culminating in the achievement of Dominion status; the constitutions of the Dominions and of the Republics of Ireland and India. 3 hours a week: 1½ credits.

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

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

44. **History of the United States:** The colonial period, the revolution, making the constitution, westward development, the slavery struggle, the Civil War, reconstruction and later political history to the present day; the character of federal and state governments.
2 hours a week: 2 credits.

Honors Courses

236. **Modern History (1555-1933):** Honors students will be required to do special reading and reports in this course.
3 lectures and a seminar a week: 3 credits.
Prerequisite: Junior Group 3, page 28.

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

331. **History of Canada:** A survey from the beginning of the French Regime to the present. 3 lectures and a seminar a week: 3 credits.

333a. **The Development of Self-Government in the British Empire-Commonwealth:** For details see History 33a. Honors students will be required to do special reading and reports in this course.
3 hours a week, lectures and seminars: 1½ credits.

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

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

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

452. **History of European Society and Institutions:** In the first term Continental Europe to 1648 will be studied. In the second term the course deals primarily with the social and constitutional history of England to 1660 and emphasizes the use of documents.
3 hours a week, lectures and seminars: 3 credits.

455. **British Political Parties:** The rise of the Tory and Whig Parties; the Revolution of 1688; the Tory Reaction in the reign of Anne; the "Reign of the Whigs", the experiment in personal government of George III; the disruption of the old Whig Party; the new Tory Party under Pitt; the growth of Parliamentary Reform and Free Trade; Peel and Liberal Conservatism; Disraeli and Democratic Toryism; Gladstone and Modern Liberalism; the Irish Parliamentary Party; the Unionist Party; the Labor-Socialist Party. 3 hours a week, lectures and seminars: 3 credits.

Graduate Courses

554. **Selected Problems in Canadian and United States History:** Seminar course (Talman and Thomas).

564. **The Colonial Period of the Americas** (Dorland).

574. **Background and Development of Canadian Military History** (Thomas). This course will be available only to Canadian officers or others who have had or are completing officer training.

575. **The Philosophy of History** (Balderston).

HOME ECONOMICS

Ursuline College

Professor: MOTHER M. DOMINICA, M.A., Head of the Department.
Associate Professor: MOTHER M. ST. DOMINIC, B.Sc.
Instructors: ISABEL PARK, M.A.; MOTHER M. VICTORIA, B. Sc.

Alma College

Instructor: JOY ROSS.

Assumption College

Instructor: SISTER M. ISIDORE, B.A.

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: 2 credits.

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

26x. **Physiology:** A lecture course dealing with the structure and functions of the various parts of the human body.
2 hours a week: 1 credit.

30x. **Clothing:** A study of textiles; problems in clothing construction.
1 lecture, 3 laboratory hours a week: 2½ credits.

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

32x. **Foods:** The principles of cookery and food preparation and the scientific theory underlying them.
1 lecture, 2 laboratory hours a week: 2½ credits.

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

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: 1 credit.

40x. **Clothing and Designing:** Art of costume and personal appearance; history of costume; pattern designing; care of fabrics; problems in clothing construction. 2 lectures, 3 laboratory hours a week: 3½ credits.
Prerequisite: Home Economics 30x.

41x. **Advanced Nutrition:** Nutritional needs during infancy; the preschool 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: 2½ credits.

42x. **Foods:** Food science and experimental cookery.
1 lecture, 3 laboratory hours a week: 2½ credits.
Prerequisite: Home Economics 32x.

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

46x. **Demonstration Techniques:** Meal service.
1 afternoon a week in second term: 1½ credits.

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

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: 3 credits.
Prerequisite: Home Economics 32x.

ITALIAN

(See Romance Languages)

JOURNALISM

University College

Professor: GEORGE W. MCCRACKEN, B.A., Head of the Department.
Assistant Professors: J. L. WILD, B.A.; MRS. J. J. DINGMAN, M.A.
Sessional Lecturers: R. J. CHURCHILL; JOHN K. ELLIOTT, B.A.; ARTHUR R. FORD, B.A., LL.D.; E. H. SLATER, B.A.; J. J. TALMAN, Ph.D., F.R.S.C. (University Librarian).
Assistants: JOHN P. GORE, W. H. HOGG, RICHARD NEWMAN, ROBERT TURNBULL.

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

20. **Introduction to Journalism:** A survey of the daily, weekly and magazine press and news agencies of Canada and the United States; freedom, responsibility and political role of the Press; elementary news and feature writing. 3 hours a week: 3 credits.

Honors Courses

351. **News Gathering and Writing:** The forms and style of journalistic prose; reporting methods; news evaluation; news sources; reporting assignments and copy critiques. 6 hours a week: 4 credits.

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

369. **Journalism Law:** Rights of access to news; legal guarantees and limits of freedom of the press; libel; contempt of court; copyright.
1 hour a week: 1 credit.

372. **Civics and the Press:** Municipal institutions as news sources; direct study of municipal government with emphasis on the executive branch; the Ontario Municipal Act and the Assessment Act; lectures, field hours, news and feature assignments. 3 hours a week: 2 credits.

451. **Advanced News Writing:** Lectures and group discussions on problems of news gathering and writing; interpretive reporting; assignments and copy critiques.
1 lecture, 4 laboratory hours a week: 3 credits.

455. **Newspaper Production:** Newsroom organization; copy-reading; editing; page makeup; a study of the mechanical phases of newspaper production; emphasis is on practical work in copy preparation.
1 lecture, 4 laboratory hours a week: 3 credits.

462. **Editorial and Critical Writing:** Editorial policy; the editorial and the background article; research methods; editorial page features; the signed column; critical standards; music, book and theatre reviewing.
1 lecture, 2 field hours a week: 1½ credits.

476. **Radio News:** Comparative study of newspaper and radio writing; writing for the ear; preparation of newscasts; documentary news broadcasts; radio interviewing; the actuality broadcast.
1 lecture, 4 laboratory hours a week: 3 credits.

478. **Pictorial Journalism:** News photography and picture editing; the feature picture; the photo-story; magazine illustration; layout; engraving processes. 1 lecture, 2 laboratory hours a week: 2 credits.

481. **Feature and Magazine Article Writing:** Feature writing for newspapers; magazine article writing, including study of marketing and manuscript preparation. 1 lecture, 2 laboratory hours a week: 2 credits.

490. **National and International Affairs:** A study from the viewpoint of the telegraph editor and the editorial writer; students will be required to maintain, through systematic research and reading, sufficient knowledge of current national and international events and their background to handle wire copy in perspective. 1 lecture, 2 laboratory hours a week: 2 credits.

499. **Seminars:** Arranged annually to give small groups a brief introduction to specialized journalistic fields. 1 or 2 credits.

For **LATIN** see Classics

LAW

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

500. **Domestic Relations:** Husband and wife; parent and child; infants.

502. **Medical Jurisprudence.**

504. **Thesis:** See page 21.

505. **Comparative Constitutional Law and History:** The Law, customs and conventions, and history of the Constitution. The problem of distribution of legislative power in the Dominion of Canada and the Commonwealth Nations is not to be covered.

506. **Comparative Civil Law:** A study of the historical development of Roman Law, the French Civil Code 1804 (the Napoleonic Code) and portions of the Quebec Civil Code.

For a complete list of required reading, text-books and references, consult the Registrar's Office, or the Dean of the Faculty of Graduate Studies.

LIBRARY SCIENCE

University College

Lecturers: CATHERINE CAMPBELL, B.A.; ELEANOR LUCY, B.A., M.S.; CAROLINE MACKENZIE, B.A., B.L.S.; ELLA MODERWELL, B.A.; JAMES J. TALMAN, Ph.D. (University Librarian); MRS. LIISA WEEKES, B.A., B.L.S.

Assumption College

Lecturer: REV. F. DE S. FLOOD, M.A., B.L.S.

Instructor: MARYELLEN MCAULIFFE, B.A.

St. Peter's College

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

Ursuline College

Lecturer: MOTHER M. ROSANNA, M.A.

Waterloo College

Lecturer: DORIS EILEEN LEWIS (MRS. M. E.), B.A.

10. **The Use of Books and Libraries:** Lectures and exercises on the use and arrangement of the card catalogue, standard reference books, bibliography, periodicals and periodical indexes. Prescribed for all students in the first year. 1 hour a week: ½ credit.

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

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

MATHEMATICS AND ASTRONOMY

University College

Professors: G. R. MAGEE, M.S., Ph.D., Head of the Department; R. H. COLE, Ph.D.

Lecturers: G. P. HENDERSON, M.A., Ph.D.; H. R. KINGSTON, Ph.D., F.R.A.S. (Principal of University College, Dean of Arts and Science).

Assumption College

Assistant Professor: REV. W. F. NIGH, M.A.

Instructors: REV. D. V. BURNS, B.A.; E. J. RENAUD, B.A.

Ursuline College

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

Waterloo College

Instructor: B. MARION AXFORD, B.A.

Lecturer: C. M. CARMICHAEL, M.Sc.

10a. **Algebra:** Functions and their graphs, quadratic equations, ratio and proportion, variation, progressions, interest and annuities, permutations and combinations, binomial theorem. Not offered in University College in 1952-53. To be replaced by Mathematics 11, first term, except in the case of Physical, Health, and Recreation Education students who are required to take Grade XIII Algebra and Geometry or the whole of Mathematics 11. 3 hours a week: 1½ credits.

Prerequisites: Grade XII Mathematics.

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

11. **College Mathematics:** First term, the complex number system, linear and quadratic equations, significant figures and scientific notation, logarithms, algebraic functions, exponential and logarithmic functions, progressions, mathematics of investment, brief introduction to statistics; second term, plane analytic geometry, elementary procedures of calculus, social significance of mathematics. 3 hours a week: 3 credits.

Prerequisite: Grade XII Mathematics.

Text-book: Cooley, Gans, Kline, Wahlert, *Introduction to Mathematics, Second Edition* (Houghton-Mifflin).

12b. **Analytic Geometry:** The point, straight line, circle, parabola, ellipse, with an introduction to the hyperbola.

Prerequisite: Grade XII Mathematics. 3 hours a week: 1½ credits.

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

18a. **Plane Trigonometry:** Chapters I to X in the text. Not offered in University College in 1952-53. 3 hours a week: 1½ credits.

Prerequisite: Grade XII Mathematics.

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

20T. **Business Mathematics:** Approximate numbers, significant digits, contracted methods of multiplication and division, simple interest and dis-

count, arithmetic progressions and short-term instalment buying, geometric progressions and compound interest, annuities. Summer School only.

5 hours a week: 1 credit.

Text-book: Richtmeyer and Foust, *Business Mathematics* (McGraw-Hill).

23b. **Mathematics of Investment:** Interest and discount, short-term instalment buying, annuities-certain, bonds and bond prices, capitalized cost, life annuities, life insurance. 3 hours a week: 1½ credits.

Prerequisite: Grade XII Mathematics.

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

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

Prerequisites: Mathematics 10, 12, 18, or Grade XIII Algebra, Geometry, and Trigonometry.

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

29a. **Descriptive Astronomy:** A survey course (not mathematical): the constellations; shape, size and motions of the earth; the moon; eclipses; time; the solar system; the planets; comets and meteors; the sun; evolution of solar system; the stellar universe. Evening observations; lectures illustrated with lantern slides and models. The 10-inch refractor of the Hume Cronyn Memorial Observatory will be available on suitable occasions.

2 hours a week: 1 credit.

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

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

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

Honors Courses

250. **Algebra:** Determinants and matrices, complex numbers, theory of equations, indeterminate equations of first degree.

2 hours a week: 2 credits.

Prerequisite: Mathematics of Junior Group 1 (page 27).

Text-book: Uspensky, *Theory of Equations* (McGraw-Hill).

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

2 hours a week, first term;
3 hours a week, second term: 2½ credits.

Prerequisite: Mathematics of Junior Group 1 (page 27).

254. **Calculus and Differential Equations:**

3 hours a week: 3 credits.

Prerequisite: Mathematics of Junior Group 1 (page 27).

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

351a. **Synthetic Geometry:** Geometry of the triangle and circle, forming a natural sequel to the classical plane geometry of the secondary schools.

2 hours a week: 1 credit.

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

354. **Advanced Calculus:** Selected topics including partial differential equations. 3 hours a week: 3 credits.

Text-book: Sokolnikoff, *Advanced Calculus* (McGraw-Hill).

355. **Probability and Statistics.** 3 hours a week: 3 credits.

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

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

359. **Astronomy:** First term, descriptive; second term, mathematical.

Text-books: First term: Duncan, *Astronomy* (Harper).
Second term: Hosmer and Robbins, *Practical Astronomy* (Wiley).

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

452. **Plane Analytic Projective Geometry:** 2 hours a week: 2 credits.

Text-book: Maxwell, *Methods of Plane Projective Geometry* (Cambridge).

453. **Investment and Finite Differences:** First term: interest, discount, annuities-certain, bonds, capitalised cost. Second term: fundamental difference forms and interpolation formulae, divided differences, central differences, mechanical quadratures, integration, Euler-Maclaurin's, Woolhouse's and Lubbock's Formulae. 2 hours a week: 2 credits.

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

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

Text-book: Churchill, *Introduction to Complex Variables and Applications* (McGraw-Hill).

463. **Life Contingencies:** 2 hours a week: 2 credits.

Text-books: MacKenzie and Sheppard, *Theory of Life Contingencies* (U. of Toronto Press).
Spurgeon, *Life Contingencies* (Society of Actuaries).

467. **History and Foundations of Mathematics:** Lecture and seminar course. 2 hours a week: 2 credits.

Graduate Courses

A selection from the following courses will be offered each year.

550. **Modern Algebra** (Cole).

551. **Topology** (Henderson).

552. **Metric Differential Geometry** (Magee).

554. **Differential Equations** (Henderson).

555. **Statistics** (Cole).

556. **Theory of Functions** (Cole).

562. **Projective Differential Geometry** (Magee).

564. **Calculus of Variations** (Henderson).

MUSIC

University College

Professor: HARVEY ROBB, Head of the Department.

Lecturers: G. E. COLE, Mus. Bac., Mus. M.; EDWARD DALY, A. Mus., Mus. Bac.; CLIFFORD POOLE; MARGARET PARSONS POOLE; ALFRED ROSE', B.A. (Professor in Music Teachers College).

Waterloo College

Lecturer: REV. ULRICH LEUPOLD, Ph.D.

Assumption College

Instructors: VIOLET WEBB LEACH, L.C.M., C. of M., M.A.; CARLO CARTAINO, B.S.E., B.M.

MUSIC OPTIONS

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

The prerequisites of the courses are evidence satisfactory to the Director of Music of elementary standing in applied music (such as proficiency on a recognized instrument or in singing) or in theoretical knowledge. Subject to the standard admission regulations on page 12, no student will receive credit in the courses for standing already obtained prior to entering the University; he must advance to new work to earn additional optional credits in Music.

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

10. **First Course:** 3 credits.

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

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

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

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

20. **Second Course:** 3 credits.

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

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

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

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

Prerequisite: Music 10 or equivalent.

30. **Third Course:** 3 credits.

(1) (a) History: the basis of music in the Church; the evolution of Polyphonic music; the advent of secularism; the Elizabethans; music in Shakespeare and a survey of English music to 1700.

(b) Form: continuance of Music 20 (1) (b).

(2) Theory: strict and free counterpoint in two parts; contrapuntal harmony in two, three and four parts; simple modulation; secondary sevenths; suspensions; some chromatic chords; writing and arranging for voices and instruments including piano, string quartet and a limited number of solo instruments.

Besides class lectures, the course will include a compulsory weekly period of directed listening and study with assignments.

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

Prerequisite: Music 20 or the equivalent.

For the Music courses offered in Music Teachers College, see page 114.

PHILOSOPHY

University College

Professor: A. H. JOHNSON, Ph.D., Head of the Department.
Assistant Professor: A. L. HILLIARD, Ph.D.
Instructors: HAROLD J. JOHNSON, B.A.; NEIL L. WILSON, Ph.D.
Teaching Fellow: PERRY R. ROBINSON, B.A.
Student Assistant: C. J. WILLIAMS, B.A.

Assumption College

Professor: REV. E. C. GARVEY, Ph.D.
Visiting Professor: REV. HENRI POUILLON, Ph.D.
Associate Professors: W. J. DWYER, Ph.D.; REV. P. J. M. SWAN, Ph.D.; PATRICK FLOOD, M.A.

St. Peter's College and Ursuline College

Professor: REV. L. A. WEMPLE, Ph.D.
Associate Professors: REV. A. J. DURAND, M.A., Ph.D.; MOTHER M. ST. MICHAEL, Ph.D.
Instructors: REV. L. J. FLYNN, S.T.D., S.S.L.; REV. A. F. LOEBACH, B.A., J. C. L.; REV. W. J. RING, B.A., Ph.L.; *REV. M. J. WILDGEN, B.A., Ph.L.

Waterloo College

Lecturers: REV. A. R. CRAGG, M.A.; REV. O. W. HEICK, Ph.D.

Huron College

Professor: RIGHT REVEREND W. T. HALLAM, M.A., D.D., LL.D.

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

20. **Philosophy and Human Problems:** This course is concerned with the following types of problems: ethical, logical, aesthetic, religious, educational, political. The purpose of the course is to help the student to understand what is involved in such problems, and to appreciate some of the solutions provided by the great thinkers of the past and present.
3 hours a week: 3 credits.

30. **Basic Philosophical Literature:** A critical examination of the following Philosophical classics: Plato, *The Republic;* Aristotle, *Ethics, Politics* (in part); Lucretius, *The Nature of Things*; Hobbes, *The Leviathan* (in part); Descartes, *Meditations;* Hume, *An Enquiry Concerning Human Understanding*; Mill, *Utilitarianism;* James, *Essays in Pragmatism.*
3 hours a week: 3 credits.

31. **Logic:** Semantics and the analysis of meaning; formal logic and introduction to symbolic logic; problems of scientific method. Emphasis is on the acquisition of logical skills. 2 hours a week: 2 credits.

*On leave, 1951-52.

32. **Philosophy and Science:** This course provides students with an opportunity to examine some of the basic implications of science, and to study some of the fundamental ideas in fields other than the natural and the social sciences. 2 hours a week: 2 credits.

Note: Philosophy 32 was formerly numbered 21. No student who has done Philosophy 21 should select either Philosophy 32 or Philosophy 20; and no student should take Philosophy 20 and 32, because of some similarity of content.

35. **Aesthetics:** An analysis of art from the philosophical standpoint (its origins, its place in human culture, the characteristics and specific aesthetic values of each of the major arts, principles of criticism, important contributions of the philosophy of art from Aristotle to the present day). 2 hours a week: 2 credits.

Prerequisites: In addition to Philosophy 20 or 30 or 230, an elementary knowledge of the history and content of two of the following five major arts: music, architecture, painting, sculpture, comparative literature.

36. **Ancient Philosophy:** The history of philosophy from Thales (600 B.C.) to St. Augustine (430 A.D.) and the contributions of ancient thought to western culture. Primary emphasis will be placed on extensive reading in the original sources. 2 hours a week: 2 credits.

42. **Ethics:** A critical discussion of ethical standards, their bases, the methods by which knowledge of them may be secured, and their applications to problems of personal and social morality. 2 hours a week: 2 credits.

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

47. **Early Modern Philosophy:** An examination of basic philosophical literature from the 16th to 18th Centuries; first term, Bacon, Spinoza and Leibniz; in the second term, Locke, Berkeley and Rousseau. 2 hours a week: 2 credits.

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).

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. 3 hours a week: 3 credits.

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

454. **Principles and Problems of Philosophy:** Philosophical problems related to the special interests of the members of the class will be discussed. 1 hour a week: 1 credit.

456. **Seminar in Pre-Socratic Philosophy and Plato:** Readings and discussion, based upon original source material, of philosophical writings in the period 600 B.C. to 347 B.C. Given in alternate years, offered in 1952-53. 2 hours a week: 2 credits.

Prerequisite: Philosophy 336.

457. **Seminar in Modern Philosophy:** A critical study of some classics of 19th Century philosophy; first term, Kant and Hegel; second term, German romanticism (Fichte, Schopenhauer, Nietzsche), the beginnings of existentialism (Kierkegaard), the impact of evolution on philosophy (Spencer). 2 hours a week: 2 credits.

458. **Contemporary Philosophy:** A critical study of contemporary tendencies in Logic, Epistemology, Theory of Value and Metaphysics. 2 lectures and 1 seminar hour a week: 3 credits.

462. **Ethics:** A critical study of moral problems and theories. The course will be based primarily on extensive readings in the classics of ethical writing from Plato to the present. 2 hours a week: 2 credits.

466. **Seminar in Aristotelian and Post-Aristotelian Philosophy:** Readings and discussion, based on original source material of philosophical writings in the period 350 B.C. to 529 A.D. Offered in 1953-54.

Prerequisite: Philosophy 336. 2 hours a week: 2 credits.

Graduate Courses

547. **Locke, Berkeley, Hume** (A. H. Johnson).

551. **Advanced Logic** (H. J. Johnson).

554. **Problems in Contemporary Philosophy** (A. H. Johnson).

556. **Readings in Ancient Philosophy** (Hilliard).

559. **Research Problems** (Hilliard and A. H. Johnson).

562. **Research in Value Theory** (Hilliard).

PHYSICAL, HEALTH, AND RECREATION EDUCATION

University College

Professor: EARLE F. ZEIGLER, M.A., Ph.D., Head of the Department.

Assistant Professors: J. R. FAIRS, B.Sc., M.A.; JEAN RAMSAY, M.S., Director of Women's Physical Education.

Lecturers: WILLARD L'HEUREUX, B.A.; JEAN CARMICHAEL, M.A.; KENNETH D. GOWIE, M.A.

Instructor: DONALD R. CONWAY, B.S.

Part-time Lecturers: DR. T. H. COFFEY, M.D.C.M., D.P.M. and R. (Harvard Diploma in Physical Education); NORMAN LINDSAY, B.S.A., Technical Consultant; MURRAY MCNIE; WILLIAM PILLSWORTH, M.A.; DR. HELEN ROSSITER, M.B.Ch.B., Director of University Health Service.

Secondary School Critic Teachers: GRACE BARNETT, B.P.H.E.; MARION BELL, B.A.; TERRY FERRIS, M.A.; WILDA GRABER, B.A.; LOIS GREAVES, B.P.H.E.; WINNIFRED HARDY, B.A.; DUNCAN HOOPLE, B.A.; ERNEST MCTAVISH, B.A.; JOHN MONTAGUE; WILLIAM TRAUT, B.A.

Assumption College

Director: REV. J. M. HUSSEY, M.A., Head of the Department.

Instructors: F. A. DEMARCO, Ph.D.; MARGARET WOOLCOTT FLOOD, M.A.; STANLEY NANTAIS.

Ursuline College

Instructor: BERNICE HARPER, Member R.A.D.

Waterloo College

Lecturers: ALAN CAMERON MENZIES, CAROLYN MORDEN, B.P.H.E.

One-Year Required Program

In 1950 the University inaugurated a one-year program of required physical education and recreation. An incoming student may be exempted from any required activity, if he or she can pass a battery of five classification tests in five different areas. Failure to meet the recommended standards in any of the five areas (i.e. Aquatics; Individual Program and Physical Fitness; Gymnastics; Leisure Skills; and Combatives for Men or Dance for Women) necessitates attendance for five weeks in each of the above-mentioned areas. With this new program students must fulfill requirements in the areas where they are deficient, but a credit for physical education and recreation is not absolutely necessary. All students are encouraged to enroll for credit during each year at the University.

The Medical Examination (University Health Service)

The medical examination serves several very useful functions:

1. It provides a student with the opportunity to discover the strengths and limitations of his physical make-up and thereby aids in the guidance program.
2. Such guidance takes the form of determining an academic load for physically handicapped students which will depend on findings relative to their physical capabilities.

3. Such guidance will aid the physical education department in its efforts to provide an individualized program, whether it be one of correction of remediable defects or of encouraging participation in sound recreation.

Assignment to Essential Areas where Deficiency Exists

The five areas in which proficiency must be demonstrated have been carefully planned:

1. **Aquatics:** swimming, life saving, and water safety.
2. **The Individual Program and Physical Fitness:** body mechanics, correctives, exercises for strength and endurance.
3. **Gymnastics:** shoulder girdle development; agility, strength, and balance.
4. **Leisure Skills:** individual and dual games and sports.
5. (a) Men—**Combatives:** wrestling.
   (b) Women—**The Dance:** folk, square and ballroom.

The Elective Program

The elective program, which starts for every student at some point in the freshman year, can be grouped into the following three categories:

Intramural Athletics: competitive athletics are recommended by the Department for every physically able student.

Intercollegiate Athletics: opportunity for physical, mental, and social development, for those with the ability and the interest to realize the benefits to be derived from the intercollegiate program under the leadership of skilled coaches possessing a sound educational background.

Individual Recreation Program: All students are encouraged to develop skills and interests in the many activities of the individual recreation program. "Recreation assists man to become an artist in living."

Health Education (Health Service)

This phase of the program is handled in specific classes by the University Health Service, in the freshman year.

General Regulations regarding Credit for Physical Education

To obtain credit a student must take classes in all five areas of activity, as outlined in the freshman program, or in the areas in which he is deficient, besides spending two hours a week in approved physical education and recreation activities in those areas in which he has proven himself proficient in the tests. Approved activities include individual physical education, lifesaving and first aid in addition to:

For Men	For Women
Football, basketball, hockey, swimming, wrestling, or track and field at the intercollegiate level..... 3/5 of a credit	Intercollegiate swimming or basketball .....3/5 of a credit
Soccer.....2/5 of a credit	Intercollegiate badminton, interwestern basketball or swimming ..... 2/5 of a credit
	Intercollegiate archery..... 1/5 of a credit

Courses Offered

10. Prescribed for all men and women in the first year who cannot pass each of the five classification tests. 2 hours a week: 1 credit.

20, 30, 40. Elective for men and women in the second, third and fourth years, respectively. 2 hours a week: 1 credit.

First Aid: Elementary and advanced courses, open to all students in all years. 2 hours a week for 8 weeks: ½ credit.

Life Saving and Water Safety: Open to all students in all years. Classes are usually held in the spring term. 4 hours a week for 5 weeks: ½ credit.

Individual Physical Education: Classes will be conducted for those requiring individual corrective physical education, on recommendation of the University Physician.. Credit will be given for such supervised exercise.

Honors Courses

251. **Team Games, Individual and Dual Activities.**
2 lectures, 6 laboratory hours a week: 5 credits.

258. **Introduction to (and History of) Physical, Health, and Recreation Education.** 2 lectures a week: 2 credits.

266. **Teaching Methods and Group Work Techniques.**
2 lectures a week, laboratory hours as necessary: 2 credits.

351. **Team Games, Individual and Dual Activities.**
1 lecture, 4 laboratory hours a week: 3 credits.

354. **Functional Anatomy.**
1 lecture, 1 laboratory hour a week: 1½ credits.

356. **Student Teaching and Seminar.**
1 lecture a week, both terms; 2 laboratory hours a week, second term: 1½ credits.

359. **Organization and Administration of Physical and Health Education.** 2 lectures a week: 2 credits.

371. **Social and Recreational Games.**
1 lecture, 1 laboratory hour a week: 1½ credits.

372. **Planning, Construction, and Maintenance of Recreational Facilities.** 2 lectures a week: 2 credits.

375. **Organization and Supervision of Crafts and Hobbies.**
2 lectures a week, and field work: 2 credits.

376. **Supervised Field Work in Recreation.** 1½ credits.

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

393. **School Health Education; Methods and Materials.**
2 lectures and seminars a week: 2 credits.

450. **Principles of Physical, Health, and Recreation Education.**
2 lectures a week: 2 credits.

451. **Specialized Training and Experience in Coaching and Officiating.**
1 lecture, 4 laboratory hours a week: 3 credits.

452a. **Physiology of Exercise.** 2 lectures a week, one term: 1 credit.

452b. **Kinesiology.** 2 lectures a week, one term: 1 credit.

453a. **Care and Prevention of Athletic Injuries.**
1 lecture, 2 laboratory hours a week: 1 credit.

453b. **Corrective Physical Education.**
1 lecture, 2 laboratory hours a week: 1 credit.

457. **Tests and Measurements in Physical and Health Education.**
2 lectures a week, with demonstration and laboratory work as necessary: 2 credits.

473a. **Activities for Special Groups.**
1 lecture, 2 laboratory hours a week: 1 credit.

474. **Seminar in Current Problems.** 3 lectures a week: 3 credits.

476. **Supervised Field Work in Recreation.** 1½ credits.

477b. **Industrial Recreation.** 2 lectures a week: 1 credit.

478. **Camping and Outdoor Education.**
2 lectures a week, laboratory hours as necessary: 2 credits.

Note: Write the Registrar for a pamphlet giving additional descriptions of each course.

PHYSICS

University College

Professors: A. D. MISENER, Ph.D., P.Eng.,F.R.S.C., Head of the Department; R. C. DEARLE, M.B.E., Ph.D., F.R.S.C. (Research Professor); R. L. ALLEN, M.A.; ELIZABETH R. LAIRD, Ph.D. (Honorary Professor).

Associate Professor: A. M. I. A. W. DURNFORD, Ph.D.

Assistant Professors: E. BRANNEN, Ph.D.; E. H. TULL, B.A.Sc., P.Eng., M.Sc.

Lecturers: J. H. BLACKWELL, M.Sc.; R. W. NICHOLLS, Ph.D., A.RC.S., A.Inst.P., F.R.A.S.

Instructors: R.UFFEN, B.A.Sc., M.A., P.Eng.; P. M. PFALZNER, M.Sc.

Research Fellows: R. H. ADLINGTON, B.Sc.; D. C. DARLING, B.Sc.; R. E. DAVIS, M.Sc.; H. I. FERGUSON, B.Sc.; D. R. FEWER, B.Sc.; F. R. HUNT, B.Sc.; J. E. LOKKEN, B.Sc.; R. J. MACGREGOR, B.Sc.; C. E. MONTGOMERY, M.Sc.; D. PLEITER, B.Sc.; R. G. TURNER, M.Sc.

Demonstrators: K. ROBERTS, B.Sc.; C. A. M. SMITH, M.A.

Assumption College

Professor: REV. N. J. RUTH, M.A.

Associate Professor: T. A. ALESSI, M.Sc.

Waterloo College

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

Assistant Professor: C. M. CARMICHAEL, M.Sc.

10. **Mechanics and Heat:** A survey prescribed for students intending to major in some branch of science: demonstrations and laboratory exercises covering the following principal topics: systems of measurement; laws of uniformly accelerated motion; elementary analytic statics; rotational

motion; simple harmonic motion; hydrostatics and hydrodynamics; surface tension; viscosity; osmosis; thermometry; temperature and its effects; gas laws; calorimetry; change of state; vapor pressure; hygrometry; elementary kinetic theory; first and second laws of thermodynamics, reversible cycles.

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

11. **Physical Science:** Lectures 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 and to explain the point of view of science toward some of the problems of human existence. Optional in Junior Groups 2, 3, 4 and in Senior Group B.

3 lectures a week: 3 credits.

12. **Basic Physics:** Selected topics from the fields of Mechanics, Heat, Light, Electricity and Magnetism combined with lecture demonstrations and laboratory work presenting the fundamental basis of the science to students not intending to proceed to honors science courses.

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

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: 3½ credits.

204M. **General Physics:** An extension of Physics 10, prescribed for the students who have been selected by the Admissions Committee of the Faculty of Medicine for admission to the third year premedical course, and optional for those registered in Senior Group A. The course will include lectures, demonstrations, and laboratory work to illustrate 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: 2½ credits.

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: 2 credits.

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: 1½ credits.

254. **Light and Sound:** Lectures and practical work on elementary geometrical and physical optics, and on elementary sound.

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

255. **Electricity and Magnetism:** Lectures on the principles of electricity and magnetism, including an introduction to electrical measurements.

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

350. **Dynamics and Properties of Matter:** The lectures cover 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: 3 credits.

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. 2 lectures a week: 2 credits.

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: 2 credits.

356. **Electronics:** Similar to 376, with the addition of laboratory work throughout the year. 2 lectures and 3 laboratory hours a week: 3½ credits.

359. **Modern Experimental Physics:** Laboratory work designed to give training in the techniques of the advanced physics laboratory. 6 hours a week: 3 credits.

366. **Electronics:** Similar to 376 but with the addition of one term of laboratory work. 2 lectures a week throughout the year, 3 laboratory hours a week in the second term: 3 credits.

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: 2 credits.

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: 3 credits.

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: 4½ credits.

454. **Advanced Optics:** An advanced treatment of theoretical and applied optics. 2 lectures a week: 2 credits.

455. **Theoretical Physics III:** A mathematical treatment of electrostatics and electromagnetism, with special emphasis on field theory and electromagnetic waves. 2 lectures a week: 2 credits.

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: 2 credits.

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 phenomenon, Hydrogen atom, and other problems.

2 lectures a week: 2 credits.

458. **Seminar:** Preparation of papers and reports: reading of historical essays and of articles from current magazines. Prescribed for fourth year students and optional for all students in the Mathematics and Physics course. 1 hour a week: 1 credit.

459. **Laboratory:** Designed as an accompaniment to the lecture work of the fourth year. Emphasis is laid upon individuality of work and resourcefulness. As far as possible, training is given in research methods.

12 laboratory hours a week: 6 credits.

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: 2 credits.

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: 2 credits.

479. **Laboratory:** Designed as an accompaniment to the lecture work of the fourth year Radio Physics Option.

12 hours a week: 6 credits.

Graduate Courses

502. **Physics of the Earth and Exploration Geophysics.** (Uffen).

504. **Theoretical and Applied Spectroscopy** (Nicholls).

550. **Quantum Mechanics** (Blackwell).

551. **Theory of Measurements** (Dearle).

552. **The Foundations of Physics** (Dearle).

554. **Generalized Coordinates** (Durnford).

555. **Electrodynamics** (Allen).

556. **Nuclear Physics** (Brannen).

558. **Seminar** (Staff).

560. **Statistical Mechanics** (Blackwell, Brannen).

561. **Tensor Calculus and Relativity Theory** (Brannen).

562. **The Solid State** (Misener).

564. **Astrophysics** (Nicholls).

571. **Theory of Noise** (Tull).

575. **Applied Electromagnetic Theory** (Blackwell).

The following courses are offered to graduate students who have already completed at least one year of graduate work:

650. **Theory of Atomic Collisions** (Nicholls).

661. **Introduction to Group Theory** (Brannen).

671. **Operational Methods in Physics** (Blackwell).

672. **Theory and Applications of Semiconductors** (Tull).

PSYCHOLOGY

University College

Professor: R. B. LIDDY, Ph.D., LL.D., Head of the Department.
Visiting Professor: B. ROGER PHILIP, M.A., Ph.D.
Associate Professors: LEOLA E. NEAL, Ph.D.; GORDON H. TURNER, Ph.D.
Assistant Professor: MARY J. WRIGHT, Ph.D.
Lecturer: KINGSLEY FERGUSON, M.A.
Instructor: HAROLD M. BLACKWELL, M.A.
Graduate Assistant: J. G. MCMURRAY, B.A.

Assumption College

Professor: REV. E. C. GARVEY, Ph.D.
Assistant Professor: PATRICK F. FLOOD, M.A.
Lecturers: REV. T. J. MCGOUEY, B.A.; REV. R. C. FEHR, M.A.

St. Peter's College and Ursuline College

Associate Professor: MOTHER M. ST. MICHAEL, M.A., Ph.D.
Instructors: *REV. M. J. WILDGEN, B.A., Ph.L.; REV. W. J. RING, B.A., Ph.L.

Waterloo College

Lecturers: F. C. PETERS, M.Sc., B.D.; H. W. WRIGHT, Ph.D.

In University College, Psychology 20 or 30 is prerequisite to all other courses in psychology.

20. **Introduction to Psychology:** Contemporary psychological methods and tendencies; intelligence and intelligence testing; memory and the learning process; motivation; feeling and emotion; sensation and perception; types of thinking; personality. 3 hours a week: 3 credits.

30. **Principles and Methods:** A discussion of the motives, emotions, and intellectual abilities of human beings; special emphasis on the effective use of these factors in private and social activities. Open only to students who have neither had nor are taking Psychology 20 or Philosophy 31.
3 hours a week: 3 credits.

35. **Experimental Psychology I:** An elementary course designed to introduce the student to standard laboratory techniques in psychology; emphasis is placed upon learning, aesthetic judgment, motor aptitudes; a brief introduction to statistics.
2 lectures, 2 laboratory hours a week: 3 credits.

*On leave, 1951-52.

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

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

38. **Experimental Psychology II:** A laboratory study of such processes as sensation, perception, reaction times, emotions and the higher thought processes. 2 lectures, 2 laboratory hours a week: 3 credits.

39. **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: 2 credits.

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

48. **Abnormal Psychology:** A consideration of abnormal activities in sensation, perception, memory, emotion, thought and behavior; mental deficiency; the causes and symptoms of the psychoneurotic disorders; some reference to major mental disorders; psychotherapeutic techniques including hypnosis and psychoanalysis; spiritism and extrasensory perception.
2 hours a week: 2 credits.

49. **Social Psychology:** The activities of living beings in response to their social environment. The conditioning of personality by the family and other groups; types of prejudice; leadership and prestige in social life; the mob; mental epidemics; propaganda; public opinion.
2 hours a week: 2 credits.

Honors Courses

Offered in University College only.

The following courses are identical with the Pass courses indicated, 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: 2 credits.

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

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

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

459. **Research Problems:** A seminar course in which students will select topics for special investigation. 3 hours a week: 3 credits.

Courses Leading to the Degree of M.A.

550. Personality and Personality Problems (Philip).
552. Advanced Genetic Psychology (Wright).
555. Advanced Clinical Methods (Neal).
556. Problems in Industrial Psychology (Turner).
558. Advanced Abnormal Psychology (Liddy).
559. Dissertation Seminar.

For **RELIGIOUS KNOWLEDGE** courses, see the affiliated colleges, pp. 104-122.

ROMANCE LANGUAGES

University College

Professors: R. W. TORRENS, Ph.D., Head of the Department; H. E. JENKIN, D. ès L. (Hon.); A. DOROTHY TURVILLE, Ph.D.

Associate Professors: W. E. COLLIN, L. ès L., M.A.; FRANCES K. MONTGOMERY, Dr. de l'U. de Paris.

Lecturers: *R. N. SHERVILL, M.A.; JACQUES METFORD, Dr. de l'U de Paris.

Instructors: TOMAS BARTROLI; JEAN M. CROSS, M.A.

Assumption College

Professor: REV. J. F. MALLON, M.A.

Associate Professor: MOST REVEREND C. L. NELLIGAN, B.A., D.D.

Assistant Professor: SISTER PAULINE OF MARY, B.A.

Instructors: PAULINE BONDY, B.A.; EILEEN L. KELLY, M.A.; REV. J. H. MCMANUS, B.A.

St. Peter's College

Professor: REV. W. F. SIMPSON, M.A.

Ursuline College

Professor: MOTHER M. MARIE, Ph.D.

Associate Professor: MOTHER M. ROSANNA, M.A.

Waterloo College

Assistant Professors: W. D. EVANS, M.A.; ILSE ERIKA AKSIM STEWART (MRS. D.), M.A.

Lecturer: MRS. E. GILDNER, B.A.

French

General course students may, with the consent of the Head of the Department, elect French 381 and 491 as optional credits toward graduation.

10. **Intermediate French:** Grammar, dictation, translation, oral practice. 3 hours a week: 3 credits.

Prerequisite: Grade XII French.

20. **Advanced French:** Grammar, translation, free composition, oral practice. 3 hours a week: 3 credits.

Prerequisite: French 10 or Grade XIII French.

*On leave, 1951-52.

22. **French Conversation:** Systematic oral practice for those students who wish to develop fluency in speaking French.
Prerequisite: French 20. 2 hours a week: 1 credit.

30. **Outline of French Literature:** Origins to 1700 A.D.
Prerequisite: French 20. 3 hours a week: 3 credits.

33. **Commercial French:** Business correspondence, simple transactions, selected reading. For students in Secretarial Science, optional in Business Administration. Given in University College only.
Prerequisite: French 20. 3 hours a week: 3 credits.

40. **Outline of French Literature:** From 1700 A.D. to the present time. 3 hours a week: 3 credits.
Prerequisite: French 30.

43. **Commercial French:** Advanced transactions, reading. For students in Secretarial Science. Given in University College only.
Prerequisite: French 33. 3 hours a week: 3 credits.

45. **Scientific French:** The reading of Scientific French, from textbooks and journals, supplemented by reading in the special field of study of each student. 1 hour a week: 1 credit.
Prerequisite: French 10 or Grade XIII French.

48. **French-Canadian Literature:** Lectures and reading on the historical and cultural background and the philosophical and literary contributions of French Canada. 3 hours a week: 3 credits.
Prerequisite: French 20.

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: 3 credits.
Prerequisite: Junior Group 4.

271. **Prose Composition, Phonetics:** 1 hour a week: 1 credit.
Prerequisite: Junior Group 4.

290. **French Civilization and Culture:** (Origins to 1789); survey of the most significant French cultural achievements and a study of the background which produced them; lectures, reading, reports.
Prerequisite: Junior Group 4. 2 hours a week: 2 credits.

380. **The Literature of the Eighteenth Century and French Civilization and Culture:** The second part of the course will complete French 290, covering the period 1789 to the present; lectures, reading, discussion, reports in French. 3 hours a week: 3 credits.
Prerequisite: French 270.

381. **Prose Composition, Phonetics and Conversation.**
Prerequisite: French 271. 3 hours a week: 3 credits.
An equivalent course is given also at Trois-Pistoles, P.Q., during July and August. For full details see special bulletin.

450a. **Mediaeval French:** Reading of Old French, historical grammar, history of mediaeval literature; reading, lectures.
Prerequisite: French 380. 3 hours a week: 1½ credits.

450b. **Contemporary French Literature:** Study of some typical examples of the novel and drama of the twentieth century; reading, lectures, reports. 3 hours a week: 1½ credits.
Prerequisite: French 380.

490. **The Literature of the Nineteenth Century:** Lectures, reading and reports. 3 hours a week: 3 credits.
Prerequisite: French 380.

491. **Advanced Composition, Grammar and Phonetics.**
Prerequisite: French 381. 3 hours a week: 3 credits.

An equivalent course is given also at Trois-Pistoles, P.Q., during July and August. For full details see special bulletin.

ITALIAN

1. **Elementary Italian:** Grammar, oral practice, translation of simple texts. 3 hours a week: 3 credits.

10. **Intermediate Italian:** Review of grammar, translation of modern Italian, oral practice. 3 hours a week: 3 credits.
Prerequisite: Italian 1 or its equivalent.

20. **Outline of Italian Literature and Civilization:** Composition, translation, history of literature. 3 hours a week: 3 credits.
Prerequisite: Italian 10.

SPANISH

1. **Elementary Spanish:** Grammar, translation, dictation, oral practice. 3 hours a week: 3 credits.

10. **Intermediate Spanish:** Grammar, translation, composition, oral practice. 3 hours a week: 3 credits.
Prerequisite: Spanish 1 or its equivalent.

20. **Advanced Spanish:** Grammar review, composition, translation, oral practice. 3 hours a week: 3 credits.
Prerequisite: Spanish 10 or its equivalent.

22. **Conversation:** Systematic oral practice for developing fluency in speaking Spanish. 2 hours a week: 1 credit.
Prerequisite: Spanish 10.

Note: Spanish 30, 31, 40, 41 are identical with 230, 231, 340, 341 respectively.

Honors Courses

All students in Honors Courses will take a comprehensive examination at the end of the final year. See page 15.

230. **Spanish Drama** since the 17th Century; lectures, reading, discussion, reports. 2 hours a week: 2 credits.
Prerequisite: Spanish 20.

231. **Commercial Spanish:** Grammar, composition, phonetics.
Prerequisite: Spanish 20. 2 hours a week: 2 credits.

260. **Spanish Lyric Poetry:** Lectures, reading, discussion.
Prerequisite: Spanish 20. 1 hour a week: 1 credit.

340. **Modern and Contemporary Spanish Novel:** Lectures, reading, discussion, reports. 2 hours a week: 2 credits.
Prerequisite: Spanish 230.

341. **Commercial and Industrial Spanish:** Grammar, advanced composition, reading. 2 hours a week: 2 credits.
Prerequisite: Spanish 231.

360. **Spanish Civilization:** An historical survey of Spanish and Spanish-American culture; the modern Spanish-American novel; lectures, reading, reports. 3 hours a week: 3 credits.
Prerequisites: Spanish 230 and 260.

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: 3 credits.

460. **Spanish Ballad, Picaresque Novel, Cervantes, Drama of the Golden Age:** Lectures, reading, reports. 3 hours a week: 3 credits.
Prerequisites: Spanish 340 and 360.

Graduate Courses

503. **Old French and Philology** (*Turville*).

550. **Contemporary French Poetry** (Collin).

551. **Advanced French Composition** (Torrens).

560. **The Literature of French Canada** (Collin).

570. **Seminar in Seventeenth Century French Literature** (Montgomery).

580. **Seminar in Eighteenth Century French Literature** (Montgomery).

RUSSIAN STUDIES

University College

Associate Professor: LEONID IGNATIEFF, M.A., Head of the Department.

Assumption College

Lecturers: GEORGE NOWOTNY, M.A., LL.D.; THEODOS TSCHERNITZA, LL.D.

1. **Elementary Russian:** A beginning course; pronunciation, grammar, dictation, translation, oral practice. 3 hours a week: 3 credits.

10. **Intermediate Russian:** Grammar, dictation, translation, composition and conversation. 3 hours a week: 3 credits.
Prerequisite: Russian 1.

20. **Advanced Russian:** Special problems of grammar, translation, conversation, composition. 3 hours a week: 3 credits.
Prerequisite: Russian 10.

29. **A Survey of Russian Literature:** for those without a reading knowledge of Russian. 1 hour a week: 1 credit.

30. **Outline of Russian Literature:** Nineteenth and Twentieth centuries. Prerequisite: Russian 20. 3 hours a week: 3 credits.

37. **Russia—U.S.S.R.**

(i) Economic, political and social developments from the Kiev period until 1905.

(ii) Russia in revolution; economic, political and social change in the U.S.S.R. 3 hours a week: 3 credits.

45. **Scientific Russian:** The reading of scientific texts and articles in Russian. For Honors Science Students. 1 hour a week: 1 credit.
Prerequisite: Russian 10.

SECRETARIAL SCIENCE

Professor: MARY H. GILLESPIE, M.A., Head of the Department.
Lecturer: MRS. C. B. CHAPMAN, B.A.
Instructor: MRS. FRANK REEVES, B.A.
Assistant: MABEL A. HYND.

Students are warned that the difficulty of adjusting timetables makes it impossible for those who are unable to pass the final tests of each year to take general Arts subjects of a succeeding year in conjunction with their Shorthand and Typewriting. Therefore, students who fail to pass in one or more of their subjects are faced with the possibility of having to lose an entire year.

28-29. **Shorthand and Typewriting:** Pitman's Shorthand: theory; speed up to 60 words a minute, and typed transcription of notes. Touch system of typewriting; care of machine; letter styles; copying from manuscript and printed matter; centering; accuracy and time tests.
12 hours a week: 6 credits.

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: 1½ credits.

38-39. **Shorthand and Typewriting:** Shorthand speed up to 100 words a minute; typed transcription of notes; typewriting from manuscript; tabulation; carbon copies; telegrams; financial statements; methods of duplicating; accuracy and time tests. 12 hours a week: 6 credits.
Prerequisites: Secretarial Science 28-29.

47. **Office Practice:** The responsible duties of the various members of an office staff and the operation of modern office equipment are undertaken by the fourth year students. Units of work are assigned in rotation. Lectures are given on secretarial duties, office organization, the administration of services, the problem of office personnel.
15 hours a week: 7 credits.
Prerequisites: Secretarial Sciences 37, 38, 39.

48-49. **Shorthand and Typewriting:** Shorthand speed up to 130 words a minute; typed transcription of notes; typewriting speed up to 60 words

a minute; typing from advanced copy (technical matter, foreign languages) and from dictation. 10 hours a week: 5 credits.

Prerequisites: Secretarial Science 38, 39.

For **SPANISH** *see Romance Languages.*

ZOOLOGY

University College

Professors: A. W. A. BROWN, M.B.E., Ph.D., Head of the Department; HELEN I. BATTLE, Ph.D.

Associate Professor: W. W. JUDD, M.A., Ph.D.

Assistant Professor: D. M. SCOTT, Ph.D.

Honorary Lecturers: B. N. SMALLMAN, Ph.D.; H. A. U. MONRO, M.Sc.

Instructor: R. H. STINSON, B.A.

Senior Demonstrators: R. O. STANDFIELD, M.A.; LENORE MCLEESE, B.Sc.

Graduate Demonstrators: W. O. HAUFE, B.A.; R. J. MCCLANAHAN, B.Sc.; P. E. MORRISON, B.Sc.; BARBARA SHAW, B.A.

Assumption College

Professor: REV. A. J. GRANT, M.A.

Lecturers: R. J. DOYLE, M.A.; SISTER MICHAEL MARY, B.A.

Instructor: EMIL GODO, B.S.A.

Waterloo College

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

Assistant Professor: C. M. CARMICHAEL, M.Sc.

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

11. **Biological Science:** The fundamental principles of biology with stress on the cell as a unit, the origin and preservation of the individual and the race, the mode of inheritance, and the applications of biology to social and economic problems. This course is illustrated by examples from the botanical as well as the zoological field.

Open to Junior and Senior Groups.

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

Students obtaining 60 per cent. in this course may select options for further study in Botany and Zoology.

11N. **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: 1½ credits.

20b. **Human Biology:** The organization and activities of the human body and an introduction to human genetics with its application to social problems.

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

Prerequisite: Zoology 10 (60%) or 11 (60%) or Grade XIII Zoology (66%).

21. **Mammalian Zoology:** The evolutionary development of structure and functions in the mammals. For students in the Nursing, Home Economics and Physical Education courses.

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

Prerequisite: Grade XIII Zoology (66%) or Zoology 11 or 11N.

22a. **Vertebrate Natural History:** The habits, adaptations, and distribution of vertebrates. Common Ontario vertebrates will be studied in the laboratory.

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

Prerequisite: Zoology 10 or 11.

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

11 hours a week: 1½ credits.

25. **Principles of Genetics:** An introduction to Mendelian inheritance, chromosome and gene theory, and the genetic conception of species.

2 lectures a week: 2 credits.

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

40b. **Human Physiology:** A survey of the functions of the organ systems, with practical demonstrations.

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

Prerequisite: Zoology 20b, 21N or equivalent.

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

Prerequisite: Zoology 10. 2 lectures a week: 2 credits.

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: 3½ credits.

250. **Comparative Vertebrate Zoology:** The biology, origin, and evolution of the classes of vertebrates; an introduction to some principles of evolution. 2 lectures, 4 laboratory hours a week: 4 credits.

Prerequisite: Junior Group 1.

350. **Invertebrate Zoology:** The anatomy and biology of representative invertebrate animals and the general classification of the group. (*Up to and including* 1950-51, *this course was Zoology* 250.)

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

Prerequisite: Zoology 250.

354. **Elementary Histology, Embryology and Experimental Biology:** An introduction to the microscopic structure, the functioning and the development of vertebrate tissues and organs as exemplified in the frog.
1 lecture, 3 laboratory hours a week: 2½ credits.
Prerequisite: Zoology 250.

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

360. **Entomology:** The biology and economic importance of the insects, and in addition the spiders, mites, crustacea and other arthropods.
2 lectures a week: 2 credits.

452. **Animal Physiology:** This course will be divided into two parts: **(I) Cellular Physiology:** Application of general physical and chemical principles to biological phenomena including an introduction to cellular physiology, and metabolic processes as illustrated by selected invertebrate and vertebrate types. 1 lecture, 2 laboratory hours a week: 2 credits.
Prerequisite: Zoology 354.

(II) Organ Physiology: The functions of organ systems, particularly the vertebrate. 1 lecture, 2 laboratory hours a week: 2 credits.
Prerequisite: Zoology 250.

453. **Animal Ecology:** Effects of environmental factors; distribution of animals; animal communities; population dynamics; variation, adaptation, and evolution. 2 lectures a week: 2 credits.

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

455. **Principles of Genetics:** The principles of Mendelian genetics and the chromosome theory, illustrated by lectures and the practical performance of simple breeding experiments. 2 lectures a week: 2 credits.
Prerequisite: Zoology 350.

460. **Insect Morphology and Taxonomy:** The anatomy and classification of insects and related invertebrates.
2 lectures, 2 laboratory hours a week: 2 credits.

461. **Economic Entomology:** Biology of insects and acarines of economic importance. 1 lecture, 2 laboratory hours a week: 2 credits.

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. 0 credits.

Graduate Courses

A selection from the following courses will be offered:

544. **Embryology** (Battle).

551. **Wildlife Ecology** (Stinson).

552. **Aquatic Biology** (Scott).

554. **Histology** (Battle).
555. **Mammalogy and Ornithology** (Stinson and Scott).
556. **Economic Entomology** (Brown).
560. **Insect Morphology** (Judd).
561. **Medical Entomology** (Brown and Judd).
562. **Insect Physiology and Toxicology** (Brown).
564. **Insect Histology** (Judd).

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: 1½ credits.

30T. **History of Mediaeval and Modern Art:** Drawing, sketching and painting. Summer School only. 11 hours a week: 1½ credits.
Prerequisite: Art 20T.

Economics

29T. **Community Organization:** Historical background of the Ontario rural community; economic and social characteristics of the rural community; institutions affecting rural life, such as co-operatives, Federation of Agriculture, visual education, radio forums, community centres, health organization. Summer School only. 5 hours a week: 1 credit.

39T. **Rural Sociology:** The rural citizen, the school in the community, education for rural living, co-ordination of rural interests. Summer School only. 7½ hours a week: 1½ credits.

Educational Counselling

20T. **Principles and Applications:** Summer School only.
5 hours a week: 1 credit.

30T. Continuation of 20T which is a prerequisite. Summer School only. 5 hours a week: 1 credit.

English

19S. **Speech Correction:** Offered in Summer School only.
5 hours a week: 1 credit.

26T. **Reading:** To improve expression and comprehension, to increase reading speeds. Summer School only. 5 hours a week: 1 credit.

29S. **Clinical Methods in Speech Correction:** Offered in Summer School only. 7 hours a week of lectures and clinics: 1 credit.

31T. **Composition:** Relation of material to style, making of reports and synopses, letters (business and social). Offered in the Summer School only. 5 hours a week: 1 credit.
Prerequisite: English 21.

33T. **History of the English Language:** Vocabulary, syntax, accidence, phonology from historical point of view. Offered in the Summer School only. 5 hours a week: 1 credit.

36S. **Dramatics:** The mechanics of play production. Offered in the Summer School only. 11 hours a week: 1½ credits.

46S. **Dramatics:** Advanced course in play-production. Offered in the Summer School only. 3 credits.

Handicrafts

20T. **Craft Work:** for all grades. Summer School only.
11 hours a week: 1½ credits.

30T. A continuation of 20T, which is a prerequisite. Summer School only. 11 hours a week: 1½ credits.

Mathematics

20T. **Business Mathematics:** Summer School only.
5 hours a week: 1 credit.

Public Health

30T. **Introductory:** Application of general principles of sanitation to the health of the public. Previous standing in Grade XIII Chemistry and Biology desirable. Summer School only.
11 hours a week: 1½ credits.

Zoology

23S. **Biological Field-Studies:** Summer School only.
11 hours a week: 1½ credits.

ALMA COLLEGE

(*St. Thomas, Ontario*)

(Founded in 1877: affiliated in 1925)

Principal

THE REVEREND P. S. DOBSON, M.A., D.D.

Dean of Residence

MRS. STEELE SIFTON, B.A., B.Ed.

Registrar

HARRIET JOLLIFFE, A.A.C.M.

For Officers of Instruction, see pp. 137-149.

Alma College is a two-year Junior College affiliated with the University of Western Ontario. It admits to its University classes students who have the University entrance requirements as set forth on p. 12, and offers them Junior Group 3 or 4 (p. 28) or a two-year course in Home Economics leading to a diploma in Home Economics or the first two years of the Home Economics Course outlined on page 105.

Home Economics

(Diploma Course)

Grade XIII standing in English and French or German or Spanish will cancel English 10, and a first year Modern Language; Grade XIII Chemistry with Second Class standing will cancel Chemistry 10. For descriptions of the subjects listed, see the University College section.

First Year

	Credits		*Credits*
English 10, 19	4	Psychology 20 or Religious Knowledge 20	3
Chemistry 11N	3	Physical Education 10	1
Home Economics 25x, 26x, 30x, 32x	7	Music, or Art, or Applied Art, or Modern Language (10)	3

Second Year

Botany 36b	1½	English 20	3
Chemistry 22a	1½	Home Economics 33x, 34x, 40x, 42x	6
Economics 20	3	Music, or Art, or Applied Art, or Modern Language (20)	3

ASSUMPTION COLLEGE

(*Windsor, Ontario*)

(Founded in 1857; affiliated in 1919)

President

VERY REV. J. H. O'LOANE, M.A.

Dean

REV. E. C. LEBEL, M.A.

Registrar

REV. P. J. M. SWAN, Ph.D.

For Officers of Instruction, see pp. 137-149.

Assumption College, founded in 1857, has been conducted by the Basilian Fathers since 1870. Since 1919 Assumption has been affiliated with the University of Western Ontario.

Admission to Assumption College may be gained with complete Middle School standing (see page 12). Graduates of accredited American High Schools may be admitted to the Freshman class upon proper certification of their record by the Principal on *a form which must be secured* from the Registrar, Assumption College. The record must show a definite recommendation by the Principal of the applicant's fitness to pursue college work. A limited number of students may be accommodated with on-campus residence and boarding facilities.

Assumption College is on the approved list for Canadian and American war veterans.

Courses Offered

The following courses are offered in Assumption College only. For those common to Assumption and University Colleges, see the University College section. For the Home Economics Diploma course in Alma and in Assumption Colleges, see p. 105.

Philosophy and Psychology

First Year

One year's work in any Junior Group. Admission to the Sophomore Year in Honors Philosophy is subject to approval by the Registrar and the Department of Philosophy.

Second Year

	Credits		*Credits*
English 20	3	One second year foreign language	3
Philosophy 231x, 237x	4	At least 5 credits from options approved by the Registrar and the Department of Philosophy	5
Psychology 20x	3		

Third Year

English option	3	9 credits of Philosophy courses from: 234bx, 340x, 341ax, 341bx, 342ax, 342bx, 350x, 443x, 444ax, 445ax, 445bx, 449x, 457x, 458x, 462x	9
Psychology 36x	2		
At least 3 credits from options approved by the Registrar and the Dept. of Philosophy	3		

Fourth Year

English option	3	At least 3 credits from options approved by the Registrar and the Department of Philosophy	3
12 credits of Philosophy from the above list	12		

Pre-Engineering

Through an arrangement with American Colleges of Engineering, students may complete the basic, two-year, pre-engineering course at Assumption. No student will be accepted whose average in Mathematics and the Sciences is lower than "B". Students who have not a High School credit in Solid Geometry must remove this deficiency in their Freshman year.

Courses marked x are offered only in Assumption College.

Freshman Year

FIRST SEMESTER	Lectures	Lab.	Semester Credits	SECOND SEMESTER	Lectures	Lab.	Semester Credits
Religion E11x	2	0	2	Religion E11x	2	0	2
English 10, 19	4	0	4	English 10, 19	4	0	4
Chemistry 10	2	3	3	Chemistry 10	2	3	3
Mechanical Drawing E-1x	1	6	2	Math. 12 (Analytic Geometry)	3	0	3
Math. 18 (Trigonometry)	3	0	3	Descriptive Geom. E-10x	1	6	3
Math. 10 (Algebra)	3	0	3				

Sophomore Year

FIRST SEMESTER	Lectures	Lab.	Semester Credits	SECOND SEMESTER	Lectures	Lab.	Semester Credits
Religion E21x	2	0	2	Religion E21x	2	0	2
English 31x	3	0	3	English 31x	3	0	3
Math. 24	4	0	4	Math. 24	4	0	4
Physics 10	2	3	3	Physics 10	2	3	3
Physics E10x	2	3	3	Physics E10x	2	3	3
Mechanical Drawing E20x	1	9	3	Mechanical Drawing E20x	1	9	3
or				or			
Chemistry E-12ax	1	6	2	Chemistry E-12bx	1	6	2
				Surveying E-226x	2	3	3

NOTE 1: Chemical and mechanical engineering students will take Chemistry E-12; civil and architectural engineering students will take Surveying. Others have an option between the two.

NOTE: All Catholic students will take the Religion courses. Non-Catholic students will substitute a Philosophy option.

Description of Courses offered only in ASSUMPTION COLLEGE

For all other courses, see the University College section.

Chemistry

E12x. **Qualitative Analysis:** A laboratory course covering the principles of Qualitative Analysis; the qualitative determination of the common cations and anions by macro methods. One lecture and six laboratory hours a week for one semester. American credit hours: 2.

Classics

35x. **Survey of Mediaeval Latin:** From the death of St. Augustine to the 12th Century; lectures on Latin style and culture of the period; syntax and composition. 3 hours a week: 3 credits.

Engineering

E-1x. **Mechanical Drawing:** Six hours of drafting room practice each week of the first semester. Lettering; use and care of instruments; orthographic projection; dimensioning; sectional views; conventional representation of screw threads. Drawings are made on drawing paper, tracing paper and tracing cloth. American credit hours: 2.

E20x. **Mechanical Drawing:** Nine hours of drafting room practice each week of the first or second semester. Isometric and perspective drawing; auxiliary views; sectional views; detail drawing of simple machines and structures; assembly drawings of the problems detailed. Blue prints and black and white prints made from tracings and drawings made in class. Students will work directly on tracing paper or vellum, and cloth tracings will be made of one or more drawings.

Prerequisite: E-1. American credit hours: 3.

E22x. **Elementary Surveying:** Two hours lecture and three hours laboratory per week. Theory of plane surveying; care and use of instruments. Measurement of corrections for taping; theory of differential levelling and angular measurements; land surveys; Canadian Public Land Subdivision (which is based on American); measurement of angles and distances of a closed traverse; differential and profile levelling practice; understanding of stadia. American credit hours: 3.

Prerequisite: Trigonometry.

English

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

3 hours a week: 3 credits.

Mathematics

E10x. **Descriptive Geometry:** Six hours of each week of the second semester devoted to lectures, recitations and drawing room practice. Orthographic projection including auxiliary and oblique views. Graphical solution of problems involving points, lines, and planes. Intersection of solids and development of surfaces. All problems are drawn according to drafting room practices as regards lettering and contrast of lines.

Prerequisite: Mechanical Drawing E-1. American credit hours: 3.

Philosophy

In Assumption College, additional assignments are required in Honors courses in Philosophy; otherwise, the General Course options in Philosophy are identical with the Honors courses.

13x. **Rational Foundations of Religion:** A philosophical discussion of man's relation to God, moral life and religion. 2 hours a week: 2 credits.

30x. **Introduction to Philosophy:** Problems, divisions and method of philosophy; the principles of natural philosophy, metaphysics, epistemology and moral philosophy; an outline of the main tendencies in the history of philosophy. 3 hours a week: 3 credits.

31x. **Logic:** Simple apprehension, judgment and the elements of deductive and inductive reasoning. 2 hours a week: 2 credits.

34xb. **The Philosophy of Democracy:** The meaning of democracy and how it can be achieved. 2 hours a week: 1 credit.

35x. **Aesthetics:** History and nature of the philosophy of art. 2 hours a week: 2 credits.

36x **Ancient Philosophy:** From Thales to St. Augustine. 2 hours a week: 2 credits.

37x **Mediaeval Philosophy:** From Boethius to Ockham. 2 hours a week: 2 credits.

40x. **Philosophical Ideas in Modern English Literature:** 3 hours a week: 3 credits.

41xa **Metaphysics:** Being; the transcendental attributes of being; analogy; essence and existence; act and potency; necessity and contingency; the principles of causality and sufficient reason. 3 hours a week: 1½ credits.

41xb. **Natural Theology:** The existence and attributes of God as known through natural reason. 3 hours a week: 1½ credits.

42xa. **Ethics:** An introduction to the principles of moral philosophy 3 hours a week: 1½ credits.

42xb. **Social Philosophy:** The nature and function of society; freedom, authority, government, the family and the state. 3 hours a week: 1½ credits.

44xa. **Theories of World Society:** A philosophical and historical study of suggested principles of a world society. 2 hours a week: 1 credit.

44xb. **Humanism and the Renaissance:** An historical and philosophical study of the humanist ideas of the Renaissance.
2 hours a week: 2 credits.

45xa. **The History of Political Philosophy:** Ancient, mediaeval and modern political thought. 3 hours a week: 1½ credits.

45xb. **Contemporary Political Philosophy:** Political thought after Hegel; fundamental assumptions underlying present-day political movements. 3 hours a week: 1½ credits.

47x. **Modern Philosophy:** From Descartes to Kant.
2 hours a week: 2 credits.

49xa. **The Philosophy of Science:** The meaning of nature and the laws of nature in philosophy. 2 hours a week: 1 credit.

Honors Courses

350x. **Philosophical Texts:** An examination of specified source material in Greek, Mediaeval and Modern Philosophy.
2 lectures, 1 seminar hour a week: 3 credits.

443x. **Philosophy of Religion:** The relations among theology, theodicy and the other sciences; existence and attributes of God; the problem of evil; freedom and divine foreknowledge; immortality; the virtue of religion. 2 hours a week: 2 credits.

457x. **Seminar in Modern Philosophy:**
2 hours a week: 2 credits.

458x. **Contemporary Philosophy:** A critical study of contemporary tendencies in Logic, Epistemology, Axiology, Philosophy of Nature, and Metaphysics. 2 lectures, 1 seminar hour a week: 3 credits.

462x **Ethics:** A critical study of moral problems and theories; extensive readings in the classics of ethical writings from Plato to the present.
2 hours a week: 2 credits.

Graduate Courses

551x. **Problems in Social Philosophy.**

552x. **Thomistic Principles.**

553x. **Problems in Greek Thought.**

554x. **Thomistic Revival.**

555x. **Philosophy of Education.**

557x. **Texts of St. Thomas Aquinas.**

560x. **Philosophical Principles of Literary Criticism.**

Physics

E-10x. **General Physics:** Light, Sound, Electricity and Magnetism.
2 lectures and 3 laboratory hours a week: Canadian credits 3.
American credit hours 6.

Psychology

20x. **Introduction to Psychology:** Problems, division and methods; relations and elements of experimental and rational, theoretical and applied, individual and social psychologies. 3 hours a week: 3 credits.

35x. **Experimental Psychology:** Introduction to laboratory techniques in psychology; general notion of psychological measurements; measuring instruments and their uses.
2 lectures, 2 laboratory hours a week: 3 credits.

36x. **Genetic and Educational Psychology:** The growth of personality; general tendencies and individual differences; problems of education.
2 hours a week: 2 credits.

37xa. **Theory and Construction of Mental Tests:** Introduction to the theory, construction and use of mental tests.
3 hours a week: 1½ credits.

37xb. **Statistical Methods in Psychology:** The notion and use of elemental statistical methods and measurements in psychology.
3 hours a week: 1½ credits.

38x. **Advanced Experimental Psychology:** A laboratory study of such processes as sensation, perception, reaction time, emotional and thought processes. 2 lectures, 2 laboratory hours a week: 3 credits.

44x. **History of Psychology:** A survey of ancient, mediaeval, modern and contemporary psychological theories. 2 hours a week: 2 credits.

46x. **Applied Psychology:** The application of psychology to the various fields of human activities. 2 hours a week: 2 credits.

49x. **Social Psychology:** The activities of man in response to his social environment; the social, cultural setting and psychological foundations of social behaviour. 2 hours a week: 2 credits.

Religious Knowledge

Professor: REV. W. J. DWYER, Ph.D.
Associate Professor: VERY REVEREND J. H. O'LOANE, M.A.

11x. **Fundamentals of Christianity:** Apologetics; creation and redemption. 2 hours a week: 2 credits.

21x. **Church History:** From the Apostolic age to the present.
2 hours a week: 2 credits.

E-21x. **Supernatural Life and Principles of Conduct:** Mystical Body; grace; sacraments; divine law; practical applications.
2 hours a week: 2 credits.

30x. **Synthesis of Catholic Dogma.** 2 hours a week: 2 credits.

40x. **Catholic Lay Leadership:** The history, principles and methods of Catholic Action. Extensive reading and discussion of current, social, intellectual, literary, educational and artistic movements.
2 hours a week: 2 credits.

Zoology

31x. **Comparative Vertebrate Zoology:** Comparative structure and function of vertebrate organ systems, introductory embryology.
3 lectures, 3 laboratory hours a week: 4½ credits.

32ax. **Endocrinology:** A study of the physiological phenomena associated with endocrine functions.
2 lectures and 4 laboratory hours a week: 2 credits.
Prerequisite: Zoology 31.

32bx. **Embryology:** Origin and development of vertebrates.
2 lectures and 4 laboratory hours a week: 2 credits.
Prerequisite: Zoology 31.

33x. **Histology:** Microscopic study of epithelium, connective tissues, blood, muscles and nerves.
2 lectures and 4 laboratory hours a week: 4 credits.
Prerequisite: Zoology 31.

For Scholarships available at Assumption College, consult the Registrar of that College.

HURON COLLEGE

(London, Ontario)

(Founded in 1863)

Principal

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

Registrar and Bursar

REV. M. B. PARKER, M.A., B.D.

For Officers of Instruction, see pp. 137-149.

For the Pre-Theological General Course for students under 21 years of age, see p. 30. The following course is offered jointly by Huron and University Colleges for those students over 21 years old.

GENERAL COURSE WITH THEOLOGICAL OPTIONS

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

The following course, the Theological Options of which are available at Huron College only, is accepted by the University for all Protestant students who have been officially approved as candidates for the ministry by the governing authorities of their respective denominations. This course, however, is open to any man or woman over 21 years of age who may be interested in training for religious work as a profession or as an avocation. To meet the individual needs of this latter group, adjustments, especially in Greek and Hebrew, will be arranged as the timetable permits.

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

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

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

First Year

	Credits		*Credits*
Apologetics 10x	2	Latin 10	3
Church History 10ax	1½	Library Science 10	½
English 10, 19 or Homiletics 19x	4	New Testament 11x	1
Greek 1 or 1x	3	Old Testament 10x	1
History 20bx	1½	Physical Education 10	1
Health Lectures	0		

Second Year

Economics 20	3	Homiletics 29x or English 29	1 or 2
English 20	3	New Testament 21x	1
Greek 25x	3	Old Testament 20x	1
Hebrew 1	3	Psychology 20	3

Third Year

English 32 or 36 or 38	3	New Testament 31x	1
Greek 35x	3	Old Testament 30x	1
Hebrew 10	3	Philosophy 30	3
History 36	3	Psychology 39	2

Fourth Year

Church History 40x	2	New Testament 41x	1
Economics 28	3	Old Testament 40x	1
English 49	3	Philosophy 31, 33x	3
History 31x or 44	3 or 2	Psychology 48	2

Apologetics and Ethics

Professor: RIGHT REV. W. T. HALLAM, M.A., D.D., LL.D.

10x. **Theistic and Christian Belief:** (a) a review of theistic and anti-theistic theories. A statement of the grounds for faith in God and for religion, having regard to recent developments in science, philosophy and psychology.

(b) Christian evidences. The life and teaching of Christ and a study of specific problems in Christian faith. 2 hours a week: 2 credits.

33x. **Christian Ethics:** The ethics of the New Testament; the development of ethical thought during the Christian era; Christian ethical standards of today as they affect the individual and society.

1 hour a week: 1 credit.

Biblical Greek

Professor: REV. R. K. HARRISON, B.A., B.D., M.Th.

Instructor: REV. M. B. PARKER, M.A., B.D.

1x. A preparatory course, leading up to a standard equivalent to matriculation, in Alexandrian (New Testament) Greek, arranged especially for theological students in Huron College. 3 hours a week: 3 credits.

See note under Greek (p. 55).

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

3 hours a week: 3 credits.

Prerequisite: Greek 1 or Greek 1x or Grade XII Greek.

35x. The Gospel of St. Matthew; I and II Corinthians; The Gospel of St. Luke; Romans; Pastoral Epistles. Exegesis, composition, sight translation. Offered by Huron College. 3 hours a week: 3 credits.

Church History

Professor: REV. T. R. MILLMAN, B.D., Ph.D.

10ax. **Early and Mediaeval Church History (to 1377):** Lectures, prescribed reading and essays; the background of Christianity; its organization; the persecutions; the controversies; the rise and growth of the Papacy; Monasticism; Christian Literature; the Orders; the Crusades; the relation of the Church to political, social and economic movements.
3 hours a week: 1½ credits.

40x. **History of the Church in England (to 1603):** The people's faith in the 14th century; the Renaissance, and the Reformation; documents and source material. Lectures, essays and prescribed readings.
2 hours a week: 2 credits.

Homiletics

Professor: RIGHT REV. W. T. HALLAM, M.A., D.D., LL.D.

Lecturer: ALICE L. I. GRAVES.

19x. **The Principles of Public Speaking.** 1 hour a week: 1 credit.

29x. **Advanced Studies** in Reading the Liturgy and in Sermon Preparation: study of selected "Lyman Beecher Lectures on Preaching", preparation and delivery of sermons. 1 hour a week: 1 credit.

New Testament

Professor: REV. R. K. HARRISON, B.A., B.D., M.Th.

Instructor: RIGHT REV. W. T. HALLAM, M.A., D.D., LL.D.

The English Bible is the text-book in all these courses.

11x. **History of New Testament Times:** A survey of the Graeco-Roman world, its political, social and religious condition at the time of the origin of Christianity. Particular reference to Judaism, apocalyptic and Jewish history, 175 B.C. to 70 A.D. 1 hour a week: 1 credit.

21x. **Synoptic Gospels and the Acts of the Apostles:** Special study of the Life and Teaching of Jesus. 1 hour a week: 1 credit.

31x. **The Life of St. Paul:** And earlier Pauline Epistles.
1 hour a week: 1 credit.

41x. **The Johannine Writings:** and the Catholic Epistles.
1 hour a week: 1 credit

Old Testament

Professor: REV. R. K. HARRISON, B.D., M.Th.

Instructor: REV. M. B. PARKER, M.A., B.D.

The English Bible is the text-book in all these courses.

10x. **Old Testament, Background and History:** The geography of Palestine, and the history of the Hebrew people from Abraham to the Grecian period. The growth of the Sacred writings, religious customs and worship. 1 hour a week: 1 credit.

20x. **Books of the Law, and Historical Writings:** A study of the books of the Pentateuch; a more detailed study of Hebrew sacred history from the books Joshua to Esther. 1 hour a week: 1 credit.

30x. **The Prophets and Their Message:** An interpretation of the lives and teachings of the Literary Prophets. 1 hour a week: 1 credit.

40x. **Old Testament Poetry and Philosophy:** A study of the Psalms and other poetical books; Job, Ecclesiastes, Proverbs.

1 hour a week: 1 credit.

MUSIC TEACHERS COLLEGE

(London, Ontario)

(Founded and affiliated in 1945)

Principal

HARVEY ROBB

Registrar

MRS. E. THOMAS, B.A.

For Officers of Instruction, see pp. 137-149.

GENERAL COURSE WITH MUSIC OPTIONS

(leading to the degree of B.A.)

Requirements for Admission: Grade XII (Secondary School Graduation, General Course with three options, see p. 12 of the Arts and Science Announcement), and satisfactory results in audition tests.

This course offers two options: Music C or Music T. Music C is a performer's course, while Music T is a pedagogical course for private teachers and for the teaching of music in elementary and secondary schools. Students in the Music T may major in piano and teaching, or in vocal performance and teaching, or in orchestra instrument performance and teaching.

Both courses satisfy the academic requirements for admission to the Type B (High School Assistant) Certificate of the Department of Education of Ontario. Those students who hold, in addition to the degree of Bachelor of Arts, the diploma of Music Graduate in Pedagogy (Mus. G. Paed.) will be admitted to the High School Assistants' Course, Type A, in Vocal Music, at the Ontario College of Education. Those students who do not hold this diploma will be admitted if they make application to take the Supplementary Music Option at the Ontario College of Education, to the Elementary Vocal Option, the Elementary Instrumental Option, or both, if the instructor deems them qualified for such admission.

First Year

	Credits		*Credits*
English 10, 19	4	Library Science 10	½
French 10	3	Music 15C or Music 15T	6 or 8½
German 1	3	Physical Education 10	1
Latin 10 or Math. 10, 12, 18 (any two) or Math. 11 or *Music	3		

Second Year

Requirements for Admission: First Year or Grade XIII standing, including English, French, Latin or any two papers in Mathematics, and at least Grade XII German. Students who specialize in instrumental music will take at least two foreign languages; those who specialize in vocal music will take three foreign languages.

	Credits		*Credits*
English 20	3	Italian 1 (prescribed for vocal students)	3
French 20	3	**Music 25C or Music 25T	8 or 8½
German 10	3		

*Grade VIII, Practical, and Grade II, Theory; or Grade IV, Theory.

**By the end of the Fourth Year the student will be required to attain proficiency in performance equivalent to the Licentiate. The Licentiate prepares a student to perform a complete recital in public, including major works, a concerto with orchestra or a second piano, and an example of ensemble playing. Vocalists will include in public recital major works of lieder and operatic repertoire, an example of ensemble choral work and an operatic selection either with orchestra or as the main part of an actual scene presented on the stage.

Third Year

The students who specialize in instrumental music will take at least two foreign languages; those who specialize in vocal music will take three foreign languages.

	Credits		*Credits*
English 32	3	Music **35C or ***35T	8 or 4
French 30	3	Economics 20 or Italian 10 (prescribed for vocal students)	3
German 20	3		
History 20	3		

Fourth Year

English 36	3	Music *45C or ***45T	8 or 4
French 40 or German 30	3	Economics 28 or 32 or 42 or Philosophy 30	3
History 36	3		

Music

Text-books: Western Ontario Conservatory of Music, *Book of Reference and Texts.*
Kitson, *Harmony and Counterpoint.*
Colles, *Growth of Music.*

15C. The basis of advanced technical development. Aural Training by the use of Solfeggio methods. Harmony and counterpoint of the Associate standard in the Conservatory. A cross-section of advanced repertoire of the standard of the Associate in the Conservatory. 6 credits.

15T. **Major Instrument:** Piano, voice or orchestral instruments as applied to secondary school requirements. Pedagogy: methods, repertoire, teaching clinic. History, harmony, and Solfege. 8½ credits.

25C. Elementary composition. A continuation of Solfeggio ear-training. A continuation of technical training. The study of composers and their repertoire of the later Baroque period and the Harmonic-Polyphonic writers with particular emphasis on the style of Bach and Handel and Scarlatti. 8 credits.

25T. **Major Instrument:** advanced pedagogy; history; contrapuntal harmony; Solfege. 8½ credits.

35C. Composition in more extended forms than in the second year. A continuation of Solfege. A continuation of technical training. Ensemble playing and accompaniment. The works for piano of Haydn, Mozart and Beethoven; for vocalists, the choral, operatic and song repertoire of the Classic period. A public performance approximating an hour in length. 8 credits.

35T. **Major Instrument:** performance classes and additional work in pedagogy and theory where recommended by the Principal. 4 credits.

45C. A continuation of Solfege. Ensemble playing. Concerto playing. The study of works by composers of the Nineteenth Century and some examples of modern atonal style and music based on the modern twelve-tone scale. Performance of a public recital including major works for the piano; an example of ensemble such as a trio or quartette for piano and strings,

**By the end of the Fourth Year the student will be required to attain proficiency in performance equivalent to the Licentiate. The Licentiate prepares a student to perform a complete recital in public, including major works, a concerto with orchestra or a second piano, and an example of ensemble playing. Vocalists will include in public recital major works of lieder and operatic repertoire, an example of ensemble choral work and an operatic selection either with orchestra or as the main part of an actual scene presented on the stage.

***By the end of the Fourth Year the student will be required to attain honors standing in Conservatory Associate Performer's examination and honors standing in pedagogy.

and at least one movement of a piano concerto with orchestral or second piano accompaniment. In the case of vocalists, the public recital will include major works of lieder and operatic repertoire, an example of ensemble choral work and an operatic selection either with orchestra or as the main part of an actual scene presented on the stage. 8 credits.

45T. **Major Instrument:** advanced repertoire and additional work in any department recommended by the Principal. 4 credits.

ST. PETER'S SEMINARY COLLEGE OF ARTS

(London, Ontario)

(Founded in 1912; affiliated in 1923)

Rector

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

Vice-Rector and Registrar

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

For Officers of Instruction, see pp. 137-149.

Honors Course in Philosophy

This course is open only to students of St. Peter's Seminary College of Arts; it leads to the degree of Bachelor of Arts in Honors Philosophy.

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

First Year

One year's work in any Junior Group. (Minimum: 17½ credits.)

Admission to the Sophomore Year in Honors Philosophy is subject to approval by the Registrar and the Department of Philosophy.

Second Year

	Credits		*Credits*
English 20	3	At least 3 credits of options approved by the Registrar and the Dept. of Philosophy	3
Philosophy 250x, 251x, 257x, 260x	9		
A second year foreign language	3		

Third Year

English 32 or 36 or 38	3	At least 3 credits of options approved by the Registrar and the Dept. of Philosophy	3
Philosophy 351x, 352x, 357x, 358x	11		

Fourth Year

English 32 or 36 or 38 or 49 (one not previously chosen)	3	At least 3 credits of options approved by the Registrar and the Dept. of Philosophy	3
Philosophy 450x, 451x, 452x, 457x	11		

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: 3 credits.

35x. **Survey of Mediaeval Latin:** From the death of St. Augustine to the 12th Century; lectures on Latin style and culture of the period; syntax and composition. 3 hours a week: 3 credits.

45x. **Survey of Mediaeval and Renaissance Latin:** From the 12th Century to the present; lectures on Latin style and culture; syntax and composition. 3 hours a week: 3 credits.

Philosophy

250x. **Psychology: Dynamology:** Vegetation; sensation and perception; imagination processes; instinctive action; memory work; feeling and emotion; reflex behavior; intellectual operations; deliberation; the unconscious and abnormal phenomena; the faculty theory and modern psychological research. 3 hours a week: 3 credits.

251x. **Formal Logic:** The three operations of the intellect. Conception: the idea; the term, categories and predicables; definition and division. Judgment: assertion and negation; the proposition; the conversion of propositions. Reasoning: deduction and induction; the rules, modes, and figures of syllogisms; fallacies. 2 hours a week: 2 credits.

257x. **The History of Pre-Christian Philosophy:** Philosophy in the Orient before Christ: philosophy in the west from its birth among the Ionians to its perfection in Plato and in Aristotle and then its decline; Graeco-Oriental philosophy at the time of Christ.
2 hours a week: 2 credits.

260x. **Introduction to Philosophy: Cosmology:** The meaning of philosophy; the main divisions of philosophy; a survey of certain facts of philosophy; the main divisions of philosophy; a survey of certain facts and various theories of Physics and of Chemistry; a preliminary consideration of the properties of material things; the intrinsic constitution of material substances; a critical refutation of Mechanism and of Dynamism as cosmological theories; the philosophy of quantity; quality, movement, time, space, and body; the relation of Cosmology to Physics and to Chemistry.
2 hours a week: 2 credits.

351x. **Metaphysics: Epistemology and Ontology:** (a) Problems of Knowledge; the nature and the existence of certain truth which is objective and based on evidence; the objective reality of sensation and of intellectual processes; the value of authority in obtaining knowledge; (b) problems of Being: essence and existence; the transcendental and the universal properties of being: substantial and accidental being; being in its causes and in its effects; the first principles and the analogy of being.
3 hours a week: 3 credits.

352x. **Ethics:** (a) General: the last end of man; its nature and attainment, morality of human acts; the norm of morality; law, eternal, natural and positive, in relation to morality; right reason; conscience; influence of passions on moral acts; habits; virtues; notions of right and duty; (b) Individual: special rights and duties. 3 hours a week: 3 credits.

357x. **History of Philosophy from the Time of Christ to 1600 A.D.:** Philosophy during the early ages of Christianity; Greek writers: St. Justin, Athenagoras, St. Clement, Origen; Latin writers: Tertullian, Lactantius, St. Augustine, Boethius. Arabian writers: Avicenna, Algazel, Averrhoes; Jewish writers: Avicebron, Moses Maimonides; Scholastic writers: St. Anselm, St. Bonaventure, St. Albert, St. Thomas, Duns Scotus, William of Occam, Cajetan, Suarez. 3 hours a week: 3 credits.

358x. **Social Philosophy:** Historical development of social economy to 19th century liberalism; industrial revolution, capitalism, individualism, collectivism; authoritarian and corporative state: origin and forms of civil organization and administration; social functioning of modern economic society; individual and social character of proprietorship, capital and labor; the business cycle: population, vital statistics; international trade, world peace and progress, the common good. 2 hours a week: 2 credits.

450x. **Psychology: The Nature of Man:** Man's soul and its essential qualities; the union of soul and body in man; personality; the origin and the immorality of the human soul. 2 hours a week: 2 credits.

451x. **Metaphysics: God, The Supreme Being:** The existence of God and the absurdity of atheism; the divine attributes of God and modern agnosticism; the relations of God to the world; creation, conservation, providence; the refutation of pantheism. 3 hours a week: 3 credits.

452x. **Social Ethics:** Domestic Society: the nature and conditions of marriage; chastity, guardian virtue of the family; the birth rate and birth control; woman and child in the family. Civil Society: the philosophy of the state; the relations between church and state; the community of nations. 3 hours a week: 3 credits.

457x. **History of Philosophy from the Renaissance to the Present Day:** Philosophy during the Renaissance: the revival of Platonism, of Humanism, of Scholasticism. Philosophy during the 17th and 18th centuries: the rise of Empiricism, of Idealism, of German Transcendentalism. Philosophy during the 19th and 20th centuries: the rise of Evolution, of Positivism, of Rationalism, of Pragmatism, of Communism; the revival of Thomistic Scholasticism. 3 hours a week: 3 credits.

Religious Knowledge Courses

Professor: RT. REV. 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: 1 credit.

101x. **Church History:** Lectures, prescribed reading and essays. Christian Antiquity and Mediaeval Church History, from the Birth of Christ to the year 1500 A.D. 2 hours a week: 2 credits.

200x. **Christian Doctrine:** Lectures, prescribed reading and essays. God, the Sanctifier; the Sacramental System; the Last Things. 1 hour a week: 1 credit.

201x. **Church History:** Lectures, prescribed reading and essays. The Reformation Period and Modern Church History. 2 hours a week: 2 credits.

URSULINE COLLEGE

(London, Ontario)

(Affiliated in 1919)

Dean

MOTHER M. ST. JAMES, M.A.

Registrar

MOTHER M. IGNATIUS LOYOLA, B.A.

For Officers of Instruction, see pp. 137-149.

All the courses offered in University College, and the Honors Philosophy Course as outlined for St. Peter's Seminary College of Arts, are open to students registered in Ursuline College, subject to the acceptance of the Admissions Committees. All laboratory courses in Science are taught entirely in University College.

For the outline of the four-year course in Home Economics offered jointly by Ursuline and University Colleges, see page 31. For the descriptions of Home Economics courses, see pp. 74-5.

Economics

39x. **The Family:** The family as a primary social group; a brief history of family life in Western societies; modern biological, psychological, sociological, economic and ethical views on the family; the ethical basis of family life; the form, unity and object of family life; status in the family; divorce; eugenics and birth-control; the family and the state; the family and economic organization; the training and the education of children; the Christian family. 2 hours a week: 2 credits.

Philosophy

20x. **Introduction to Philosophy:** A brief survey of the main tendencies in the history of philosophy; an examination of the ethical, logical, esthetic, religious, educational and political types of problems. 3 hours a week: 3 credits.

30x. **Basic Philosophical Literature:** As in University College. 3 hours a week: 3 credits.

33x. **Social Ethics:** Introduction to basic ethical teachings: fundamental sociological facts and concepts in a moral setting; the social problems confronting modern man. 2 hours a week: 2 credits.

37x. **History of Ancient and Mediaeval Philosophy:** The history of (1) Greek, Roman and Patristic periods, (2) Mediaeval Philosophy and Scholasticism. 2 hours a week: 2 credits.

42x. **General Ethics:** The last end of man; morality of human acts; law; right reason; conscience; habits; virtues; notions of right and duty; special rights and duties. 3 hours a week: 3 credits.

47x. **History of Modern Philosophy:** The transition from Mediaeval to Modern Philosophy; Modern Philosophy. 2 hours a week: 2 credits.

Religious Knowledge

Professor: REV. L. J. FLYNN, B.A., S.T.D., S.S.L.

Associate Professors: REV. GEORGE F. CHILDS, B.A., J.C.D.;
MOTHER M. ST. MICHAEL, M.A., Ph.D.

Instructors: MOTHER IGNATIUS LOYOLA, B.A.;
MOTHER M. ST. CATHERINE, B. A.

10x. **Motives and Means of Christian Life:** Fundamental dogmas of Christianity, grace, prayer and the sacraments. Lectures, essays, readings.
2 hours a week: 2 credits.

20x. **Christian Ideals of Life:** Charity, personal, social and civic; justice and the commandments; citizenship. Lectures, essays, readings.
2 hours a week: 2 credits.

30x. **Christ and the Church:** The governing function of the Church; the teaching and sanctifying functions of the Church; Christian apologetics.
2 hours a week: 2 credits.

31x. **History of Liturgy I:** Survey of expressions of social consciousness in worship from Apostolic to modern times. Lectures, readings, seminars. 1 hour a week: 1 credit.

40x. **Christian Morals:** The ten commandments of God; modern moral problems affecting the individual, the family and society.
2 hours a week: 2 credits.

41x. **History of Liturgy II:** Sociology of worship; primitive religious worship; the Old Testament. 1 hour a week: 1 credit.

WATERLOO COLLEGE

(*Waterloo, Ontario*)

President

REV. HELMUT T. LEHMANN, Th.D.

Dean

REV. LLOYD SCHAUS, M.A., B.D.

Dean of Women and Registrar

MARION AXFORD, B.A.

For Officers of Instruction, see pp. 137-149.

In 1925 the Faculty of Arts of Waterloo College became an affiliated college of the University of Western Ontario. In January, 1930, the right of Waterloo College to proceed with courses leading to the Honors B.A. degree was officially recognized. For information about the General and Honors courses offered by the college, and the fees for the courses, consult the Registrar. The following course is taught in Waterloo College only.

Pre-Theological General Course

This course has been approved by the Evangelical Lutheran Seminary of Canada as a prerequisite for the theological course. Pre-theological students are encouraged to substitute Honors Courses, if they desire to do so.

REQUIREMENTS FOR ADMISSION: Secondary School Graduation Diploma in required subjects (see page 12) and approval of application by the Dean of the Seminary and the Dean of the College.

Credits will be allowed for certificates in Grade XIII subjects as specified under "Advanced Standing", page 13.

Courses numbered (x) *e.g.* Greek 25x, are given in the Theological Seminary by Seminary professors but are allowed for credit toward the University degree.

JUNIOR GROUP

	Credits		*Credits*
English 10, 19, 20	3	Economics 20	3
Library Science 10a	½	*History 14 or 20	3
Math. 10, 12, 18 (any two) or Latin 10	3	**Greek 1 or 10	3
Physics 11 or Zoology 11	3	**German 1 or 10 or French 10 or Latin 10	3
Physical Education 10	1	German 10 or 20 or French 20 or Latin 20	3
Psychology 20	3		

SENIOR GROUP

Philosophy 30	3	9 credits of options from:	
Geography 20 or Physics 11 or Zoology 11	3	Economics 28 English 29 Hebrew 1x Latin 26x (Ecclesiastical) Philosophy 31, 42, 43 Psychology 36, 46, 48x, 49x Religious Knowledge 21x, 22x, 23x, 24x	9
English 32, 36, 38, 49 (any two)	6		
History 20, 31, 33a, 44, 36 (any six credits	6		
Greek 25x and 35x	6		

For those courses which University College and Waterloo College offer in common, see the University College section. The following courses are offered in Waterloo College only:

Biblical Literature: (see Religious Knowledge).

Business Administration

457b. **Introduction to Insurance, Estates, and Trusts:** The course is survey in nature and purpose and will deal with the following topics: history and elemental principles of insurance; fire insurance; automobile insurance; casualty insurance; inland marine insurance; plans of life insurance and general policy provisions; the mortality table and the reserve; dividends and cash surrender values; beneficiaries; settlement options and annuities; agency organization; head office organization; insurance law and government regulation; history, principles and practices of trust companies; "fiduciary" capacities of trust companies and legislative acts affecting them; estates planning, wills, and estates administration; security analysis and investment; mortgages as investments for financial institutions. The lectures will be given by officials from the head offices of the companies participating in the program. 2 hours a week: 1 credit.

*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.

Chemistry

11xN. Basic inorganic and organic chemistry, with stress placed on application to physiology and pharmacology. Lectures and laboratory exercises. 3 hours a week: 2 credits.

Fine Arts

20. **Introduction to Fine Art:** A general survey of the development of Art; architecture, sculpture and painting from Ancient to Modern; art criticism and theory; art in the community; art appreciation. Lectures illustrated with slides, motion-pictures and coloured reproductions. Studio periods for experiments in drawing and painting.
2 hours a week: 1½ credits.

30. **Advanced Art:** Designed to carry students a year beyond Art 20. History of Art; art criticism and theory; art in the community; art appreciation; lectures illustrated with slides, motion-pictures and coloured reproductions. Studio periods for experiments in drawing and painting.
2 hours a week: 1½ credits.

Greek

For Biblical Greek 25x and 35x, see 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: 3 credits.

Latin

26x. **Ecclesiastical Latin:** A study of selections from the Confessional writings of the Evangelical Lutheran Church as contained in the *Book of Concord.* 1 hour a week: 1 credit.

Music

55x. **Church Music:** A study of the development of music in the worship of the Christian Church. 1 hour a week: 1 credit.

Psychology

46x. **Industrial Psychology:** The industrial plant as a social community; the Hawthorne researches; the use of psychological tests in employee selection and placement; time and motion studies; job analysis and job training; the measurement of proficiency; fatigue, accidents, and the work environment; employee attitudes and morale; the work of the industrial counselor. 3 hours a week: 3 credits.

48x. **Abnormal:** A consideration of abnormal activities in sensation, perception, memory, emotion, thought and behaviour; 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.
3 hours a week: 3 credits.

49x. **Social Psychology:** The activities of living things 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.
3 hours a week: 3 credits.

Religious Knowledge

21x. **Biblical Literature:** A study of the times, life, and teachings of Jesus based on the Gospels. 1 hour a week: 1 credit.

22x. **Biblical Literature:** A study of the foundation and work of the early Christian Church, with special attention to the Acts and to the life and letters of Paul. 1 hour a week: 1 credit.

23x. **Biblical Literature:** A study of Old Testament history. 1 hour a week: 1 credit.

24x. **Biblical Literature:** A study of the lives and teachings of the Hebrew Prophets. 1 hour a week: 1 credit.

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 March 1st.

(iii) The Atkinson Charitable Foundation Bursaries

Seven bursaries of $350 each, tenable for one year at the University of Western Ontario, to be awarded on the basis of academic sincerity and financial need.

1. An applicant must be a resident of Ontario.
2. He must register as a Freshman in University College of this University. (Prospective students in Business Administration, Medicine, Nursing and Theology, as well as Arts and Science students, all take their preliminary work in University College.)
3. He must present Grade XIII certificates with an average of at least 66 per cent. in those subjects which are prerequisites for the course in which he proposes to register.
4. Applications should be sent to Mr. T. L. Hoskin, Secretary of the Student Loans and Bursaries Committee of the University of Western Ontario, by May 1st.

5. Applications should be accompanied by academic and character recommendations from the Principal of the candidate's High School, and by a declaration of financial need.

6. Awards will be announced soon after the publication of the Grade XIII examination results.

7. Payment of the bursaries will be made on October 15th, after the candidates have completed registration as full-time students in the University.

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 1952.

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).

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

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

(a) English, Mathematics (any two) and two other papers;

(b) English, French and German or Greek or Latin or Spanish;

(c) French, two of German, Greek, Latin, Spanish;

(d) Mathematics (Algebra, Geometry, Trigonometry), Physics and two other papers;

(e) Physics, Chemistry, Mathematics (any two) and two other papers;

(f) Biology, Mathematics (any two) and two other papers;

(g) Latin, French and German or Greek or Spanish;

(h) English, History, French or German or Greek or Latin or Spanish and one other paper.

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

III. **Scholarships of Free Tuition** (up to $125.00 a year) for two years, for competition in each Collegiate Institute, Vocational School and High School whether Commercial, Agricultural or Academic, in the counties named in the University of Western Ontario Act, 1923, *viz.*: Essex, Kent, Elgin, Norfolk, Brant, Oxford, Middlesex, Lambton, Huron, Bruce, Grey, Perth, Wellington and Waterloo; and all the cities situated therein. The successful candidates must have an average of at least First Class Honors (75 per cent.) in eight papers of the examination written in June of the year of the award, and chosen from the following subjects: English, German, Greek, French, History, Latin, Mathematics, Spanish, Botany, Zoology, Physics, Chemistry: total value of each scholarship, $250.00.

IV. **Scholarship of Free Tuition** (up to $125.00) for one year for proficiency in single subjects:*
(a) Latin; (b) Greek; (c) English; (d) Mathematics (Algebra Geometry, Trigonometry); (e) French; (f) German; (g) Biology; (h) Physics and Chemistry.

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. The winner will receive $50 in cash and $150 in tuition for one year; total value of scholarship, $200.

(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.

*To qualify for one of these Scholarships a candidate must obtain an average of 75 per cent. in six papers; no Scholarship in Section IV is obtainable by reversion.

III. Undergraduate

UNIVERSITY

University Gold Medals for competition in the final year of these Honors Courses offered by University College of Arts and Science:

Botany;
Business and Secretarial Science;
Chemistry;
Chemistry and Physics;
Classics;
Economic and Political Science;
English;
English and French;
English and Latin;
English and Philosophy;
French and Latin;
Geography;
Geology;
History;
Journalism;
Modern Languages;
Philosophy;
Physical and Health Education;
Physics and Mathematics;
Psychology;
Radio Physics and Mathematics;
Social Science;
Zoology.

Governor-General's Medal: Senior Group, General Course.

The Joseph J. and Annie R. Kingston Gold Medal: final year Mathematics, University College.
(Endowed by Dean H. R. Kingston in memory of his parents.)

The London Life Insurance Company Gold Medal: final year Actuarial Mathematics, University College.

Ursuline College of Arts Gold Medal: fourth year Home Economics.

UNIVERSITY COLLEGE

Except in the case of fourth year awards, these Scholarships and Prizes will be paid only to students who are in actual attendance and carrying a full year's work in the University during the year following the award. Payment is made on October 15th and February 15th.

Unless otherwise indicated, the Scholarships and Prizes available in University College are provided by the Board of Governors of the University.

Scholarships: Fifty dollars each, for general proficiency in the following:

(a) Junior Group 1.

(b) Junior Group 2: the F. G. Jewell Scholarship.
(Given in memory of the late Francis G. Jewell, C.A., former Auditor of the University.)

(c) Junior Group 3: the W. J. Roche Scholarship.
(In honor of the late Hon. W. J. Roche, M.D., LL.D., C.M.G., former Chancellor of the University.)

(d) Junior Group 4: the B'Nai Brith Scholarship.
(Given each year by the London Branch of the Order.)

(e) General Science: the third year of the General Science Course.

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

SECOND YEAR HONORS COURSES:

Business and Secretarial Science;
Chemistry and Physics;
Classics;
English and French;
English and Latin;
English and Philosophy;
French and Latin;
Geology;
Journalism;
Modern Languages;
Philosophy;
Physical and Health Education;
Psychology.

THIRD YEAR HONORS COURSES:

Business and Secretarial Science;
Chemistry and Physics;
Classics;
English and Latin;
English and Philosophy;
French and Latin;
General Science;
Geology;
History (1952-53);
Modern Languages;
Philosophy;
Psychology.

The Hon. Edward Blake Scholarship, No. 1: Sixty dollars; for Honors Economic and Political Science, Second Year. Offered in 1953-54.

The Hon. Edward Blake Scholarship, No. 2: Sixty dollars; for Honors Economic and Political Science, Third Year. Offered in 1953-54.

(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 1952-53.

The Andrew Grant Scholarship, No. 2: Sixty dollars; for Honors Economic and Political Science, Third Year. Offered in 1952-53.

The Andrew Grant Scholarship, No. 3: Sixty dollars; for Honors Social Science, Second Year.

The Andrew Grant Scholarship, No. 4: Sixty dollars, for Honors Social Science, Third Year.

(These Scholarships were bequeathed to the University by Mrs. Grant as a memorial to her husband, Mr. Andrew Grant, St. Thomas.)

The John Gordon McIntosh Scholarship, No. 1: Sixty dollars for Honors Mathematics and Physics, Second Year.

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

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

The Wilhelmina and J. Gordon McIntosh Scholarship, No. 1: 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 Scholarship, No. 3: Sixty dollars; for Honors Geography, Second Year.

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

The Wilhelmina and J. Gordon McIntosh Junior Fellowship in Geography: One hundred and eighty dollars; to be held in the Fourth Year, on recommendation of the Geography Department.

(These Scholarships and Fellowships 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 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 stands highest in any year of any regular course in the University. These scholarships can be held only once by any student: an award won a second time reverts to the student coming next in order of merit.

(These Scholarships were voted by the County Council of Bruce County in June, 1945.)

Elgin County Scholarships: Two, one hundred dollars each, one for the man, one for the woman, from Elgin County (excluding the City of

St. Thomas) who stands highest in any year of any regular course in the University.

(These Scholarships were voted by the County Council of Elgin County in 1947.)

Huron County Scholarships: Two, one hundred dollars each, one for the man, one for the woman, from Huron County who stands highest in any year of any regular course in the University.

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.

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 a basis of satisfactory academic standing and some financial need, by a committee consisting of the Dean of Women, the Registrar, and a woman member of the Faculty who is not a graduate of this University. Application should be made to the Dean of Women or the Registrar before October 1st.

(This award is made annually by the University Women's Club of London.)

I. O. D. E. (Municipal Chapter) Bursary: Sixty dollars; awarded in the autumn to the student registered in the Zoology option who stood highest in Third Year Honors Biology during the preceding session and who gives indication of looking forward to work in Applied Biology or Entomology. The bursary may be awarded, under special circumstances, to a student approximating these conditions.

I. O. D. E. (William E. Saunders Chapter) Bursary: One hundred dollars; awarded in the autumn to the student registered in the Botany option who stood highest in Third Year Honors Biology during the preceding session. The bursary may be awarded, under special circumstances, to a student registered in a course other than Botany.

I. O. D. E. (Dr. John Dearness Chapter) Bursary: Seventy-five dollars; awarded annually to the student with the highest standing in the Mycology of the Fourth Year of the Honors Biology course.

I. O. D. E. (London Air Force Chapter) Bursary: Seventy-five dollars; awarded annually to the student with the highest standing in the Radio Physics option of the Third Year of the Honors course in Mathematics and Physics.

I. O. D. E. (Nina Moore Jamieson Chapter) Bursary: One hundred dollars; awarded annually to the student with the highest standing in the Third Year of the Honors course in English and French.

I. O. D. E. (Lord Roberts Chapter) Bursary: One hundred dollars; awarded annually to a woman student enrolled in the final year of the Medical Course or in the Public Health Option of the degree course in Nursing; applications must reach the Registrar before October 1st each year.

I. O. D. E. (The Colonel William Gartshore Chapter) Bursary: One hundred dollars; awarded by the Scholarship Committee to a student in the Humanities.

I. O. D. E. (The Princess Patricia Chapter) Bursary: One hundred dollars; awarded by the Scholarship Committee to a student in the Social Sciences.

I. O. D. E. (The Sir George Ross Chapter) Bursary: One hundred 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.

Kappa Tau Sigma Fraternity Awards: Two prizes of twenty-five dollars each, for the Second and Third Year student in any Honors course in Mathematics or Science whom the Scholarship Committee may select. High academic standing and participation in recognized campus activities are to be the basis of selection. The same student may not receive this award twice.

Khaki University and Y.M.C.A. Scholarship: Sixty dollars; for the highest average obtained by an ex-service man or woman, or the son or daughter of an ex-service man or woman, in any year of any course in University College of Arts and Science.

Sir Wilfrid Laurier Memorial Scholarships: Two scholarships, one elementary ($30.00) and one advanced ($50.00); awarded annually for proficiency in French conversation; open only to Canadian-born English-speaking students, or the sons and daughters of naturalized British subjects not of French parentage.

(The capital fund of these Scholarships 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 1953-54.

(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 1953-54.

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

Legation of Switzerland: Book prizes to students in modern languages, on recommendation of the Departments of Romance Languages and German.

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

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

Canadian Industries, Limited, Prize: Twenty-five dollars in books to be awarded to the student with the highest standing in the Honors Chemistry 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.

W. Sherwood Fox Scholarship: Fifty dollars.

Lachapelle Scholarship: Fifty dollars.

Nichol Scholarship: Fifty dollars.

1952 Summer School Prizes, University College

The Helen M. Benson Prize: Fifteen dollars; English 20.
(Endowed by Mr. T. C. Benson.)

The Canadian Congress of Labor Prizes (London Labor Council):
First—Fifteen dollars; English 32.
Second—Ten dollars; English 20.

The Clara Long Mara Prizes: Ten dollars each; Economics 20, English 36.

The Thomas Albert Mara Prizes: Ten dollars each; History 20, Philosophy 30.

The W. L. Mara Prizes: Ten dollars each; Economics 42a, German 1, History 36, Physics 11, Psychology 20, Psychology 39.
(Donated by Mr. W. L. Mara.)

The Wilhelmina and J. Gordon McIntosh Prizes: Thirty dollars each; Geography 20, Geography 40.

The Wilhelmina and J. Gordon McIntosh Prizes: Public Speaking (English 19): First—Thirty dollars; Second—Twenty dollars; Third—Fifteen dollars.

The Dr. W. E. Saunders Prize: Fifteen dollars; Zoology 23 (Biological Field Studies).
(Donated by Mrs. F. H. Fetherston.)

IV. Bursaries for Graduates and Undergraduates.

Dominion-Provincial Student-Aid Bursaries, Type B.

Applications will be considered from students who have not had a total of four Type B Bursaries in previous assistance, and who are enrolled in full-time courses, provided that the applicant has been enrolled for at least one year in his course of study and is proceeding towards a degree other than a degree in Divinity. He must have obtained an average of Second Class standing (or its equivalent) on the last series of examinations held immediately prior to the filing of the application, and he must not be repeating a year in the same or another course or faculty, unless the previous course was a prerequisite for admission to the present course.

V. Graduate Fellowships and Scholarships.

The fellowships and scholarships described in detail below are those which pertain mainly to this University (they are endowed by it or tenable only on this campus, or tenable elsewhere by its graduates only):

The J. William Horsey Fellowships

Three Fellowships of $500 each, for research in Food Distribution; open to graduates in Business Administration of the University of Western Ontario or of any Commerce course of equivalent standard in the Dominion of Canada. Applications should be submitted to the Dean of Graduate Studies, not later than May 1st of the year of award. Application forms and information are obtainable from the Dean of the School of Business Administration of the University of Western Ontario.

(These Fellowships are donated by Dominion Stores Ltd. by and through the president, Mr. J. W. Horsey.)

C.O.T.C. Memorial Fellowship

Graduate Fellowship in Military Economics, Military Geography or Military History. Value $800. Applications are to be submitted to the Dean of Graduate Studies by May 1st.

(This Fellowship is donated by the University of Western Ontario C.O.T.C. Contingent.)

Fellowship of Canadian Industries Limited

Graduate Fellowship in Chemistry, value $1,000 a year; open to any British subject who is a graduate of a recognized university; for research in Chemistry at the University of Western Ontario. Applications should be submitted to the Dean of Graduate Studies not later than May 1st.

Sir Arthur Currie Memorial Scholarship

Graduate Fellowship in the Social Sciences, preferably in some branch of Economics, value $500 a year; open to graduates of any Canadian University; tenable at this University unless the winner is a graduate of this University, in which case the award will be tenable at this or any other Canadian or British University designated by the winner. Applications should be submitted to the Dean of Graduate Studies not later than May 1st.

University of London Fellowship

Graduate Fellowship in Arts, Economics, Medicine or Science, value $2,000 a year; open to graduates of the University of London; tenable at the University of Western Ontario; renewable for one year. For additional terms and application, apply to the Academic Registrar, University of London, Senate House, London, W. C. 1, before March 1st.

The Wilhelmina and J. Gordon McIntosh Fellowship

Graduate Fellowship in Business Administration, value $300; to be awarded for general proficiency in the fourth year of Honors Business Administration and held in the first year of graduate study at this University's School of Business Administration; open only to graduates of this University.

Fellowship of the Student Christian Movement of Canada

University of Western Ontario Unit

Graduate Fellowship in any field available in the Faculty of Graduate Studies at this University; value $900 a year, tenable for two years at the discretion of the S.C.M. Advisory Board and the Dean of the Faculty of Graduate Studies. Applicants must be candidates for an advanced degree and must show evidence of participation as undergraduates in S.C.M. activities.

Other Graduate Fellowships and Scholarships

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.**

Among the most renowned fellowships and scholarships offered in Canada are those of the Agricultural Institute of Canada, the Canadian Federation of University Women, the J. W. Dafoe Foundation, the Defence Research Board, the Humanities Research Council, the Hudson's Bay Company, Imperial Oil Limited, the Imperial Order Daughters of the Empire (Overseas Scholarship), the National Research Council of Canada, the Princess Alice Foundation, the Research Council of Ontario, the Rhodes Scholarship Trust, the Royal Society of Canada, and the Social Science Research Council, in addition to those offered by the Universities of Canada.

Among the most renowned awards offered in Great Britain and open to graduates of Canadian Universities are The 1851 Exhibition (Science Research Scholarship); the Beit Fellowships for Medical and Scientific Research; the British Council Scholarships; the Nuffield Foundation Fellowships, Scholarships and Bursaries; and the Royal Society Smithson Research Fellowship.

The UNESCO Handbook gives comprehensive lists of fellowships and scholarships available in the United States and abroad.

Detailed information about all these awards is always available in the Registrar's Office and is posted on the bulletin boards from time to time as announcements concerning them reach the University.

Military Studies

Students (men) 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 Reserve Squadron. Suitable candidates in each Service may be selected and trained for commissioned rank.

One academic credit in Military Studies may be earned by taking training in one of these divisions, to count towards a degree in Senior Group B of the General Course in Arts.

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).

The course consists of sixty hours training during the academic year, for three years, and fourteen weeks training ashore and afloat for two summers. Cadets may volunteer for additional service. Students enter as Probationary Cadets and in their first year appear before a Cadet Selection Board for promotion to the rank of Cadet. Final year students who select Naval Service as a career, may apply for their Commissions, and, if accepted, they will receive full pay and allowances, tuition, instruments and books.

Pay is at the rate of $170.00 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 thirty-two 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.

Information and application forms are available in the U.N.T.D. office, 113 Thames Hall, University of Western Ontario, and from the Commanding Officer, U.N.T.D., Assumption College, Windsor, Ontario.

Canadian Officers' Training Corps

1. Canadian Officers' Training Corps offers undergraduates a unique opportunity to qualify themselves for commissions in the Canadian Army, either Active or Reserve, through a training program especially designed to meet their requirements.

2. Students are eligible who are:
   (a) British subjects 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) Theoretical training during the academic year:
      (i) First year — 20 hours of introductory lectures and films.
      (ii) Second and third years — 40 hours of lectures on military subjects each year.
   (b) Twelve to twenty weeks of practical training during the summer, depending upon length of vacation period and candidate's choice. Training will be as follows:
      (i) First and second years — at Corps Schools of the Canadian Army Active Force.
      (ii) Third year — practical leadership in charge of a troop, section or detachment at an Active Force Unit or camp.
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 ($170.00 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 20 weeks.
5. The commanding officer is Lt.-Col. J. J. Talman. Candidates should apply to the following officers:

   University College: Capt. J. F. Taylor, Resident Staff Officer, Room 117, Thames Hall; Major R. N. Shervill or Captain A. G. Bogue.

   Medical School: Major J. A. Stevenson.

   Assumption College: Major G. R. Horne.

   Waterloo College: Major A. E. Raymond.

Students who wish to apply for COTC training should see one of the above officers before November 1st, 1952.

R.C.A.F. University Reserve Squadron

1. The U.R.S. offers undergraduate men the opportunity of qualifying for commissions as Flying Officer in the R.C.A.F. Regular, Reserve or Supplementary Reserve Forces.
2. Students admitted to the U.R.S. are appointed in the rank of Flight Cadet and hold that rank until they are commissioned as Pilot Officers at the end of the second summer of training. On graduation they are promoted to Flying Officer. As Flight Cadets and as Pilot Officers they are paid at the rate of $170.00 a month during the summer months, and

five days' pay for attendance at U.R.S. winter lectures, during the first year of training, increasing to ten days for each of the succeeding years. Those accepted for aircrew training will receive an extra $30.00 a month while undergoing actual flying training.

3. Eligibility requirements for applicants are as follows:
   (a) Students must be Canadian citizens or British subjects between the ages of 18 and 35.
   (b) They must meet the physical standards required in the R.C.A.F. Regular Force.
   (c) They must be registered in the first year of a proposed four-year course or the second of a five-year course.

4. Training will include three summer courses with a maximum of 22 weeks each at one of the R.C.A.F. stations, plus a total of 65 hours of lectures on the campus during the three academic years. Aircrew training will be available for a few selected applicants, but, for the most part, summer training will be along the lines for which the cadet is best suited by education, experience and interest.

5. The Commanding Officer of the U.R.S. is S/L M. H. M. MacKinnon. Information and application forms are available from the Resident Staff Officer in Room 112 in Thames Hall.

OFFICERS OF INSTRUCTION

Session 1951-1952

(The year of first appointment to University Staff is given. "A" in brackets after name indicates the staff of Assumption College; "B", the staff of the School of Business Administration; "C", the staff of University College; "H", the staff of Huron College; "M", the staff of Music Teachers' College or the Conservatory of Music; "P", the staff of St. Peter's Seminary College of Arts; "U", the staff of Ursuline College; "W", the staff of Waterloo College. Alma College is designated by its whole name. Unless otherwise indicated the degrees have been granted by the University of Western Ontario.)

TULLIO ANGELO ALESSI (A), *Associate Professor of Physics*
B.A., 1945; M.Sc., Wayne, 1947. 1945

RAY LEROI ALLEN (C), *Professor of Physics*
B.A., Mt. Allison, 1917; M.A., *ibid.*, 1919. 1921

RONALD ALEXANDER ALLEN (C), *Lecturer in German*
B.A., Toronto, 1921; M.A., *ibid.*, 1922; Ph.D., Chicago, 1928; Associate Dean of Arts and Science, 1949; Dean of Graduate Studies, 1950; University Vice-President, 1950. 1923

SISTER ALOYSIUS MARY (A), *Assistant Professor of English*
B.Ph., Loyola (Chicago), 1934; M.A., De Paul, 1937; B.L.S., Catholic Univ. of America, 1943; Dean of Holy Names College, 1950. 1940

WILLIAM ERIC DUNCAN ATKINSON (C), *Lecturer in English*
B.A., Cambridge, 1938. 1945

WALTER BALDERSTON (C), *Associate Professor of History*
B.A., Cornell, 1935; Ph.D., *ibid.*, 1941. 1945

TOMAS BARTROLI (C), *Instructor in Romance Languages*
Cert. superieur d'Etudes Francaises, Toulouse, 1940. 1951

HELEN IRENE BATTLE (C), *Professor of Zoology*
B.A., 1923; M.A., 1924; Ph.D., Toronto, 1928; F.A.A.A.S., 1933. 1924

CHRISTOPHER JOHN BITTNER (C), *Associate Professor of Economics*
B.A., Valparaiso, 1916; M.A., Iowa, 1924; Ph.D., *ibid.*, 1932. 1938

HAROLD NEIL BLACKWELL (C), *Instructor in Psychology*
B.A., 1950; M.A., 1951. 1951

JOHN HENRY BLACKWELL (C), *Lecturer in Physics*
B.Sc., Melbourne, 1941; M.Sc., 1947. 1947

ALLAN GEORGE BOGUE (C), *Lecturer in Economics and History*
Assistant Librarian
B.A., 1943; M.A., 1946; Ph.D., Cornell, 1951. 1949

MOTHER M. BONAVENTURE (U), *Instructor in English and Latin*
B.A., Queen's, 1917; M.A., 1923. 1923

ERIC BRANNEN (C), *Assistant Professor of Physics*
B.A., Toronto, 1944; *ibid.*, 1946; Ph.D., McGill, 1948. 1949

ANTHONY WILLIAM ALDRIDGE BROWN (C), *Professor of Zoology*
B.Sc.F., Toronto, 1933; M.A., *ibid.*, 1935; Ph.D., *ibid.*, 1936; M.B.E., 1946. 1947

GEORGE E. BUCKLEY (C), *Assistant Professor of English*
B.A., Mt. Allison, 1937; M.A., Columbia, 1942. 1946

JAMES WENDEL BURNS (C), *Professor of Organic Chemistry*
B.Sc., New Brunswick, 1916; M.Sc., Queen's, 1921; F.C.I.C., 1924. 1922

CATHERINE CAMPBELL (C), *Lecturer in Library Science*
B.A., 1922. 1923

CHARLES MURRAY CARMICHAEL (W), *Assistant Professor of Science*
Lecturer in Mathematics
B.Sc., 1945; M.Sc., 1947. 1947

JEAN ELLIOT CARMICHAEL (C), *Lecturer in Physical, Health, and Recreation Education*
B.A., Queen's, 1943; B.P.H.E., Toronto, 1946; M.A., Columbia, 1948. 1950

ELAINE WOODROW CHAPMAN (MRS. C. B.) (C), *Lecturer in Secretarial Science*
B.A., 1932. 1945

REV. GEORGE FRANCIS CHILDS (U), *Associate Professor of Religious Knowledge*
B.A., 1932; J.C.B., Catholic Univ. of America, 1937; J.C.L., Angelicum, Rome, 1938. 1939

JAMES MCNAB CLARK (W), *Assistant Professor of English*
B.A., Manitoba, 1941; M.A., *ibid.*, 1942. 1948

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B.A., 1936; M.A., Wisconsin, 1937; Ph.D., *ibid.*, 1940. 1940

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L. ès L., Toulouse, 1922; M.A., 1925. 1923

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B.A., 1941; M.A., 1947; A.M., Harvard, 1948; Ph.D., *ibid.*, 1951; D.S.O., 1945; *Croix de Guerre avec Etoile de Vermeil*, 1946. 1946

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B.D., London, 1943; M.Th., *ibid.*, 1947. 1949

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B.A., Toronto, 1931; M.A., Catholic Univ. of America, 1937. 1941

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B.A., 1930. 1942

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B.A., 1927; M.A., Toronto, 1941. 1931

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STANLEY NANTAIS (A), *Instructor in Physical Education*
1943

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MOST REV. CHARLES LEO NELLIGAN (A), *Associate Professor of History*
Associate Professor of French
B.A., Laval, 1926; D.D. 1947

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B.Sc., London, 1945; Ph.D., *ibid.*, 1951; A.R.C.S., 1945. 1948

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B.A., 1923; M.A., Houston, 1942. 1946

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M.A., Lwow, 1929; LL.D., *ibid.*, 1932. 1950

VERY REV. JOHN HENRY O'LOANE (A), *Associate Professor of Religious Knowledge*
B.A., Toronto, 1918; M.A., Columbia, 1931; President, Assumption College, 1946. 1924

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B.A., 1928; B.D., 1936; M.A., 1943; D.D., 1945; Principal, Huron College, 1943. 1941

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B.A., Toronto, 1938; M.A., Detroit, 1944. 1950

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B.A., 1942. 1950

ROBERT EDWARD KINGSDOWN PEMBERTON (C), *Professor of Classics Lecturer in History*
M.A., Oxon, 1922. 1926

BROTHER ROGER PHILIP (C), *Visiting Professor of Psychology*
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B.A., Minnesota, 1934; M.A., *ibid.*, 1936; Ph.D., *ibid.*, 1939. 1938

CLIFFORD POOLE (M), *Lecturer in Music Professor in Music Teachers' College*
1949

MARGARET PARSONS POOLE (M), *Lecturer in Music Professor in Music Teachers' College*
1949

ALEXANDER OBERLANDER POTTER (W), *Professor of History and Political Science*
B.Sc., Gettysburg, 1919; M.A., *ibid.*, 1920; Ph.D., Columbia, 1922. 1925

REV. HENRI POUILLON (A), *Visiting Professor of Philosophy*
Ph.L., Louvain, 1930; Ph.D., *ibid.*, 1935.

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B.A., 1943; Ph.L., Laval, 1949. 1949

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Sessional and Part-time Appointments

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B.F.A., Yale, 1947; M.F.A., *ibid.*, 1949. 1950

WINNIFRED ELVY BENO (B), *Lecturer in Business Administration*
B.A., 1949. 1947

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B.A., 1948; Business Administrator of Waterloo College, 1950. 1950

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RANDOLPH JOHN CHURCHILL (C), *Lecturer in Journalism*
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D.P.E., Harvard, 1931; M.D.C.M., Queen's, 1939. 1948

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CHARLES R. ENGEL (C), *Honorary Lecturer in Chemistry*
Chem. Ing., Zurich, 1947; D.Sc., *ibid.*, 1951. 1951

MARGARET MARY FLOOD (MRS.) (A), *Instructor in Physical Education*
B.A., 1939; M.A., 1941. 1941

ARTHUR RUTHERFORD FORD (C), *Lecturer in Journalism*
B.A., Toronto, 1903; LL.D., *ibid.*, 1949; Chancellor of the University, 1946. 1946

LORNE GILES FOX (A), *Instructor in English*
B.A., 1951. 1951

COLLEEN O'HARA GILDNER (MRS. EARL) (W), *Lecturer in Spanish*
B.A., Toronto, 1947. 1947

DELTON JOHN GLEBE (W), *Lecturer in Greek*
B.A., 1947. 1950

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

BERNICE HARPER (U), *Instructor in Physical Education*
1947

OTTO WILLIAM HEICK (W), *Lecturer in German*
A.B., Wittenberg, 1925; B.D., Hamma Divinity School, 1926; A.M., Nebraska, 1927; Ph.D., *ibid.*, 1932; D.D., Wittenberg, 1949. 1947

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

JOHN K. JOHANNESEN (C), *Instructor in Plant Culture*
Diploma, Royal Agriculture College (Copenhagen), 1930. 1950

EILEEN LORETTO KELLY (A), *Instructor in Romance Languages*
B.A., 1945; M.A., Michigan, 1950. 1951

WILLIAM KENNEDY (A), *Instructor in Geography*
B.A., 1948. 1949

PAUL KRAUEL (W), *Lecturer in Business Administration*
C.A., Ont., 1949. 1951

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A.O.C.A., Toronto, 1951. 1951

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B.A., Toronto, 1896; Ph.D., Bryn Mawr, 1901; D.Sc., Toronto, 1927. 1945

REV. HELMUT T. LEHMANN (W), *Lecturer in Religious Knowledge*
B.A., Saskatchewan, 1937; Th.D., Erlangen, 1939; President, Waterloo College, 1944. 1944

REV. ULRICH LEUPOLD (W), *Director of Music and Lecturer in Religious Knowledge*
Ph.D., Berlin, 1932. 1945

DORIS IRENE LEWIS (MRS. M. E.) (W), *Lecturer in Library Science*
B.A., Toronto, 1933. 1949

DORIS LIDDICOATT (C), *Instructor in English*
B.A., 1915; M.A., 1916. 1925

NORMAN LINDSAY (C), *Lecturer in Physical, Health, and Recreation Education*
B.S.A., Toronto, 1931. 1951

ELEANOR LUCY (C), *Lecturer in Library Science*
B.A., 1949; M.S., Columbia, 1951. 1951

RALPH ANTONY LUDWIG (C), *Honorary Lecturer in Botany*
B.S.A., Alberta, 1937; M.Sc., *ibid.*, 1939; Ph.D., McGill, 1947. 1951

HUBERT MARTIN (C), *Honorary Professor of Chemistry*
B.Sc., London, 1920; M.Sc., *ibid.*, 1926; D.Sc., *ibid.*, 1934; A.R.C.S., F.R.I.C. 1951

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B.A., 1928. 1949

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B.A., Sask., 1940; B.L.S., McGill, 1948. 1951

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

ALAN CAMERON MENZIES (W), *Lecturer in Physical Education*
1947

WILLIAM HAROLD MINSHALL (C), *Honorary Lecturer in Botany*
B.S.A., Toronto, 1933; M.Sc., McGill, 1938; Ph.D., *ibid.*, 1941. 1951

ELLA MARGARET MODERWELL (C), *Lecturer in Library Science*
B.A., 1944. 1945

HECTOR ALEXANDER URQUHART MONRO (C), *Honorary Lecturer in Zoology*
B.Sc., (Agric.), McGill, 1933; M.Sc., *ibid.*, 1935. 1951

CAROLYN MORDEN (W), *Lecturer in Physical Education*
B.P.H.E., Queens, 1951. 1951

IRENE VIOLA PAGE (A), *Instructor in Economic and Political Science*
Diploma in Social Work, Toronto, 1936; B.A., 1948. 1950

REV. FRANK CORNELIUS PETERS (W), *Lecturer in Psychology and German*
B.A., Tabor, 1947; B.Th., *ibid.*, 1948; M.Sc., Kansas State, 1948; B.D., 1951. 1949

PAUL MICHAEL PFALZNER (C), *Instructor in Physics*
B.A., Toronto, 1946; M.Sc., McGill, 1951. 1951

WILLIAM JOHN PILLSWORTH (C), *Lecturer in Physical, Health, and Recreation Education*
B.A., 1949; M.A., N.Y.U., 1951. 1951

ELIZABETH PRESTON (C), *Senior Demonstrator and Lecturer in Botany*
B.Sc., Leeds, 1950. 1951

EUGENE JOACHIM RENAUD (A), *Instructor in Mathematics*
B.A., 1948. 1951

HELEN MARGARET ROSSITER (C), *Lecturer in Health; University Physician*
M.B.Ch.B., Edinburgh, 1940; D.A., London, 1948. 1948

REV. LLOYD HENRY SCHAUS (W), *Lecturer in Religious Knowledge*
B.A., 1930; B.D., 1940; M.A., Columbia, 1938; Dean, Waterloo College, 1947. 1947

JAMES R. SCOTT (C), *Instructor in English*
B.A., Toronto, 1938. 1948

MORRIS B. SEIDELMAN (A), *Instructor in Economic and Political Science*
LL.B., St. John's (Brooklyn) 1930; B.A., College of City of N.Y., 1940; M.S., Columbia, 1943. 1951

URITH TAYLOR SEYMOUR (MRS.) (W), *Lecturer in English*
A.T.C.M., Toronto, 1914; L.C.S.E., *ibid.*, 1915. 1945

EDWARD MCLEOD SHORTT (C), *Lecturer in Economics*
B.A., Toronto, 1937; Barrister-at-Law, Osgoode, 1941; LL.B., Toronto, 1947. 1949

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B.A., Toronto, 1940; Barrister-at-Law, Osgoode, 1943. 1951

BEVERLY NORTHCOTTE SMALLMAN (C), *Honorary Lecturer in Zoology*
B.A., Queen's, 1936; M.A., 1938; Ph.D., Edinburgh, 1940. 1951

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

JEAN KATHLEEN THURLOW (MRS. H. J.) (Alma), *Instructor in Psychology*
B.A., Alberta, 1925; M.A., Toronto, 1941. 1949

THEODOS TSCHERNITZA (A), *Lecturer in Russian*
LL.D., Moscow, 1916. 1951

ROBERT JAMES UFFEN (C), *Instructor in Physics*
B.A.Sc., Toronto, 1949; M.A., *ibid.*, 1950; P. Eng., 1950. 1950

LIISA WEEKES (MRS. WILLIAM) (C), *Lecturer in Library Science*
B.A., Toronto, 1947; B.L.S., *ibid.*, 1949. 1951

JOHN WALKER WHITESIDE (A), *Instructor in Economic and Political Science*
B.A., 1947; Barrister-at-Law, 1950. 1950

NEIL LESLIE WILSON (C), *Instructor in Philosophy*
B.A., British Columbia, 1947; M.A., Toronto, 1948; Ph.D., Yale, 1952. 1951

ERNEST JOEL ROBERT WRIGHT (C), *Lecturer in Economic and Political Science*
B.A., 1930; Barrister-at-Law, Osgoode, 1933. 1949

HENRY WILKES WRIGHT (W), *Lecturer in Psychology*
B.A., Cornell, 1899; Ph.D., *ibid.*, 1903. 1948

	Page
Academic Calendar	5
Administrative Council	8
Admission	12
Advanced Degrees	20
Advanced Standing	13
Alma College	104
Appeals	17
Assumption College	105
Attendance at Lectures	14
Board of Governors	6
Bursaries	123-132
Calendar, Faculty of Arts and Science	5
Conduct	14
Correspondence Courses	19

Course Requirements in:	Page	Course Descriptions
Art	32	103
Biology	34	49, 100
Botany	34	49
Business Administration	35	See separate announcement.
Chemistry	36	52
Classics	37	55
Economic and Political Science	37	58
Educational Counselling	32	103
English	38-40	62
Fine Arts	63	63
French	38, 40, 45	95
General	26-29	49-103
General Science	32	49-103
Geography	41	65
Geology	41	66
German	45	69
Greek	37	55
Handicrafts	32	104
Health	11	71
Hebrew	30, 111	71
History	42	72
Home Economics	31	74
Italian	45	97
Journalism	42	75
Latin	37, 39, 40	56
Law	21	77
Library Science	26-34	77
Mathematics and Astronomy	43-45	78
Military Studies	134	134
Modern Languages	45	69, 95
Music	114	81, 115
Nursing	33	33
Philosophy	39, 40, 45	83, 106, 108, 116, 119
Physical, Health, and Recreation Education	46	86
Physics	36, 43	89
Psychology	47	93, 122
Public Administration	48	48
Public Health	32	104
Radio Physics	44	89
Religious Knowledge	95	110, 112-14, 118, 120, 123
Romance Languages	40, 45	95
Russian	98	98
Secretarial Science	30, 35	99
Social Science	48	58, 93
Spanish	45	97
Teachers Course	31	103
Theological Options	30, 111	112
Zoology	34	100

	Page
Credit System, Explanation of	25
Degrees	9
Diplomas	10
Examinations and Grades	15
Examinations, Comprehensive	15
Examinations, Failure in	16
Examinations, Special	16
Examinations, Supplemental	16
Expenses	24
Extension Department	20
Fees	23
Fellowships, Graduate	132
Fine Arts Lectures	63
Grade XII Admission	12
Grade XIII Examinations	12
Grading System	15
Graduate Studies	20
High School Assistants' Certificates, Types A and B	18
Huron College	111
Inspectors' Certificates	18
Insurance, Student Health	11
LL.B. Degree	21
Lectures, Attendance at	14
Length of Courses	14
Libraries	10
M.A., M.B.A., M.Sc. Degrees	20
Number and Credit System, Explanation of	25
Medals and Prizes	126
Military Studies	134
Music Teachers' College	114
Objectives	2
Officers of Instruction, Faculty of Arts and Science	137
Ph.D. Degree	21
Public School Inspectors' Certificates	18
Registration	5, 13, 152
St. Peter's College	116
Scholarships, Graduate	132
Scholarships, Admission	123
Scholarships, Undergraduate	126
Scholarships and Prizes, Summer School	131
Senate	6
Special Students	13
Specialist Certificates (High School Assistants', Type A)	18
Summer School	19
University Officers	7
University College	8, 26
Ursuline College	119
Waterloo College	120

SUMMARY OF REGISTRATION IN FACULTY OF ARTS AND SCIENCE 1951 - 52

Year in Course	University College		Alma College	Assumption College	Huron College	Ursuline College	Waterloo College	St. Peter's College	Music Teachers College	Totals
Full Time:										
First		35*	....	200	4	19	41	1	5	305
Second		665**	....	141	15	36	69	18	8	952
Third		340	....	104	8	22	41	15	5	535
Fourth		260	....	125	3	27	31	18	1	465
Graduate		77	....	4	....	....	....	....	....	81
										2,338
Part Time:										
Graduate		13	....	.....	....	....	....	....	....	13
Undergraduate		46	....	277	3	21	44	1	....	392
										2,743
Correspondence	214	.....	....	.....	....	....	....	....	....	214
Summer School	566	.....	....	.....	....	....	....	....	....	566
Extension	762	.....	....	.....	....	....	....	....	....	762
TOTALS	1,542	1,436	....	851	33	125	226	53	19	4,285
Duplicates										363
										3,922

*Entered with Grade XII only.

**In Second year Pass courses, 461; in second year Honors, 204.

SUMMARY OF REGISTRATION IN THE WHOLE UNIVERSITY

Faculty of Arts and Science:	University College Intramural	1,436	
	Summer School, Correspondence, Extension (less Duplicates)	1,179	
	Affiliated Colleges	1,307	
			3,922
Faculty of Medicine:	Graduates	38	
	Undergraduates	251	
			289
School of Nursing:	Graduate Nurses		49
School of Business Administration:	Graduates	57	
	Seniors	65	
	Juniors	80	
			202
UNIVERSITY TOTAL			4,462