UNIVERSITY OF WESTERN ONTARIO

LONDON - CANADA

FACULTY of ARTS and SCIENCE

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

Announcement 1947-1948

Contents

	Page
Calendar	5
Officers of Legislation, University	6
Officers of Administration, University	8
General Information	10
Officers of University College	17
Officers of Alma College	18
Officers of Assumption College	18
Officers of Holy Names College	18
Officers of Huron College	18
Officers of St. Peter's Seminary College of Arts	19
Officers of Ursuline College	19
Officers of Waterloo College	19
Officers of Instruction, Faculty of Arts and Science	20
Objectives	34
General Regulations, Faculty of Arts and Science	35
Teachers' Courses	42
Regulations for Public School Inspectors' Certificates	43
Regulations for High School Assistant Certificates	44
Master's Degree	45
Medals, Scholarships, Prizes	47
Fees	58
Requirements for Degrees	60
Description of Courses	92
Index	189
Summary of Registration	192

Calendar for 1947

1947 JANUARY 1947						
SUN	MON	TUE	WED	THU	FRI	SAT
-	-	-	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	-

1947 FEBRUARY 1947						
SUN	MON	TUE	WED	THU	FRI	SAT
-	-	-	-	-	-	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	-

1947 MARCH 1947						
SUN	MON	TUE	WED	THU	FRI	SAT
-	-	-	-	-	-	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
$^{23}_{30}$	$^{24}_{31}$	25	26	27	28	29

1947 APRIL 1947						
SUN	MON	TUE	WED	THU	FRI	SAT
-	-	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	-	-	-

1947 MAY 1947						
SUN	MON	TUE	WED	THU	FRI	SAT
-	-	-	-	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

1947 JUNE 1947						
SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	-	-	-	-	-

1947 JULY 1947						
SUN	MON	TUE	WED	THU	FRI	SAT
-	-	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	-	-

1947 AUGUST 1947						
SUN	MON	TUE	WED	THU	FRI	SAT
-	-	-	-	-	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
$^{24}_{31}$	25	26	27	28	29	30

1947 SEPTEMBER 1947						
SUN	MON	TUE	WED	THU	FRI	SAT
-	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	-	-	-	-

1947 OCTOBER 1947						
SUN	MON	TUE	WED	THU	FRI	SAT
-	-	-	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	-

1947 NOVEMBER 1947						
SUN	MON	TUE	WED	THU	FRI	SAT
-	-	-	-	-	-	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
$^{23}_{30}$	24	25	26	27	28	29

1947 DECEMBER 1947						
SUN	MON	TUE	WED	THU	FRI	SAT
-	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	-	-	-

Calendar for 1948

1948 JANUARY 1948						
SUN	MON	TUE	WED	THU	FRI	SAT
-	-	-	-	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

1948 FEBRUARY 1948						
SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	-	-	-	-	-	-

1948 MARCH 1948						
SUN	MON	TUE	WED	THU	FRI	SAT
-	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	-	-	-

1948 APRIL 1948						
SUN	MON	TUE	WED	THU	FRI	SAT
-	-	-	-	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	-

1948 MAY 1948						
SUN	MON	TUE	WED	THU	FRI	SAT
-	-	-	-	-	-	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
$^{23}_{30}$	$^{24}_{31}$	25	26	27	28	29

1948 JUNE 1948						
SUN	MON	TUE	WED	THU	FRI	SAT
-	-	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	-	-	-

1948 JULY 1948						
SUN	MON	TUE	WED	THU	FRI	SAT
-	-	-	-	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

1948 AUGUST 1948						
SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	-	-	-	-

1948 SEPTEMBER 1948						
SUN	MON	TUE	WED	THU	FRI	SAT
-	-	-	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	-	-

1948 OCTOBER 1948						
SUN	MON	TUE	WED	THU	FRI	SAT
-	-	-	-	-	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
$^{24}_{31}$	25	26	27	28	29	30

1948 NOVEMBER 1948						
SUN	MON	TUE	WED	THU	FRI	SAT
-	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	-	-	-	-

1948 DECEMBER 1948						
SUN	MON	TUE	WED	THU	FRI	SAT
-	-	-	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	-

CALENDAR OF FACULTY OF ARTS AND SCIENCE

1947

July 7, Monday ..... Registration Day for Summer Session.

August 18, Monday ..... Supplemental examinations begin.

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

September 15, Monday ..... Registration of first year students.

September 16, Tuesday ..... Registration of first year students (continued).

September 17, Wednesday ... Psychological tests; Orientation lectures.

September 18, Thursday ..... Orientation lectures; student meetings.

September 19, Friday ..... Registration of second, third and fourth year students from London, and from Middlesex and Elgin Counties.

September 20, Saturday ..... Registration of second, third and fourth year students from other centres.

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

October 4, Saturday ..... Last day of registration for full-time students and for M.A. and M.Sc. candidates.

October 8, Wednesday ..... Annual Field Day; p.m. classes cancelled.

October 24, Friday ..... Prize Day Exercises: Autumn Convocation.

December 20, Sat. 1 p.m. ..... Christmas vacation begins.

1948

January 5, Monday ..... Lectures resume.
Last day for submitting outlines for M.A. and M.Sc. theses.

January 12, Monday ..... Midyear examinations begin.

January 24, Saturday ..... First term ends.

February 2, Monday ..... Second term begins.

March 26, Friday ..... Lectures cancelled.

May 1, Saturday ..... M.A. and M.Sc. theses due in Registrar's Office. Lectures for second term close.

May 10, Monday ..... Second term examinations begin.

June 2, Wednesday ..... Annual Convocation.

UNIVERSITY OFFICERS OF LEGISLATION

The Board of Governors

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

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

Officers of the Board

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

The Senate

(1946-1948)

The Chancellor, the Vice-Chancellor, the President, the Vice-President, the Registrar, the Director of the Summer School and Extension Department and the Librarian, *ex officio*.

	Representative of
DEAN K. P. R. NEVILLE,	*Faculty of University College*
PROFESSOR A. G. DORLAND,	*Faculty of University College*
DEAN G. E. HALL,	*Faculty of Medical School*
DR. E. M. WATSON,	*Faculty of Medical School*
DEAN A. J. SLACK,	*Faculty of Public Health*
DR. W. M. WILSON,	*Faculty of Public Health*
MOST REVEREND C. A. SEAGER,	*Council of Huron College*
PRINCIPAL A. H. O'NEIL,	*Council of Huron College*
PRESIDENT H. T. LEHMANN,	*Faculty of Waterloo College*
DEAN C. F. KLINCK,	*Faculty of Waterloo College*
PRINCIPAL P. S. DOBSON,	*Faculty of Alma College*
PRESIDENT J. H. O'LOANE,	*Faculty of Assumption College*
REV. J. F. MURPHY,	*Faculty of Assumption College*
PRINCIPAL HARVEY ROBB,	*Western Ontario Conservatory of Music*
DIRECTOR MAX PIRANI	*Music Teachers College*

RIGHT REV. A. P. MAHONEY,	*Faculty of St. Peter's College*
REV. J. H. POCOCK,	*Faculty of St. Peter's College*
MOTHER M. MARIE,	*Faculty of Ursuline College*
MOTHER M. AGNES,	*Faculty of Ursuline College*
MR. J. E. DURRANT,	*Graduates of University College*
MR. P. L. MCMANUS,	*Graduates of Assumption College*
VEN. ARCHDEACON W. J. DOHERTY,	*Graduates of Huron College*
REV. F. J. BRENNAN,	*Graduates of St. Peter's College*
DR. E. LOUGHLIN,	*Graduates of Ursuline College*
MR. RALPH TAILBY,	*Graduates of Waterloo College*
MISS MARGARET MCLAUGHLIN,	*Graduates in Public Health*
DR. CLARE SANBORN,	*Graduates in Medicine*
MR. A. R. FORD,	*Board of Governors*
MR. FRANK FORRISTAL, K.S.G.,	*Board of Governors*
REV. CANON W. A. TOWNSHEND,	*London Board of Education*
REV. J. A. FEENEY,	*London Separate School Board*
COL. W. J. HEAMAN,	*City Council of London*
DR. W. J. STEVENSON,	*City Council of London*
DR. C. H. REASON,	*City Council of London*
MR. J. BRUCE CALDWELL,	*City Council of St. Thomas*
MR. H. B. GALPIN,	*City Council of Sarnia*
DR. F. J. KIRVAN,	*City Council of Guelph*
REV. F. W. SCHAFFTER,	*City Council of Brantford*
MR. W. N. SEXSMITH,	*City Council of Chatham*
MR. L. WHEELTON,	*City Council of Windsor*
MR. H. A. STEWART,	*City Council of Galt*
MR. J. G. BROWN,	*City Council of Kitchener*
MR. A. S. STEWART,	*City Council of Owen Sound*
DR. R. S. MURRAY,	*City Council of Stratford*
MR. J. D. HILL,	*City Council of Woodstock*
MR. W. A. SUTHERLAND,	*County Council of Middlesex*
MR. C. W. MCDIARMID,	*County Council of Bruce*
MR. ALEX. MCCOLL,	*County Council of Elgin*
MR. N. W. MILLER,	*County Council of Huron*
MR. W. A. MCKENZIE,	*County Council of Kent*
MR. HAROLD GIBB,	*County Council of Lambton*
MR. L. K. COLES,	*County Council of Oxford*
DR. G. H. JOSE,	*County Council of Perth*
MR. EDWIN HUEHN,	*County Council of Waterloo*
MR. BEECHER PARKHOUSE,	*County Council of Wellington*
MR. W. T. LAING,	*Principals, Secondary Schools*
MR. E. A. MILLER,	*Principals, Secondary Schools*
MR. D. S. FULLER,	*Principals, Secondary Schools*
MR. J. W. EDWARDS,	*Principals, Secondary Schools*

Officers of the Senate

CHAIRMAN, President W. Sherwood Fox, *ex officio.*
SECRETARY, Registrar K. P. R. Neville, *ex officio.*

EXECUTIVE COMMITTEE: The Chancellor; the Vice-Chancellor; the President; the Vice-President; the Secretary; the Head (or his Deputy) of University College, Medical School, Faculty of Public Health, Ursuline College, Assumption College, St. Peter's College, Huron College, Waterloo College.

UNIVERSITY OFFICERS OF ADMINISTRATION

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

Visitor

HIS HONOR, THE LIEUTENANT-GOVERNOR OF ONTARIO — Toronto, Ontario

Chancellor

To be elected.

President

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

B.A., McMaster, 1900; M.A., *ibid.*, 1906; Ph.D., Johns Hopkins, 1911; F.R.S.C., 1922; D. Litt. McMaster, 1923; Laval, 1947; LL.D., Queen's, 1929, Ottawa, 1935, Alberta, 1937, Toronto, 1938; Professor of Classics, 1917; Dean, University College of Arts, 1919; President, 1927. 1917

Vice-President and Librarian

FRED LANDON, M.A., F.R.S.C.

B.A., 1906; M.A., 1919; F.R.S.C., 1929; Librarian, 1923; Vice-President, 1946. 1917

Registrar

KENNETH PERCIVAL RUTHERFORD NEVILLE, M.A., PH.D.

B.A., Queen's, 1896; M.A., *ibid.*, 1897; B.A., Harvard, 1898; M.A., *ibid.*, 1899, Ph.D., Cornell, 1901; F.A.G.S., 1921; Professor of Classics, 1908; Registrar of the University, 1917; Dean, University College of Arts, 1927. 1908

Comptroller

ROSS BAXTER WILLIS, M.A.

B.A., 1931; M.A., 1933. 1939

Director of Extension 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. 1926

Dean of Women

LEOLA ELLEN NEAL, Ph.D.
B.A., 1933; M.A., 1935; Ph.D., Toronto, 1942. 1933

Associate Registrar

HELEN MILDRED ALLISON, M.A.
B.A., 1924; M.A., Minnesota, 1941. 1924

Assistant Registrar

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

Assistant Librarians

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

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

Curators of the Museum of Indian Archaeology

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

Honorary Historian

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

Administrative Council

PRESIDENT FOX, *Chairman*; DEANS HALL, NEVILLE, SLACK, NEAL;
ASSOCIATE PROFESSOR F. STILING, *Secretary*.

General Information

ORGANIZATION

The University of Western Ontario is composed of three units: the College of Arts and Science (University College), the Medical School and the Institute of Public Health; affiliated with the University are four colleges teaching four-year Arts courses: viz., Assumption College, Windsor; Ursuline College, London; St. Peter's Seminary College of Arts, London; Waterloo College, Waterloo; one Junior College teaching the first two years in Arts only, Alma College, St. Thomas; one theological college, Huron College, London.

HISTORY

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

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

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

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

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

PHYSICAL EXAMINATIONS

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

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

STUDENT HEALTH INSURANCE

The scheme of health insurance was designed and is operated for the benefit of the students. Its first purpose is to protect any student whose academic year or college course may be jeopardized financially by a serious accident or a prolonged illness. The second is to maintain the health and efficiency of the students. As the student body cannot make a legal contract, the University has made the contract and has also assumed the overhead costs, but the University does not assume any responsibility for claims. This responsibility is borne entirely by the Assurance Company.

No insurance claims will be paid to any student who has not taken the physical examination (including the chest X-ray) for the current year (see page 10).

The maximum claim for one student is $100.00. For the protection, however, of students engaged in competitive athletics, the Athletic Association pays the Assurance Company an additional premium and then prepares a list of students for whom special protection is provided to a maximum of $200.00 each. No medical fees will be paid from the funds of the Association unless the obligation has been sanctioned in advance by the Director of Physical Education or the physicians of that department.

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

UNIVERSITY CONCERT SERIES

The cultural life of the University is enhanced by the provision each year of a series of concerts by artists of high distinction in their several departments of music. The plan provides for at least two concerts during the academic year. The project is subject to the jurisdiction of the University Students' Commission and the Carnegie Music Fund Committee under the Chairmanship of the President of the University. Each full-time student in the three constituent Faculties (Arts, Medicine, Public Health) is given, in return for the payment of the music fee, a ticket of membership in the series which entitles him or her to admission to all concerts. Members of the governing bodies and of the alumni, together with their families, are admitted to membership upon payment of a fee per person arranged by the Committee for each annual series.

THE LIBRARIES

Since sound learning is impossible without sufficient good books, the library has an important place in a university. There are three libraries at the University of Western Ontario, each of which comes under the central administration of the University Library Board. The three divisions follow the Library of Congress system of classification. The main collection of books,

amounting to 140,000 is housed in the Lawson Memorial Library, erected in 1934. The Medical School Library contains more than 31,000 volumes. The Library of the Institute of Public Health is maintained as a working collection of books and journals and contains about 1,800 volumes. Thus the combined libraries contain more than 172,000 volumes.

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

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

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

DEGREES

By its charter the University of Western Ontario may confer degrees in Arts, Medicine, Science, Agriculture, Law, Education, Music, and Theology, upon persons who, having complied with the requirements, are admitted to such degrees by the Senate.

The degrees at present conferred by the University are:

1. Honorary Degrees: *Doctor of Divinity; Doctor of Science; Doctor of Laws; Doctor of Letters.
2. Degrees by examination: Bachelor of Arts (B.A.); Bachelor of Science (B.Sc.); Bachelor of Science in Nursing (B.Sc.N.); *Bachelor of Divinity (B.D.); Bachelor of Laws (LL.B.); Master of Arts (M.A.); Master of Science (M.Sc.); Doctor of Medicine (M.D.); *Doctor of Divinity (D.D.).

The diplomas and certificates awarded by the University are:

Diploma in Business Administration; Diploma in Public Administration; Diploma in Home Economics; Diploma of Public Health (D.P.H.); Certificate of Public Health Nurse (C.P.H.N.); Certificate of Instructor in Nursing (C.I.N.); Certificate in Hospital Administration (C.H.A.).

Re-Establishment of Ex-Members of the Services

The Minister of Pensions and National Health has the authority under Order-in-Council 5210 to approve, under one of the two following categories, training, including maintenance grant and fees (together with appropriate allowances for dependents), for ex-members of the forces:

I. University, Undergraduate: any discharged person who

(a) has been regularly admitted to a university before his discharge and resumes within one year and three months after discharge a course, academic or professional, interrupted by his service; or

(b) becomes regularly admitted to a university and commences any such course within one year and three months after his discharge; or

(c) for any reason **satisfactory to the Minister** delays resumption or commencement of such course beyond the aforementioned periods.

The opportunity for university training is governed by the length of service. Where progress is satisfactory, the assistance may be continued for as many months, in university, as the man served in the Forces. If the student's progress and **attainments** in his course are such that the Minister deems it in his interest and in the public interest, the payment of the grant may be extended beyond the period of service to permit the man to complete his course.

---

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

** See note on next page.

However, the grants shall not be continued to any person who fails in more than six credits, two full courses, in any academic year nor to any person who having failed in the six credits or less, also fails in the supplemental examinations next offered by the university in the courses failed. One failure may be carried forward.

II. University, Post-Graduate; any discharged person who

(a) has entered upon a post-graduate course, either academic or professional, in a university before enlistment, or was about to do so at the time of his enlistment, or having completed his undergraduate course in a university after his discharge, enters upon a post-graduate course as aforesaid, and

(b) resumes or commences such post-graduate course within

i. one year from his discharge, or

ii. one year from the commencement, next following his discharge, of such course in such university, if his discharge precedes such commencement by not more than three months, or

iii. in the case of a discharged person who completes his undergraduate course after his discharge, as soon as may be after such completion.

But the **Minister** after examining the student's past academic performance and the course to be undertaken or resumed **must approve** as a matter of public interest the student's pursuing this course. The payment will be for as many months as the student has served in the forces, but the period of assistance may be extended if the progress and achievements of the student are so outstanding that it is deemed in the public interest that the grant should be continued.

Grants. A "grant" under the provisions of Sections I, II above means $60.00 per month in the case of an unmarried person and $80.00 per month in the case of a married person, together with, in either case, such additional monthly allowance for dependents, if any, as provided below, and, in either case reduced by such amount on account of any pension, wages, salary or other income such person may have received or be entitled to receive in respect of the period for which such grant is paid, as the Minister seems right.

Additional allowance for person in lieu of wife	$20.00
Additional allowance for one child	12.00
Additional allowance for second child	12.00
Additional allowance for third child	10.00

*NOTE: *"Attainments"* means unconditioned standing in the top 25% (first quartile) of his class on the final examinations on the full work of the year next preceding the year in which his period of entitlement expires.

Additional allowance for each subsequent child not in excess of three..... 8.00

Additional allowance for parent or parents..... 15.00

TRAINING IN THE ARMED FORCES

Students (men) may offer themselves for one of the two Armed Services, the University Naval Training Divisions and the Canadian Officers' Training Corps. Suitable candidates in each Service may be selected and trained for commissioned rank. The year's work in U.N.T.D. may count as an autumn and winter option for Physical Education. This credit is not allowed for C.O.T.C.

Canadian Officers' Training Corps

1. Canadian Officers' Training Corps offers undergraduates a unique opportunity to qualify themselves for a commission in the Canadian Army, either Active or Reserve, through the training program especially designed to meet their requirements.

2. Students are eligible who are:

   (a) British subjects between the ages of 18 and 22; in the case of men who were on active service during the war, 1939-45, these requirements may be varied to allow a higher age of entry.

   (b) Of a physical standard suitable for the Canadian Army Active Force.

   (c) Following a course of study leading to a recognized degree.

3. Training provided falls into two categories:

   (a) Theoretical training—a 40-hour course of lectures on military subjects given during the academic year.

   (b) Practical training—a series of attachments during the summer months to Corps Schools of the Canadian Army, Active Force.

4. Students accepted for C.O.T.C. Training are immediately granted the rank of "Temporary Second Lieutenant" and hold that rank throughout the military training program. They are, therefore, eligible for the pay of that rank for every full day of military duty. The basic rate of pay for that rank is $135.00 per month. Students will receive this pay for every day spent in summer camp up to a maximum of four months, and also for attendance at lectures during the second and third training years. For this purpose, attendance at 4 hours of lectures is counted as one day's duty.

C.O.T.C. officers at the various colleges are as follows:

University College —Major H. H. A. Parker, O.B.E., Resident Staff Officer
—Lt. Col. F. Stiling
—Major J. J. Talman
—Capt. R. N. Shervill

Medical School —Major M. L. Barr

Assumption —Capt. G. Horne

Waterloo —Major A. E. Raymond

Students wishing to apply for C.O.T.C. training should present themselves to any of these officers before January 15, 1948, after which date no applications will be considered.

University Naval Training Divisions

The Royal Canadian Navy consists of a Permanent Force of some 10,000 officers and men operating from bases at Halifax and Esquimalt and a Reserve of approximately 18,000 officers and men attached to Naval Divisions maintained in various cities across Canada. H.M.C.S. "Prevost" is located at London.

Vacancies exist in both Permanent Force and Reserve.

The R.C.N. looks to the Universities for the majority of officers with high technical qualifications. Undergraduates with or without previous experience may receive Naval Training through the University Naval Training Divisions (U.N.T.D.). After successful completion of the course they may obtain a commission in the R.C.N. or the R.C.N.(R).

First-year students are enrolled as Ordinary Seamen and in subsequent years the rate may be gradually increased—second year to Able Body, third year to Leading Hand and fourth to Petty Officer. At any time after the first year a member of the U.N.T.D. may appear before a Preliminary Selection Board which decides if he is of Officer calibre.

Each member of the U.N.T.D. must serve sixty (60) hours during the academic year, and is entitled to ten (10) days' pay of the rate he holds. In addition he must have two weeks' compulsory service afloat each year. He may volunteer for additional service. Volunteer service for ratings draws the pay of the next higher rate; e.g., Ordinary Seamen are paid as Able Body Seamen. Officer candidates receive approximately One Hundred and Thirty-five Dollars ($135) a month with lodging, clothing and equipment provided while training afloat during the summer.

The Officer Commanding H.M.C.S. "Prevost"—Commander W. A. Charles.

The U.N.T.D. Officers are:

Lt.-Cmdr. N. C. Hart
Sub/Lt. C. Mecredy
Sub/Lt. N. D. Knowles

FACULTY OF ARTS AND SCIENCE

Faculty Council

Chairman, THE PRESIDENT

Secretary, THE ASSOCIATE REGISTRAR

DEAN K. P. R. NEVILLE,	*Faculty of University College*
PROFESSOR F. LANDON,	*Faculty of University College*
PRESIDENT J. H. O'LOANE,	*Faculty of Assumption College*
REV. J. F. MURPHY,	*Faculty of Assumption College*
MOTHER M. MARIE,	*Faculty of Ursuline College*
MOTHER M. ROSANNA,	*Faculty of Ursuline College*
RT. REV. A. P. MAHONEY,	*Faculty of St. Peter's College*
REV. J. H. POCOCK,	*Faculty of St. Peter's College*
DEAN C. F. KLINCK,	*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*

Officers of Administration

University College

(*London, Ontario*)

Dean

K. P. R. NEVILLE, PH.D.

Secretary

D. O. ROBSON, PH.D.

Director of Summer School and Extramural Department

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

Director of Extension Department

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

Representative on the University Library Board

J. A. GUNTON, PH.D., F.C.I.C.

Representative on the Athletic Board

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

For Officers of Instruction, see pp. 20-33.

Alma College

(*St. Thomas, Ontario*)

Principal
REV. P. S. DOBSON, M.A., D.D.

Vice-Principal
REV. BRUCE MILLAR, B.A., B.D.

Dean of Residence
HELEN HARDY, B.A.

Registrar
HARRIETT JOLLIFFE

For Officers of Instruction, see pp. 20-33.

Assumption College

(*Windsor, Ontario*)

President
VERY REV. J. H. O'LOANE, M.A.

Registrar
REV. J. F. MURPHY, PH.D.

For Officers of Instruction, see pp. 20-33.

Holy Names College

(in affiliation with Assumption College)
(*Windsor, Ontario*)

Dean
SISTER MARY ELECTA, M.A.

For Officers of Instruction, see pp. 20-33.

Huron College

(*London, Ontario*)

Principal
REV. A. H. O'NEIL, M.A., D.D.

Registrar and Bursar
REV. T. M. B. PARKER, M.A., B.D.

Dean of Residence
REV. CANON K. E. TAYLOR, M.A., B.D., O.B.E.

For Officers of Instruction, see pp. 20-33.

Ursuline College

(London, Ontario)

President

MOTHER MARY AGNES, M.A.

Dean

MOTHER M. MARIE, M.A.

Registrar

MOTHER M. ROSANNA, M.A.

For Officers of Instruction, see pp. 20-33.

St. Peter's Seminary College of Arts

(London, Ontario)

Rector

RT. REV. A. P. MAHONEY, D.P., V.G.

Registrar

REV. T. J. MCCARTHY, S.T.D.

For Officers of Instruction, see pp. 20-33.

Waterloo College

(Waterloo, Ontario)

President

REV. HELMUT T. LEHMANN, TH.D.

Dean

CARL F. KLINCK, PH.D.

Dean of Women and Registrar

MARION AXFORD, B.A.

For Officers of Instruction, see pp. 20-33.

Officers of Instruction

SESSION 1946-1947

(The year of first appointment to University Staff is given. A in brackets after a name indicates the staff of Assumption College; C, the staff of University College; P, the staff of St. Peter's Seminary College of Arts; U, the staff of Ursuline College; W, the staff of Waterloo College; H, the staff of Huron College. Unless otherwise indicated the degrees have been granted by the University of Western Ontario).

MOTHER M. AGNES (U), *Instructor in English*
B.A., 1927; M.A., Toronto, 1930. 1939

SISTER AGATHE DE SICILE (A), *Associate Professor of French*
B.A., Manitoba, 1922; M.A., *ibid.*, 1926; Ph.D., Ottawa, 1940. 1945

SISTER M. AIMÉE DU SACRÉ COEUR (A), *Instructor in Classics*
B.A., 1937; M.A., Loyola, Chicago, 1944. 1941

ELNORA EVELYN KELLY ALBRIGHT (Mrs. F. S.) (C), *Associate Professor of English*
B.A., Toronto, 1912; Barrister-at-Law, Alberta, 1919; M.A., Chicago, 1926. 1920

TULLIO ANGELO ALESSI (A), *Instructor in Physics*
B.A., 1945. 1945

RAY LEROI ALLEN (C), *Professor of Physics*
B.A., Mt. Allison, 1917; M.A., *ibid.*, 1919. 1921

RONALD ALEXANDER ALLEN (C), *Professor of German*
B.A., Toronto, 1921; M.A., *ibid.*, 1922; Ph.D., Chicago, 1928. 1923

SISTER ALOYSIUS MARY (A), *Instructor in Library Science and History*
B.Ph., Loyola, Chicago, 1934; M.A., De Paul, Chicago, 1937; B.L.S., Catholic Univ. of America, 1943. 1940

HELEN CAROLINE ANTHONY (ALMA), *Instructor in Religious Education*
B.A., McMaster, 1936. 1945

WILLIAM ERIC DUNCAN ATKINSON (C), *Instructor in English*
B.A., Cambridge, 1938. 1945

MOTHER M. AUGUSTINE (U), *Instructor in English*
B.A., 1932. 1946

WALTER BALDERSTON (C), *Assistant Professor of History*
B.A., Cornell, 1935; Ph.D., *ibid.*, 1941. 1945

DESIRE BARATH (A), *Professor of Philosophy*
Assistant Professor of Economics
B.A., 1936; M.A., Toronto, 1938; Ph.D., *ibid.*, 1941. 1943

MARY ROSS BARKER (C), *Assistant Director of Physical Education*
D.P.E., Margaret Eaton, 1931. 1935.

HELEN IRENE BATTLE (C), *Associate Professor of Zoology*
B.A., 1923; M.A., 1924; Ph.D., Toronto, 1928; F.A.A.A.S., 1933 1924

CHRISTOPHER JOHN BITTNER (C), *Assistant Professor of Economics*
B.A., Valparaiso, 1916; M.A., Iowa, 1924; Ph.D., *ibid.*, 1932. 1938

ROLAND HENRY BLAIR (C), *Instructor in Spanish*
B.L., Institute of Santiago de Cuba, 1944: B.S., *ibid.*, 1944.

REV. FRANCIS JOSEPH BRENNAN (U), *Professor of Religious Knowledge*
B.C.L., Laval, 1910; S.T.L., Angelicum, Rome, 1911. 1923

GEORGE E. BUCKLEY (C), *Assistant Professor of English*
B.A., Mt. Allison, 1937; M.A., Columbia, 1942. 1946

REV. FRANCIS LEO BURNS (A), *Associate Professor of Economics*
B.A., 1928; M.A., Michigan, 1939. 1936

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), *Instructor in Library Science*
B.A., 1922. 1923

ELAINE WOODROW CHAPMAN (Mrs. C. B.) (C), *Instructor in Secretarial Science*
B.A., 1932. 1945

RANDAL HUDIE COLE (C), *Assistant Professor of Mathematics*
B.A., 1936; M.A., Wisconsin, 1937; Ph.D., *ibid.*, 1940. 1940

WILLIAM EDWIN COLLIN (C), *Associate Professor of Romance Languages*
L. ès L., Toulouse, 1922; M.A., 1925. 1923

REV. JOSEPH AYLWARD COOK (U, P), *Instructor in Philosophy*
B.A., 1921; M.A., Catholic Univ. of America, 1937. 1939

JOHN HOWARD CROCKER (C) *Director of Physical Education*
M.P.E., Springfield, 1916. 1930

REV. CORNELIUS P. J. CROWLEY (A), *Assistant Professor of English*
B.A., Toronto, 1931; M.A., Michigan, 1945. 1944

ROBERT CUMMINGS (A), *Professor of Biology*
B.S., Detroit, 1937; M.S., *ibid.*, 1939. 1941

THOMAS RANDALL DALE (C), *Instructor in English*
B.A., Toronto, 1938; M.A., *ibid.*, 1939. 1946

RAYMOND COMPTON DEARLE (C), *Professor of Physics*
B.A., Toronto, 1914; M.A., *ibid.*, 1915; Ph.D., *ibid.*, 1919; F.R.S.C., 1944; M.B.E., 1946. 1919

FRANK A. DEMARCO (A), *Associate Professor of Science*
B.A.Sc., Toronto, 1942; M.A.Sc., *ibid.*, 1943. 1946

MARIAN HELEN DERTINGER (U), *Instructor in Home Economics*
B.A., 1944. 1945

JOHN DETWEILER DETWILER (C), *Professor of Applied Biology*
B.A., Queen's, 1912; M.A., *ibid.*, 1913; Ph.D., Cornell, 1921; F.A.A.A.S., 1926. 1921

*WILLIAM ALEXANDER DUNCAN DEWAR (C), *Associate Director of Physical Education*
B.A., 1936. 1946

HARRIET DOBSON (Mrs. P. S.) (ALMA), *Instructor in French*
B.A., McGill, 1901. 1944

REV PERRY S. DOBSON (ALMA), *Professor of Latin*
B.A., Oxon., 1901; M.A., *ibid.*, 1904; D.D., Wesleyan, 1920; Principal of Alma College. 1925

MOTHER M. DOMINICA (U), *Professor of Home Economics*
B.A., Toronto, 1943; M.A., *ibid.*, 1945. 1945

ARTHUR GARRATT DORLAND (C), *Professor of History*
B.A., Queen's, 1910; M.A., Yale, 1911; Ph.D., Toronto, 1927; F.R.S.C., 1935. 1920

SAMUEL WATSON DUNN (C), *Instructor in Business Administration*
A.B., Harvard, 1942; I.A., *ibid.*, 1943; M.B.A., *ibid.*, 1946. 1946

REV. ANTHONY JOSEPH DURAND (P), *Instructor in English and French*
B.A., 1931; M.A., 1939. 1939

ANDREW MONTAGUE ISAACSON ALEXANDER WILLIAM DURNFORD (C), *Associate Professor of Physics*
B.A., 1925; M.A., 1926; Ph.D., Toronto, 1931. 1930

SISTER MARY ELECTA (A), *Professor of English*
B.A., Queen's, 1914; M.A., *ibid.*, 1922. 1934

SISTER M. ELIZABETH THÉRÈSE (A), *Associate Professor of History*
B.A., Queen's, 1927; M.A., 1935. 1934

MARY JOAN ELLIS (U), *Instructor in Home Economics*
B.A., Toronto, 1944. 1946

JOSEPH WILLIAM EVANS (A), *Instructor in Library Science*
B.A., 1942. 1944

---

* On leave, 1946-7.

WELLESLEY D. EVANS (W), *Professor of French*
M.A., Toronto, 1922. 1938

MOTHER M. FELICITAS (U), *Instructor in German*
1932

REV. THOMAS WEST FLANNERY (U, P), *Associate Professor of Philosophy*
Ph.L., Angelicum, Rome, 1922; S.T.D., *ibid.*, 1923. 1923

REV. FRANK DESALES FLOOD (A), *Instructor in Library Science and Physics*
B.A., Toronto, 1935; B.L.S., *ibid.*, 1941. 1943

PATRICK FLOOD (A), *Associate Professor of Philosophy*
B.A., 1939; M.A., Toronto, 1944. 1945

REV. LEO JAMES FLYNN (U, P), *Instructor in Philosophy*
B.A., 1926; S.T.D., Angelicum, Rome, 1934; S.S.L., Biblical Institute, 1936. 1936

ALICE WILLENA FOSTER (C), *Associate Professor of Physics*
B.A., Toronto, 1916; M.A., *ibid.*, 1918. 1922

SISTER FRANCIS EDWARD (A), *Instructor in Spanish*
B.A., 1933. 1934

WILLIAM ROSS FRASER (U), *Instructor in Philosophy*
B.A., Mt. Allison, 1932; M.A., Dalhousie, 1934; B.D., United, Montreal, 1934. 1946

REV. EDWIN CHARLES GARVEY (A), *Professor of Philosophy*
B.A., Toronto, 1928; M.A., *ibid.*, 1932; Ph.D., *ibid.*, 1937. 1937

JEAN GAUDEFROY-DEMOMBYNES (C), *Assistant Professor of Romance Languages*
Bac., Sorbonne, 1912; Un. Doc., *ibid.*, 1921; D. Et. Sup., *ibid.*, 1929;
Docteur ès Lettres, *ibid.*, 1941. 1946

MARY HAMILTON GILLESPIE (C), *Associate Professor of Secretarial Science*
B.A., 1930; M.A., Columbia, 1941. 1935

REV. CLEOPHAS JEAN GIRARD (P), *Instructor in Philosophy*
B.A., Ottawa, 1938; M.A., *ibid.*, 1939; Ph.L., *ibid.*, 1939. 1946

ALEXANDER JOHN GRANT (A), *Professor of Biology*
B.A., Toronto, 1933; M.A., St. Bonaventure, 1944. 1945

JOHN ABERDEEN GUNTON (C), *Professor of Chemistry*
B.A., McMaster, 1916; M.A., *ibid.*, 1917; Ph.D., Illinois, 1921; F.C.I.C., 1924. 1923

HAROLD ROSS HALL (C), *Instructor in English*
B.A., 1946. 1946

HELEN HARDY (ALMA), *Instructor in English and History*
B.A., 1925; Dean of Residence, Alma College, 1942. 1927

NELSON COLLINS HART (C), *Professor of Botany*
B.A., Toronto, 1915; M.A., *ibid.*, 1916; F.A.G.S., 1931; F.A.A.A.S., 1933. 1919

WALTER BENNETT HARVEY (C),
Associate Professor of Economic and Political Science
B.A., Manitoba, 1914; M.A., *ibid.*, 1928; LL.B., *ibid.*, 1918; Ph.D., Chicago, 1938. 1938

ALBERT LELAND HIGGINS (A), *Director of Physical Education*
B.A., 1931; M.A., Houston, 1940; LL.D., St. Edward's, 1942. 1946

GILBERT RICHARD HORNE (A), *Professor of Economic and Political Science*
B.A., 1931; M.A., Michigan, 1936. 1931

KENNETH WILLIAM HUNTEN (C) *Associate Professor of Chemistry*
B.A., Bishop's, 1916; B.Sc., McGill, 1923; M.Sc., *ibid.*, 1924; Ph.D., *ibid.*, 1926; M.C.I.C., 1946. 1928

*LEONID IGNATIEFF (C), *Instructor in Economics and Russian*
B.A., McGill, 1932. 1944

MARK KEITH INMAN (C), *Professor of Economic and Political Science*
B.A., Acadia, 1925; M.A., Harvard, 1928; Ph.D., *ibid.*, 1938. 1929

SISTER M. ISABEL OF CARMEL (A), *Instructor in Science*
B.A., 1941. 1941

SISTER M. ISIDORE (A), *Instructor in Home Economics*
B.A., Manitoba, 1923. 1940

DAVID IVOR (C), *Assistant Professor of Economic and Political Science*
B.A., 1933; M.A., 1939; Ph.D., London. 1947. 1946

EDWARD GRAYDON JARMAIN (C),
Associate Professor of Business Administration
B.A., 1936. 1943

HERBERT EDWARD JENKIN (C), *Associate Professor of Romance Languages*
B.A., London, Kings, 1913. 1929

ARTHUR RUSSELL JEWITT (C), *Professor of English*
B.A., Dalhousie, 1926; B.A., Oxford, 1930; M.A., *ibid.*, 1932; Ph.D., Cornell, 1936. 1946

ALLISON HEARTZ JOHNSON (C),
Associate Professor of Philosophy and Psychology
B.A., Mt. Allison, 1931; M.A., Toronto, 1932; Ph.D., *ibid.*, 1937. 1937

WALTER H. JOHNSON (C), *Assistant Professor of Zoology*
B.Sc., McGill, 1933; Ph.D., Toronto, 1937. 1943

---

* On leave 1946-47.

HERBERT KARL KALBFLEISCH (C), *Associate Professor of German*
B.A., 1928; M.A., New York, 1930. 1931

BRUCE WEYLER KELLEY (W), *Professor of Science*
B.A., Queen's, 1933. 1946

WILLIAM HUGH KENNER (A), *Assistant Professor of English*
B.A., Toronto, 1945; M.A., *ibid.*, 1946. 1946

CHARLES JAMES KERSWILL (C),
Assistant Professor of Zoology and Applied Biology
B.A., Toronto, 1935; M.A., 1937; Ph.D., Toronto, 1941. 1946

HAROLD REYNOLDS KINGSTON (C), *Professor of Mathematics and Astronomy*
M.A., Queen's, 1908; Ph.D., Chicago, 1914; F.R.A.S., 1924. 1921

CARL FREDERICK KLINCK (W), *Professor of English*
B.A., 1927; M.A., Columbia, 1929; Ph.D., *ibid.*, 1943; Dean, Waterloo College, 1944. 1928

MARK LAFRAMBOISE (A), *Instructor in Mathematics*
B.A., Ottawa, 1942; M.A., Michigan, 1946. 1942

FRED LANDON (C), *Associate Professor of History*
B.A., 1906; M.A., 1919; F.R.S.C., 1929; University Librarian, 1923. 1917

REV. FERGUS JOSEPH PATRICK LAVERTY (P), *Instructor in Classics*
B.A., 1930. 1942

MARGARET RUTH LAZENBY (W), *Instructor in Philosophy and Psychology*
B.A., 1946. 1946.

REV. EUGENE CARLISLE LEBEL (A), *Professor of English*
B.A., Toronto, 1924; M.A., Chicago, 1931. 1941

*REV. EDWARD G. LEE (A), *Professor of History*
Associate Professor of English
B.A., Toronto, 1924; M.A., Chicago, 1943. 1929

REV. HELMUT T. LEHMANN (W), *Professor of Divinity*
B.A., Saskatchewan, 1937; Th.D., Erlangen, 1939; President, Waterloo College, 1944. 1944

DORIS LIDDICOATT (C), *Instructor in English*
B.A., 1915; M.A., 1916. 1925

ROY BALMER LIDDY (C), *Professor of Philosophy and Psychology*
B.A., Toronto, 1911; M.A., *ibid.*, 1912; B.D., Victoria, 1914; Ph.D., Toronto, 1915;
LL.D., Mount Allison, 1931. 1931

* On leave, 1946-7.

LEWIS BURTON LOUGHLIN (A), *Instructor in Library Science*
B.A., 1938. 1939

GORDON RICHEY MAGEE (C), *Associate Professor of Mathematics*
B.A., 1925; M.S., Chicago, 1926; Ph.D., *ibid.*, 1933. 1927

RIGHT REV. ANDREW PARNELL MAHONEY (P), *Professor of Religious Knowledge*
Rector, St. Peter's Seminary College of Arts. 1920

STAR FLOYD MAINE (C), *Associate Professor of History*
B.A., 1917; B.D., Victoria, 1919; M.A., Chicago, 1922; Ph.D., *ibid.*, 1932. 1926

REV. JAMES FRANCIS MALLON (A), *Associate Professor of Romance Languages*
B.A., Toronto, 1929; M.A., Michigan, 1940. 1935

MOTHER M. MARIE (U), *Professor of French and Spanish*
B.A., 1925; M.A., 1928; Ph.D., Toronto, 1945. 1925

REV. THOMAS JOSEPH MCCARTHY (P), *Professor of English*
B.A., 1925; M.A., 1933; S.T.B., and S.T.L., Angelicum, Rome, 1930; S.T.D., *ibid.*, 1931. 1933

GEORGE WILLIAM MCCRACKEN (C), *Professor of Journalism*
B.A., Queen's, 1940. 1946

MALCOLM HUGH MURDOCH MACKINNON (C), *Assistant Professor of English*
B.A., Toronto, 1938; M.A., *ibid.*, 1939. 1946

DUNCAN ARCHIBALD MCLARTY (C), *Assistant Professor of Botany*
B.A., 1934; Ph.D., Columbia, 1940. 1943

FLORA MCGREGOR MACPHERSON (C), *Instructor in English*
B.A., 1942. 1945

MOTHER M. MERCEDES (U), *Professor of History*
B.A., 1930; M.A., 1937. 1930

FRANCES KATHLEEN MONTGOMERY (C), *Assistant Professor of Romance Languages*
B.A., 1927; M.A., 1928; Dr. de l'U. de Paris, 1930. 1930

MAURICE JOSEPH MULLIGAN (A), *Instructor in Chemistry*
B.A., Toronto, 1923; M.A., *ibid.*, 1924. 1933

REV. JOHN FRANCIS MURPHY (A), *Associate Professor of English*
B.A., 1931; M.A., Ottawa, 1942; Ph.D., *ibid.*, 1944. 1944

REV. JOSEPH STANLEY MURPHY (A), *Assistant Professor of English*
B.A., 1928; M.A., Toronto, 1934. 1932

REV. NORMAN J. MURPHY (A), *Professor of History*
B.A., 1927; M.A., Toronto, 1941. 1931

REV. WILLIAM H. MURRAY (A), *Associate Professor of Romance Languages*
B.A., Toronto, 1915; L. en Ph., Int. Catholique, Paris, 1925. 1946

LEOLA ELLEN NEAL (C), *Assistant Professor of Psychology*
B.A., 1933; M.A., 1935; Ph.D., Toronto, 1942. 1933

REV. WILLIAM FRANCIS NIGH (A), *Assistant Professor of Mathematics*
B.A., 1923; M.A., Houston, 1942. 1946

VERY REV. JOHN HENRY O'LOANE (A), *Professor of Religious Knowledge*
B.A., Toronto, 1918; M.A., Columbia, 1931; President, Assumption College, 1946. 1924

REV. ALEXANDER HENRY O'NEIL (H, C), *Professor of Divinity and Hebrew*
B.A., 1928; B.D., 1936; M.A., 1943; D.D., 1945; Principal, Huron College. 1941

JOHN EDWARD OSBORNE (W),
Assistant Professor of Economic and Political Science
B.A., McMaster, 1943; M.A., Toronto, 1946. 1946

REV. MAXWELL BAILEY PARKER (H), *Instructor in Biblical Greek*
B.A., 1928; B.D., 1935; M.A., Columbia, 1940. 1941

EUGENE S. J. PAULUS (A), *Instructor in English*
B.A., Catholic Univ. of America, 1928. 1941

ROBERT EDWARD KINGSDOWN PEMBERTON (C), *Associate Professor of Classics*
M.A., Oxon., 1922. 1926

EDWARD GUSTAV PLEVA (C), *Associate Professor of Geography*
B.A., Minnesota, 1934; M.A., *ibid.*, 1936; Ph.D., *ibid.*, 1939. 1938

REV. JOHN HERMAN POCOCK (U, P), *Professor of Philosophy*
B.A., Toronto, 1915. 1920

ALEXANDER OBERLANDER POTTER (W), *Professor of History*
B.Sc., Gettysburg, 1919; M.A., *ibid.*, 1920; Ph.D., Columbia, 1922. 1925

GEORGE H. POTTS (A), *Instructor in Greek*
B.A., Toronto, 1936. 1942

JOHN DANBY RALPH (C), *Professor of Classics*
B.A., Queen's, 1924; Ph.D., Chicago, 1936. 1925

SISTER M. RAPHAILDA (A), *Associate Professor of Biology*
B.A., De Paul, 1925; M.A., *ibid.*, 1926. 1935

ALFRED ERNEST RAYMOND (W), *Professor of Classics*
B.A., 1935; M.A., Toronto, 1936. 1944

GEORGE HAROLD REAVELY (C), *Professor of Geology*
B.A., 1925; M.A., 1928; D.I.C., London, 1936. 1928

EDWARD ERNEST REILLY (C), *Professor of Economic and Political Science*
B.S.A., Toronto, 1916; M.S., Wisconsin, 1924; F.R.E.S., 1940. 1926

ALBERT DUNCAN ROBERTSON (C), *Professor of Zoology*
B.A., Toronto, 1910; M.A., *ibid.*, 1927; F.A.A.A.S., 1920; F.R.S.A., 1940. 1915

DONALD OAKLEY ROBSON (C), *Associate Professor of Classics*
B.A., Toronto, 1928; M.A., *ibid.*, 1929; Ph.D., *ibid.*, 1932. 1930

WILLIAM KIRBY ROLPH (C), *Instructor in History*
B.A., Toronto, 1940; M.A., Brown, 1941. 1944

SISTER M. ROSALIE (A), *Associate Professor of English and Latin*
B.A., Queen's, 1930; M.A., 1935. 1934

MOTHER M. ROSANNA (U), *Instructor in French, Spanish and Economics*
B.A., 1933; M.A., Catholic University of America, 1938. 1935

REV. FRANCIS SYLVESTER RUTH (A),
Associate Professor of Chemistry and Physics
B.A., Toronto, 1926. 1936

REV. JOHN PETER RUTH (A), *Professor of Mathematics*
B.A., Toronto, 1930; M.A., Michigan, 1945. 1933

MOTHER M. ST. CATHERINE (U), *Instructor in English*
B.A., 1929. 1945

MOTHER M. ST. DOMINIC (U), *Instructor in Home Economics and Mathematics*
B.Sc., Marywood, 1945. 1946

*MOTHER M. ST. JAMES (U), *Professor of English*
B.A., Queen's, 1924; M.A., *ibid.*, 1925; Dean, Ursuline College. 1925

MOTHER M. ST. MICHAEL (U), *Instructor in Economics and Latin*
B.A., 1923; M.A., Catholic University of America, 1938. 1938

PETER JOHSTON SANDIFORD (C), *Instructor in Physics*
B.A. Toronto, 1938; M.A., *ibid.*, 1939. 1946

REV. HERMAN SCHORTEN (W), *Professor of German*
D.D., Hartwick, 1926. 1925

*WILLIAM GEORGE SCOTT (W),
Assistant Professor of Philosophy and Psychology
B.A., 1943. 1945

JOHN SHADA (A), *Director of Athletics*
Ph.B., Detroit, 1939. 1946

---

* On leave 1946-47.

ROBERT NEWTON SHERVILL (C), *Instructor in Romance Languages*
B.A., 1942; Knight Officer, Order of Orange Nassau (with Swords), 1945. 1946

REV. WILLIAM FRANCIS SIMPSON (P), *Professor of French*
B.A., 1930; M.A., 1936. 1935

GEORGE WINSTON SINCLAIR (C), *Assistant Professor of Geology*
B.Sc., Sir George Williams, 1944; M.Sc., McGill, 1945. 1946

CHRISTIAN SIVERTZ (C), *Associate Professor of Chemistry*
B.A.Sc., British Columbia, 1923; M.Sc., McGill, 1924; Ph.D., *ibid.*, 1926. 1926

JAMES ALBERT SPENCELEY (C), *Professor Emeritus of English*
B.A., Toronto, 1905; M.A., *ibid.*, 1909; M.A., Harvard, 1920. 1921

FRANK STILING (C), *Associate Professor of English*
B.A., McMaster, 1926; M.A., 1928; A.M., Michigan, 1939. 1928

GEORGE GORDON SUFFEL (C), *Assistant Professor of Geology*
B.Sc., Queen's, 1925; M.Sc., *ibid.*, 1927; Ph.D., Stanford, 1929. 1946

REV. PETER J. M. SWAN (A), *Associate Professor of Philosophy*
B.A., Toronto, 1938; M.A., *ibid.*, 1942; Ph.D., *ibid.*, 1946. 1946

JAMES J. TALMAN (C), *Associate Professor of History*
Lecturer in Journalism
B.A., 1925; M.A., 1927; Ph.D., Toronto, 1930. 1939

WILLIAM FERGUSON TAMBLYN (C), *Professor Emeritus of English*
B.A., Toronto, 1895; Ph.D., Columbia, 1899; Litt. D., 1944. 1901

NEALE HAMILTON TAYLER (C), *Assistant Professor of Romance Languages*
B.A., Toronto, 1939; M.A., *ibid.*, 1941. 1946

REV. CANON KENNETH ELDER TAYLOR (H),
Professor of Church History and Apologetics
B.A., Queen's, 1920; M.A., Oxford, 1926; B.D., 1933; O.B.E. 1933

ROBERT BERKELEY TAYLOR (C), *Instructor in Business Administration*
B.A., 1941. 1941

HARTLEY MUNRO THOMAS (C), *Assistant Professor of History*
B.A., Queen's, 1920; M.A., Harvard, 1923; Ph.D., *ibid.*, 1933. 1931

WALTER ALBERT THOMPSON (C), *Professor of Business Administration*
B.A., Drury, 1928; M.B.A., Harvard, 1930. 1930

ROBERT WARREN TORRENS (C), *Professor of Romance Languages*
B.S., Dartmouth, 1925; M.A., Harvard, 1926; Ph.D., Cornell, 1941. 1944

JOSEPH PAUL TRUANT (A), *Instructor in Chemistry*
B.S.A., Toronto, 1945. 1945

ERIC HAROLD TULL (C), *Instructor in Physics*
B.A.Sc., British Columbia, 1933. 1945

GORDON HASLAM TURNER (C), *Assistant Professor of Psychology*
B.A., Toronto, 1935; M.A., *ibid.*, 1936; Ph.D., *ibid.*, 1938. 1945

ADA DOROTHY TURVILLE (C), *Professor of Romance Languages*
B.A., 1917; M.A., Columbia, 1921; Ph.D., *ibid.*, 1925; certificato della R. Universita di Firenze, 1927; Adviser to Women, 1933; Dean of Women, 1942-46; F.A.G.S., 1943. 1925

REV. THOMAS JAMES VAHEY (A), *Professor of Classics*
B.A., Toronto, 1924; M.A., *ibid.*, 1926. 1926

SISTER M. VERONICA (A), *Instructor in Mathematics*
B.A., Queen's, 1929. 1942

ANSON ROBERTSON WALKER (C), *Professor of Plant Pathology*
B.A., Queen's, 1919; M.A., Toronto, 1921; F.A.A.A.S., 1933. 1925

JEAN ISABEL WALKER (C), *Instructor in Public Speaking*
A.L.C.M. 1920

REV. JOHN ARTHUR WARREN (A), *Associate Professor of French*
B.A., Toronto, 1933; M.A., Laval, 1946. 1946

JAMES KEITH WATSON (C), *Assistant Professor of Chemistry*
B.A., McMaster, 1932; M.A., *ibid.*, 1933; M.A., Toronto, 1934; Ph.D., *ibid.*, 1944; M.C.I.C., 1945. 1937

WILSON ROBERT WAUGH (C), *Instructor in Business Administration*
B.A., 1946. 1946

REV. ARTHUR JEROME WEILER (A), *Professor of German*
B.A., Toronto, 1930. 1937

REV. LESTER ALBERT WEMPLE (U, P), *Professor of Philosophy*
B.A., 1926; Ph.L., Angelicum, Rome, 1933. 1934

SHALOM WEYL (C), *Instructor in German*
B.A., Cologne, 1934; M.A., McGill, 1940. 1946

ARTHUR WOODS (C), *Professor of Mathematics*
B.A., Queen's, 1914; M.A., *ibid.*, 1915. 1920

GARNET ALEXANDER WOONTON (C), *Research Professor of Physics*
B.A., 1925; M.A., 1931. 1931

MARY JEAN WRIGHT (C), *Assistant Professor of Psychology*
B.A., 1939; M.A., Toronto, 1940. 1946

EDITH MAE YELLAND (C), *Instructor in Secretarial Science*
B.A., 1942. 1945

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

Sessional Appointments

HELEN MILDRED ALLISON (C), *Assistant in English*
B.A., 1924; M.A., Minnesota, 1941. 1924

BERTHA MARION AXFORD (W), *Lecturer in Mathematics*
B.A., McMaster, 1939. 1946

O. RALPH BLACKMORE (A), *Instructor in English*
B.A., 1943. 1946

GEORGE GORDON BROOKS (C), *Lecturer in Business Administration*
B.A., Toronto, 1932; M.A., *ibid.*, 1936. 1946

CAMPBELL CARLYLE CALDER (C), *Lecturer in Economics*
B.A., 1931; M.A., Toronto, 1933; Barrister-at-Law, 1935. 1935

PAUL N. CARRON (A), *Instructor in French*
B.A., 1945. 1945

CECIL CYRIL CARROTHERS (C), *Lecturer in Business Administration*
B.A., 1921; Barrister-at-Law, 1924; LL.B., 1926. 1928

REV. GEORGE FRANCIS CHILDS (U), *Lecturer in Religious Knowledge*
B.A., 1932; J.C.B., Catholic Univ. of America, 1937; J.C.L., Angelicum, Rome, 1938. 1939

RANDOLPH JOHN CHURCHILL (C), *Lecturer in Journalism*
1946

HENRY WILLIAM EDWARD CLEGHORN (W), *Lecturer in Fine Art*
1944

ARTHUR FRANK CONRAD (W), *Lecturer in Physical Education*
B.A., 1944. 1946

ALFRED BRANDON CONRON (C), *Lecturer in English*
B.A., 1941; D.S.O., 1945. 1946

REV. FRANCIS HERBERT COSGRAVE (H), *Lecturer in Old Testament*
B.A., Dublin, 1902; M.A., *ibid.*, 1916; LL.D., Queen's, 1929, McMaster, 1933; Toronto, 1945; D.C.L., Bishop's, 1927; D.D., Victoria, 1936. 1945

ERIC WILLIAM CROSS (C), *Lecturer in Economics*
M.A., Queen's, 1925; Barrister-at-Law, 1928; K.C.; Judge, County Court of Oxford. 1944

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

JOHN KERR ELLIOTT (C), *Lecturer in Journalism*
B.A., 1926. 1946

KINGSLEY GEORGE FERGUSON (C), *Lecturer in Psychology*
B.A., 1943. 1945

ARTHUR RUTHERFORD FORD (C), *Lecturer in Journalism*
B.A., Toronto, 1903. 1946

REV. MERVIN ANSLEY GARLAND (H), *Lecturer in Church History*
B.A., 1925; M.A., 1927. 1931

LORRAINE GAUDEFROY-DEMOMBYNES (C), *Lecturer in Romance Languages*
M.A., Columbia, 1938; Dr. de l'U. de Paris, 1943. 1946

REV. ROY NORMAN GROSZ (W), *Lecturer in Greek*
B.A., 1944. 1946

REV. REGINALD PERCIVAL DAN HURFORD (H), *Lecturer in New Testament*
B.D., Wycliffe, 1920; D.D., *ibid.*, 1934. 1944

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

ELEANOR CROYSDALE DOHERTY JARED (Mrs. A.) (C), *Lecturer in English*
B.A., 1926; M.A., Toronto, 1929; M.A., Radcliffe, 1930; Ph.D., *ibid.*, 1934. 1930

CARSON ELSTON JOHNSON (C), *Lecturer in Psychology*
B.A., 1946. 1946

ALETHEA JOHNSTON (W), *Lecturer in Library Science*
B.A., 1934; B.L.S., Toronto, 1939. 1946

REV. ULRICH LEUPOLD (W), *Director of Music and Lecturer in Greek*
Ph.D., Berlin, 1932. 1945

LAWRENCE J. MARTELLO (C), *Lecturer in Business Administration*
B.A., 1945; M.S., Cornell, 1946. 1946

PATRICK L. MCMANUS (A), *Instructor in History*
B.A., 1926. 1946

JAMES FENWICK MCMILLAN (C), *Lecturer in Journalism*
B.A., 1920. 1946

ELLA MARGARET MODERWELL (C), *Lecturer in Library Science*
B.A., 1944. 1945

FLORENCE EVELYN MORRIS (Mrs.), *Demonstrator in Geology*
B.A., Toronto, 1939. 1946

MARION SHIPLEY MOSS (C), *Demonstrator in Botany*
B.Sc., Alberta, 1945. 1946

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

GEORGE ROBERT MUNRO (W), *Lecturer in Business Administration*
B.A., 1932; M.A., 1933. 1946

STANLEY NANTAIS (A), *Instructor in Physical Education*
1943

JEAN THOMPSON NEVILLE (Mrs. K. P. R.) (C), *Instructor in English*
B.A., 1910; M.A., 1923. 1921

NORMAN LEON NICHOLSON (C), *Lecturer in Geography*
B.A., 1943. 1946

JOHN A. PHILP (A), *Instructor in English and History*
B.A., 1939. 1946

ORVILLE ROLFSON (A), *Lecturer in Mathematics*
B.A., Toronto, 1907; M.A.Sc., *ibid.*, 1915. 1943

JEAN CHARLOTTE SCHMIEDER (Mrs. Henry) (W), *Lecturer in English*
B.A., 1943. 1944

URITH TAYLOR SEYMOUR (W), *Lecturer in English*
A.T.C.M., Toronto, 1914; L.C.S.E., *ibid.*, 1915. 1945

CHARLES HUBERT SPRY (W), *Lecturer in Business Administration*
B.A., 1938; C.A., I.C.A., Ontario, 1941. 1946

ELEANOR GRAVES TORRENS (Mrs. R. W.) (C), *Lecturer in Economics*
B.A., North Carolina, 1928; M.A., *ibid.*, 1929. 1945

REV. CANON ASHLYN AITKEN TRUMPER (H), *Lecturer in Homiletics*
L.Th., Huron, 1924. 1935

T. HAROLD USHER (A), *Lecturer in English*
B.A., Detroit, 1945. 1945

CHARLOTTE PAULA WADE (ALMA), *Instructor in Home Economics*
B.Sc., Mt. Allison, 1944; M.A., Columbia, 1945. 1945

VIRGINIA E. WITTIG (W), *Instructor in Physical Education*
D.P.E., Margaret Eaton, 1937. 1944

MARY LOUISE WYATT (C), *Lecturer in English*
B.A., 1929. 1946

* On leave 1946-47.

Objectives

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

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

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

---

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

Regulations

ADMISSION

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

A. Grade XII Certificates

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

I. English.
History.

II. Latin or Mathematics.

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

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

No Option may be counted more than once.

B. Grade XIII Certificates

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

---

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

The Grade XIII subjects are:

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

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, under the above regulations, may still secure credit in a subject by obtaining at least fifty per cent. on each paper of the subject, not necessarily at one examination.

EQUIVALENT EXAMINATIONS

Certificates of having passed Secondary School subjects parallel to Grade XII or Grade XIII subjects named above may be accepted *pro tanto*, provided always that the standards of these certificates meet the requirements of this University.

The senior local examinations conducted by the University of Oxford and by the University of Cambridge may be accepted instead of Grade XIII (Upper School) standing in the same subjects.

ADVANCED STANDING

From Collegiates. Candidates presenting Grade XIII certificates in Ancient or Modern Languages, or History, or Mathematics, or the recognized equivalents of such certificates, may be credited with the corresponding subjects in the Junior Groups. For Sciences, see pages 60, 63, 65, 66.

From Universities. All applications for advanced standing, except on certificates indicated above, must be accompanied by official certificates from the institution

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

where work has been done, and be presented to the Registrar not later than 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.

ADULT SPECIAL STUDENTS

Students who are over twenty-one years of age, though they may not be able to present qualifications for admission to candidacy for degrees, may be admitted to classes in the Faculty of Arts 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

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

Junior Groups.

Students presenting either Grade XII or Grade XII and Grade XIII certificates will register in one of the Junior Groups (pp. 61-2) or one of the special courses (pp. 63-9).

Grade XIII standing in any subject will exempt a student from the first year of the general course in the same subject (except the sciences), if that subject is included in a Junior Group. (For details of allowances, see page 60).

Senior Group or Honors.

Students who have completed a Junior Group must register either in one of the Senior Groups (pages 62-3) or in an Honors Course for which they have specific prerequisites. (See pages 71-91).

Medical Examination.

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

Fees.

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

A student whose fees have not been paid to date may not write any midyear or final examinations.

For fees for extra credits, see page 42.

LENGTH OF COURSES

The General, Home Economics, Secretarial Science and Theological Courses are four-year courses for those entering on Grade XII standing, but they can be completed in three years of satisfactory work by a student

who presents credits obtained at the examinations of the Department of Education of Ontario in four Grade XIII subjects (eight papers) corresponding to subjects prescribed in the first year of each course (see page 60). The course for Teachers of Elementary Schools requires three years (pp. 67-68). The Honors Courses, except as mentioned below, are five-year courses from complete Grade XII standing, or four-year courses from Grade XIII standing in four subjects. The Honors Courses in Philosophy, except in University College, require four years for complete Grade XII (pp. 87-9).

EXAMINATIONS

General Courses.

Regular examinations will be held for the General Courses in January and in May. Students must obtain the required percentage, at least 50, both for the first and for the second term's work in each course.

Students in the General Courses will be ranked in order of merit in each course in six grades, A, B, C, D, E, F. The minimum for Grade A is 75 per cent. of the marks obtainable; for Grade B, 66 per cent.; for Grade C, 60 per cent.; for Grade D, the minimum passing grade, 50 per cent. A mark that falls in Grade E, 40 to 49 per cent., entitles the student to a supplemental, subject to the regulations governing supplementals (see page 39). Grade F, less than 40 per cent., indicates a total failure and the necessity of repeating the course in class.

No student will be admitted to the degree of Bachelor of Arts in the General, the Home Economics, the Secretarial, the Theological or the Teachers' Course who has not obtained at least Grade D on all the prescribed and elective work of his course and who has not obtained at least Grade C on one-half the credits required for a Senior Group, or for the third and fourth years, and Grade C on one-half the credits of his senior year.

Honors Courses.

The regular examinations for the Honors Courses will be held in May; but when an Honors Course or a definite portion of an Honors Course has been completed by the end of the first term, the instructor may set a **final** examination on the completed work. This examination is to be held during the regular January examination period. Third and fourth year Honors classes in which examinations are not set may continue without interruption during the mid-year examination period.

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 entitle the candidate to a General and not an Honors degree (page 40).

Students in an Honors Course, who do not obtain at least third class standing in the work of the second year, are not permitted to continue in

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

Comprehensive Examinations.

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

Term work.

In all subjects of the General Course, except the sciences, the ratio of term-work marks to examination marks is 50 to 100. To pass, a student must obtain 50 per cent. on the whole of a subject, with 50 per cent. in term work and 50 per cent. in examinations. In the sciences the ratio of term-work marks to examination marks is determined by the teaching staff in each subject.

In Honors Courses the ratio of term-work marks to examination marks is determined by the teaching staff in the subjects involved.

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

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

SUPPLEMENTALS

A supplemental examination is one set on work in which a student has been conditioned (40 to 49 per cent.). This examination will be held in August for those who have been conditioned in the first term or in the second term or in the work of the whole year in any course. (See second paragraph under **Failures,** p. 40).

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

Supplemental examinations will not be allowed any student in more than four credits of work.

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

No supplemental examination will be allowed in 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, January, May or August. No special examination may be assigned except on the recommendation of the head of the department concerned, after consultation with the intructor involved. (Often students should be advised to adopt the alternative of repeating the lectures and taking the next regular examination without fee.)

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

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

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

FAILURES

A student who fails at any mid-year examination in one-third of his registered credits may be dropped from the University for the second term of the year, but he may re-register for the following winter session. No credit will be given for the part of his work successfully carried in the first term unless in a course that has been completed.

General Course.

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

A student may take no course oftener than twice.

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

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

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

Honors Course.

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.

English Language.

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

FEES

A student on admission each year, by his registration, subscribes to the regulations as announced from time to time in the University official announcements. On registration day his total fees, except examination and degree fees, become due and payable. While the payment of these fees by agreement, may be divided into instalments, no student without such agreement **in writing** may attend any class session or lecture or laboratory. No student shall, except by special permission of the Dean of a Faculty, present himself for any examination until his current fees are paid in full. Nor shall any student be recommended for any certificate, diploma or degree until his tuition fees and other accounts owed to the University are paid.

ATTENDANCE AT LECTURES

First and second year students who have attended less than 80 per cent. of the lectures in a course **for any term** shall be debarred from taking the regular examinations on that course. This rule holds for all courses numbered in the tens or the twenties or the two hundreds regardless of the year of a student's registration in the University.

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

APPEALS

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

CONDUCT

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

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

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

GENERAL

When a student begins a foreign language in the University, no credit towards a degree will be given for the first year of that language unless that year is followed by a second year in the same language. No student may begin two foreign languages in the same year.

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

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

A student may take only three credits more than the number required of the academic year in which he registered. Permission to take more than three extra credits may be given by the Committee on Academic Standing. For extra credits taken by permission of this Committee, an extra tuition fee of $10.00 a credit and the usual laboratory and caution fees will be charged.

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

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

Teachers' Course

University College offers under the three departments listed below a course for those who for various reasons find it impossible to attend the winter sessions for all the work necessary for a degree in Arts. For outline of course see page 67-8.

I. EXTRAMURAL DEPARTMENT

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

No extramural student is eligible for a degree, unless he has attended classes in this University for two academic years or for one academic year and two summer schools, or for six summer sessions.

No student may take intramural and extramural work concurrently.

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

II. SUMMER SCHOOL

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

The subjects offered in the Summer School are taken from the courses of the winter session for General Course students, 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 extramural work is contained in the Summer School Announcement and the Bulletin on Summer School and Extramural Work. These may be had by applying to the Registrar or to the Director of the Summer School and Extramural Department.

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. Trois-Pistoles, P.Q.

III. EXTENSION DEPARTMENT

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

Public School Inspectors' Certificates

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

(1) An Honors Degree in Arts or Science in accordance with the present agreement as prescribed for Specialist qualifications (see page 44); or

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

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

For the professional requirements candidates should consult the Department of Education, Toronto 2, Ont.

High School Assistants' Certificates

I. Ordinary Certificates

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

II. Specialist Certificates

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

For the University of Western Ontario, the courses in the departments specified above shall be the Honors Courses as defined in the Announcement of the Faculty of Arts and Science for 1947-1948.

The courses shall extend over at least five years from Pass Matriculation or, as may be determined under the regulations of the University, over four years from Honor Matriculation in four subjects.

Candidates shall attend for at least two full academic years, the third and fourth. Under the direction of the University, the rest of the course may be taken by Summer School and Extramural study.

The Minister shall have authority to deal with any case not already covered. The University shall submit to the Minister a recommendation on any case whose merits justify special consideration.

NOTE: Graduates in general or pass courses who wish to obtain Type A standing should consult a special pamphlet to be obtained from the Registrar.

The Master's Degree

Academic Qualifications.

A candidate must be a graduate in Arts or Science of this or some other accredited university. A graduate in an Honors Course in Arts or Science must have obtained at least 66% in the last two years of his course. A graduate in a General Course must have obtained in the last two years at least 66% of the total marks possible. He must spend one year in residence raising his standing to that of an Honors graduate: sixteen credits, chosen on the advice of the Dean and the heads of the departments concerned, must be completed with an average of at least 66 per cent. This year does not satisfy the attendance requirement (mentioned below) imposed on all candidates for the Master's degree.

Graduates of accredited universities will be accepted as candidates for the degree after they have presented to the Registrar official evidence that they have obtained the degree of B.A. or B.Sc., and that their standing in the last two years of their courses corresponds to the standard described in the preceding paragraph.

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

It is essential that the candidate for an M.Sc. degree have a reading knowledge of scientific French and German; if he lacks this qualification he may be required to take a course in the necessary language as a minor subject.

Each candidate must register and pay his fees to the Comptroller not later than October 4th.

Period of Study.

The duration of the course is one year in residence for full-time students or two years in residence for those holding teaching or demonstrating appointments. No courses taken by correspondence shall count toward an M.A. or an M.Sc. degree.

Course of Study.

The course may comprise one major subject, or a major subject and one minor subject, or a major subject and several minor subjects; the language requirement will, as stated, constitute a minor subject. Minor subjects may be taken, without restrictions, in the Faculty of Arts and Science or the Faculty of Medicine or both faculties. Both written and oral examinations shall be taken in the major subject; written examinations only shall be taken in the minor subjects.

Before his registration the candidate will choose his major subject; on the advice of the head of the department, in which this major subject falls, he will then select his minor subject or subjects. The Faculty of Arts and Science will then appoint a supervisory committee.

At least 12 university credits must be satisfactorily completed in the course. A thesis in the major subject shall normally be required, and from 3 to 8 credits may be allowed for it. The examinations will be held during the regular examination periods. A representative of another department may be invited to attend the oral examination in the major subject. A candidate must attain a standing of at least 66% on the thesis, as well as on all written and oral examinations.

Thesis. Each candidate must submit to the Registrar, through his supervisory committee, an outline of his proposed thesis, if any, not later than January 5th.

Two typewritten or printed copies of the completed thesis, bound in the form approved by the Librarian, must be in the hands of the Registrar not later than May 1st, and must be accompanied by the fee of $20. The thesis, if approved, shall become the property of the University. Publication of the thesis, whether in the original or in a modified form, may only be effected with the express permission of the Faculty or Faculties concerned.

Honors. The degree with Honors may be granted to a candidate under the following conditions. He must have obtained First Class Honors in each of the last two years of his course in Arts and Science, as well as First Class Honors for his thesis and in his final examinations; and finally, the degree with Honors may only be granted on the specific recommendation of the supervisory committee.

The LL.B. Degree

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

(a) An Honors Degree in the Department of Economic and Political Science from the University of Western Ontario or some other acceptable university or college.

(b) A certificate of graduation from Osgoode Hall and of admission to the practice of law in the Province of Ontario, or equivalent certificates.

The work itself consists of:

(a) Reading courses and examinations in each of the following subjects (see p. 143).
Domestic Relations, Medical Jurisprudence, Theory of Obligation, Corporations.

(b) An approved thesis on an assigned subject.

A typewritten or printed copy of the completed thesis, bound in the form approved by the Librarian, must be in the hands of the Registrar not later than May 1st. If the thesis is typewritten, the original and not a carbon copy must be submitted. Upon being approved the thesis shall become the property of the University.

Diplomas

(a) **Home Economics:** two years' undergraduate work; (see p. 66).

(b) **Business Administration:** one year's work for graduates in departments other than Business Administration. (For details see p. 73).

(c) **Public Administration:** one year of work for graduates in departments other than Business Administration or Economics. (For details see p. 74).

Medals, Scholarships and Prizes

I. Undergraduate

UNIVERSITY

University Gold Medals for competition in the final year of these Honors Courses offered by University College of Arts and Science:

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

The Joseph J. and Annie R. Kingston Gold Medal: final year Mathematics, University College.
(Endowed by Dr. H. R. Kingston in memory of his parents.)

Governor-General's Medal: Senior Group, General Course.

Ursuline College of Arts Gold Medal: fourth year Home Economics.

UNIVERSITY COLLEGE

Except in the case of fourth year awards, these Scholarships and Prizes will be paid only to students who are in actual attendance and carrying a full year's work in the University during the year following the award.

Unless otherwise indicated, the Scholarships and Prizes available in University College are provided by the Board of Governors of the University.

Scholarships: Fifty dollars each, for general proficiency in the following:

(a) Junior Group 1.

(b) Junior Group 2: the F. G. Jewell Scholarship.
(Given in memory of the late Francis G. Jewell, C.A., former Auditor of the University.)

(c) Junior Group 3: the W. J. Roche Scholarship.
(In honor of the late Hon. W. J. Roche, M.D., LL.D., C.M.G., former Chancellor of the University.)

(d) Junior Group 4: the B'Nai Brith Scholarship.
(Given each year by the London Branch of the Order.)

Scholarships: Sixty dollars each for best standing in the following SECOND YEAR HONORS COURSES:

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

THIRD YEAR HONORS COURSES:

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

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

The Hon. Edward Blake Scholarship, No. 2: Sixty dollars; for Honors Economic and Political Science, Third Year.

(These two Scholarships were endowed by the late Major Hume Cronyn, K.C., M.P., in memory of his uncle, the Hon. Edward Blake, sometime Premier of Ontario and later member of the British House of Commons. These Scholarships will be awarded at the discretion of the Scholarship Committee.)

The Andrew Grant Scholarship, No. 1: Sixty dollars; for Honors Economic and Political Science, Second Year.

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

The Andrew Grant Scholarship, No. 3: Sixty dollars; for Honors Social Science, Second Year.

The Andrew Grant Scholarship, No. 4: Sixty dollars; for Honors Social Science, Third Year.

(These Scholarships were bequeathed to the University by Mrs. Grant as a memorial to her husband, Mr. Andrew Grant, St. Thomas.)

The John Gordon McIntosh Scholarship, No. 1: Sixty dollars; for Honors Mathematics and Physics, Second Year.

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

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

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

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

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

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

The Wilhelmina and J. Gordon McIntosh Scholarships in Public Speaking: Two scholarships of $35 each, two of $25 each and two of $15 each are open to all students in the constituent faculties of the University; one thirty-five dollar, one twenty-five dollar and one fifteen dollar scholarship will be awarded to men and the other three of the same value to women. Not offered in 1947-8.

The Wilhelmina and J. Gordon McIntosh Junior Fellowship, No. 1: One hundred and eighty dollars; Honors Business Administration, Fourth Year.

The Wilhelmina and J. Gordon McIntosh Junior Fellowship, No. 2: One hundred and eighty dollars; Honors Geology and Geography, Fourth Year.

(These Scholarships and Fellowships were bequeathed to the University by the late Wilhelmina Morris McIntosh, of Winnipeg and London.)

The Albert O. Jeffery Scholarship, No. 1: Sixty dollars: for Honors Biology, Second Year.

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

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

(These three Scholarships were bequeathed to the University by the late Mrs. Jeffery as a memorial to her husband, Mr. Albert O. Jeffery, K.C., D.C.L., LL.D., former President of the London Life Insurance Company.)

The A. N. Knowles Scholarship: Sixty dollars; for Honors Chemistry, Second Year.

The J. C. Knowles Scholarship: Sixty dollars; for Honors Chemistry Third Year.

(The above Scholarships are donated to the University as memorials by Mrs. A. N. Knowles, London.)

The William Wyatt Scholarship, No. 1: Sixty dollars; for Honors English Language and Literature, Second Year.

The William Wyatt Scholarship, No. 2: Sixty dollars; for Honors History, Second Year.

(The capital fund for these Scholarships was bequeathed to the University by the late William Wyatt, of London.)

The Myrtle Rowntree Memorial Scholarship: Sixty dollars: for Honors English Language and Literature, Third Year.

(This scholarship was established as a memorial to the late Myrtle Martindale Rowntree, a 1919 graduate in Honor English and History, by her brothers and sisters.)

Bruce County Scholarships: Two, one hundred dollars each, one for the man, one for the woman, from Bruce County who stands highest in any year of any regular course in the University. These scholarships can be held only once by any student: an award won a second time reverts to the student coming next in order of merit.

(These Scholarships were voted by the County Council of Bruce County in June, 1945.)

Elgin County Scholarships: Two, one hundred dollars each, one for the man, one for the woman, from Elgin County (excluding the City of St. Thomas) who stands highest in any year of any regular course in the University.

(These Scholarships were voted by the County Council of Bruce County in 1947).

Huron County Scholarships: Two, one hundred dollars each, one for the man, one for the woman, from Huron County who stands highest in any year of any regular course in the University.

(These Scholarships were voted by the County Council of Huron County, in June, 1944, for annual competition among Huron County students in attendance at the University of Western Ontario.)

I. O. D. E. Municipal Chapter Bursary: Sixty dollars; awarded in the autumn to the student registered in the Applied Biology option who stood highest in Third Year Honors Biology during the preceding session. The bursary may be awarded, under special circumstances, to a student registered in a course other than Applied Biology.

(This Bursary is given annually by the Municipal Chapter, Imperial Order of the Daughters of the Empire, London.)

I. O. D. E. William E. Saunders Chapter Bursary: Sixty dollars; awarded in the autumn to the student registered in the Botany option who stood highest in Third Year Honors Biology during the preceding session. The bursary may be awarded, under special circumstances, to a student registered in a course other than Botany.

(This Bursary is given annually by the William E. Saunders Chapter, Imperial Order of the Daughter of the Empire, London).

Khaki University and Y. M. C. A. Scholarship: Sixty dollars; for the highest average obtained by an ex-service man or 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 for these Scholarships were the gift of the Women's Liberal Association.)

The Joseph Henry Marshall Scholarship: Sixty dollars; for Honors History, Third Year. Open only to Canadian-born students. To be awarded in 1947-48.

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

Ursuline College Home Economics Scholarships: See page 52.

University College Prizes: Ten dollars each:

English 40 or 45;
History 45, 46;
English 30;
French 30;
Economics 20;
Business 20;
Psychology 20;
English 10;

History 36;
Philosophy 30;
English 20;
English 21;
Latin 20 or Greek 20;
French 20 or German 20;
Latin 10 or Greek 10;
Mathematics 10, 12;
Botany 10 or Zoology 10;
Chemistry 10 or Physics 10;
French 10 or German 10.

Wilhelmina and J. Gordon McIntosh Prizes in Public Speaking: one prize of $25, and one of $15, and eleven of $10 each, are open to students registered in English 19, under terms specified by the Scholarship Committee. Not offered in 1947-8.

W. W. Tamblyn Prize: Ten dollars; Second Year English Composition (English 21). *Given in alternate years, next in 1947-48.*
(The capital fund for this prize was bequeathed to the University by the late W. W. Tamblyn, Esq., of Bowmanville.)

Alumnae Association Prize: Ten dollars; Third Year Canadian History (History 31); only women are eligible for competition.

Gamma Phi Beta Alumnae Jubilee Prize: Ten dollars; Third Year Secretarial Science (Secretarial Science 37, 38, 39).

Alpha Kappa Psi Medallion: a Medallion, the gift of the Alpha Kappa Psi Fraternity, will be awarded annually to the student in Business Administration, who, upon completion of his Junior Year, has attained the highest two-year average in scholarship. Only male students who have had all their training in this University are eligible for this award.

Alpha Kappa Psi Diplomas: two Diplomas, the gift of the Alpha Kappa Psi Fraternity, will be awarded annually to the Freshmen who stand highest in the Business Administration of Junior Group 2 and the Economics of Junior Group 2, respectively. Only male students will be eligible for these awards, which will be made in October after the registrations for Honors Business Administration and for Honors Economics have been completed.

SUMMER SCHOOL PRIZES, UNIVERSITY COLLEGE

The Helen M. Benson Prize: Fifteen dollars; Astronomy (Mathematics 29).
(Endowed by T. C. Benson.)

The Thomas Albert Mara Prize: Fifteen dollars; Canadian History (History 31).
(Donated by W. L. Mara.)

The Clara Long Mara Prize: Ten dollars; Art (Art 20T).
(Donated by W. L. Mara.)

The Director's Prize: Ten dollars; Civics (Economics 30a).
(Donated by Dr. H. R. Kingston.)

The Dr. W. E. Saunders Prize: Fifteen dollars; Nature Study (Applied Biology 23S).
(Donated by Mrs F. H. Fetherston.)

SUMMER SCHOOL FOR FRENCH AND ENGLISH

TROIS-PISTOLES, QUEBEC

Robert Simpson Company, Limited, Scholarship for French: One hundred and fifty dollars. Applications for this scholarship will be received by the Registrar up to April 1st; the winner will be selected by a special committee. Preference will be given to students of the University of Western Ontario.

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

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

W. Sherwood Fox Scholarship: Sixty dollars. The winner will be selected by a special committee.

Director's Prizes: Two of five dollars each, for the best speeches in English by members of the English classes.

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

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

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

La Croix Cup: French Conversation, open to beginners; awarded on the results of an examination by a committee of Trois-Pistoles citizens.

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

URSULINE COLLEGE

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

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

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

Home Economics, No. 1: Twenty-five dollars, for Third Year Clothing (Home Economics 30x).

Home Economics, No. 2: Twenty-five dollars, for Third Year Foods (Home Economics 32x).

II. Graduate

THE J. WILLIAM HORSEY FELLOWSHIP

Value $1,500 a year for two years, and a third year at the discretion of the Committee of Selection; for research in Food Distribution; open to graduates in Business Administration of the University of Western Ontario or of any Commerce course of equivalent standard in the Dominion of Canada.

Applications should be submitted to the Registrar of the University, not later than May 1st of the year of award.

Application forms and information obtainable from the Registrar or from the Head of the Department of Business Administration of the University of Western Ontario.

(This Fellowship is donated by Dominion Stores Ltd. by and through the president, Mr. J. W. Horsey.)

WALTER P. ZELLER FELLOWSHIP

Open to graduates in Commerce or Business Administration of Canadian Universities who plan to specialize in Retailing at the University of Western Ontario. Value $1,000 a year. The award may be renewed for a second year.

Applications should be submitted not later than May 1st, to the Registrar.

THE RHODES SCHOLARSHIPS

A Rhodes Scholarship is tenable at the University of Oxford and may be held for three years.

The stipend of a Rhodes Scholarship is fixed temporarily at £500 per year. Scholars who can afford to supplement it by, say, £50 per year from their own resources will find it advantageous to do so.

CONDITIONS OF ELIGIBILITY: A candidate to be eligible must:

1. Be a British subject, with at least five years' domicile in Canada; if he has had less than one year of war-service, he must be unmarried and have passed his nineteenth, but not his twenty-fifth birthday on October 1st of the year for which he is elected.
2. Have reached such a stage in his course at one of the Universities of Canada that he will have completed at least two years at the University in question by October 1st of the year for which he is elected.

Candidates may apply either for the province in which they have their ordinary private domicile, home, or residence, or for any province in which they have received at least two years of their college education before applying.

Full particulars can be obtained from R. C. C. Henson, Esq., 25 Melinda St., Toronto, Ontario, Secretary of the Selection Committee for the Province of Ontario.

Each candidate for a Scholarship is required to make application to the Secretary of the Committee of Selection of the province in which he wishes to compete, not later than November 10th. Preliminary applications of all University of Western Ontario candidates must be filed, before November 1st, with the Registrar, from whom application forms may be obtained.

DAUGHTERS OF THE EMPIRE OVERSEAS SCHOLARSHIP

As part of their War Memorial the Imperial Order Daughters of the Empire offer annually in each province in Canada a scholarship for one year's post-graduate study in Britain. The value of the scholarship is $1,500.

This scholarship is subject to the following conditions:

1. Candidates may be men or women. They must be British subjects, with at least five years' residence in Canada, and unmarried. Each candidate must either hold a degree from a University or College in Canada, and must have done or be doing post-graduate work.

2. In each province a committee of selection will award the scholarship. Other things being equal, preference will be given to a returned man or woman. The Committee will consider not only the academic record of the candidate, but his or her character, physical fitness and promise.

3. Applications for this scholarship should be sent, before October 15th, to the Provincial Educational Secretary, I. O. D. E., 168 Jackson St. W., Hamilton, Ontario, who will provide additional information about the scholarship.

CANADIAN FEDERATION OF UNIVERSITY WOMEN SCHOLARSHIPS

The Canadian Federation of University Women offer the following scholarships:

I. Senior: Value $1,250, available for study or research work, open to any woman holding a degree from a Canadian University, who is not more than 35 years of age at the time of award. In general, preference will be given to those candidates who have completed one or more years of graduate study and have a definite course of study or research in view.

II. Junior: Value $850, open to any woman holding a degree from a Canadian university, who is not more than 25 years of age at the time of award. Preference will be given to students who have studied in only one university and who desire to continue their studies in another.

III. Professional: Value $700, available for study in a professional school, open to any woman holding a degree from a Canadian University, who is not more than 35 years of age at the time of the award.

The awards are based on evidence of character, intellectual achievement and promise of success in the subject to which the candidate is devoting herself.

The proposed place and plan of study or research must be approved by the Scholarship Committee. Applications and recommendations must be received not later than February 1st.

Application blanks and further information may be obtained from the Convener of the Scholarship Committee, Mrs. Frank M. Ross, 4899 Belmont Ave., Vancouver, B.C.

III. Admission

Candidates must notify the University of Western Ontario by May 1st (on forms provided on request) of their intention to compete for scholarships the following June.

LEONARD SCHOLARSHIPS

The income of a trust created by the late Lieut.-Col. and Mrs. R. W. Leonard, St. Catherines, Ont., will be expended in paying part of the college expenses of selected students at several institutions of Canada, including the University of Western Ontario, for from one to four years. The details of qualification and the procedure of application for these scholarships may be secured by corresponding with the trustees of the foundation, The Toronto General Trusts Corporation, Toronto, Ontario, or with the Registrar of the University of Western Ontario.

ONTARIO HOCKEY ASSOCIATION SCHOLARSHIP

The Ontario Hockey Association has founded a scholarship to be awarded annually on the results of Grade XIII examinations held by the Department of Education of Ontario the June preceding the award. The following conditions obtain:

1. The candidate must have complete entrance requirements for the course he intends to pursue;

2. The marks on the candidate's six best papers only will be considered; minimum average for qualifying contestant, 66 per cent.;

3. If in any year no candidate reaches the minimum qualifying average no scholarship for that year will be awarded.

In making the award the following points will be considered:

1. Academic qualification;

2. Financial need (to be supported by affidavits).

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

THE ONTARIO KNIGHTS OF COLUMBUS SCHOLARSHIPS

The Ontario State Council of the Knights of Columbus has established four scholarships for competition among the Catholic students writing upon the Grade XIII examinations conducted by the Department of Education of Ontario. A scholarship, which has a value of $100.00 a year, will be paid to the successful student during his course, but not for more than four years. The student may attend any University or Catholic School of Philosophy in Ontario, or Osgoode Hall, or any other University, or Catholic School of Philosophy approved by the State Executive. If the University chosen has a Catholic college in federation or affiliation, the student must enroll through this Catholic college; the student registering in the Faculty of Arts and Science of the University of Western Ontario must enroll in either Assumption College, Windsor; Ursuline College, London, or St. Peter's College, London.

Application forms for these Scholarships may be obtained from Mr. J. W. C. Tierney, the State Secretary of the Knights of Columbus, Arnprior, Ont., with whom they must be filed on or before the first day of May in the year in which the examination is to be completed. All other communications about these Scholarships must be made to the Secretary, from whom further information may be obtained on request.

UNIVERSITY COLLEGE

1. The following scholarships will be awarded on the results of the Grade XIII examinations of 1947.

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

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

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

5. The winners of the scholarships must register in University College.

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

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

I. **Two General Proficiency Scholarships** awarded on nine papers:
   (a) English, Mathematics (any two), History, two foreign languages;
   (b) English, Mathematics (Algebra, Geometry, Trigonometry), a language and a science, either Physical (Physics and Chemistry) or Biological (Botany and Zoology).

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

II. Eight Scholarships awarded on six papers:

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

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

III. Scholarships of Free Tuition (up to $125.00 a year) for two years, for competition in each Collegiate Institute, Vocational School and High School whether Commercial, Agricultural or Academic, in the counties named in the University of Western Ontario Act, 1923, viz.: Essex, Kent, Elgin, Norfolk, Brant, Oxford, Middlesex, Lambton, Huron, Bruce, Grey, Perth, Wellington and Waterloo; and all the cities situated therein. The successful candidates must have an average of at least First Class Honors (75 per cent.) in eight papers of the examination written in June of the year of the award, and chosen from the following subjects: English, German, Greek, French, History, Latin, Mathematics, Spanish, Botany, Zoology, Physics, Chemistry: total value of each scholarship, $250.00.

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

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

URSULINE COLLEGE

The Ursuline College of Arts offers the following Residence Scholarships for competition among Grade XIII students:

Josephine Gaukler Memorial Scholarships: 2, value $150.00 each;
Mother Mary Clare Gaukler Scholarships: 2, value $150.00 each;
Sir Philip Pocock Memorial Scholarships: 2, value $150.00 each;
Elsie Perrin Williams Memorial Scholarship: value $150.00.

These seven scholarships may be held only by students in residence at Brescia Hall.

Elsie Perrin Williams Memorial Scholarship, for non-residents: value $50.00 tuition.

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

Address Scholarship communications to

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

Fees

Fees are payable 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.

Tuition and Prescribed Accessory Fees

For full-time intramural students, including graduates

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

Science (Pass and Honors), Home Economics and Nursing	$235.00*
Business Administration, Journalism, Psychology and Secretarial Science	$205.00*
All other courses	$200.00*

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

(2) For DVA students these sums will be $225, $195 and $190, respectively, because Student Health Insurance is not included.

(3) For non-Canadian students these sums will be $400, $350 and $340, respectively.

For part-time students

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

Examinations

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

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

Late Registration

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

Certificates

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

Degrees and Diplomas

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

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

Student Expenses

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

Tuition, etc.	$200.00 to $235.00
Board (30 weeks)	270.00 to 360.00
Books and Supplies	50.00 to 75.00
	$520.00 to $670.00

Explanation of Number System

First year general courses are numbered between 10 and 19.

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

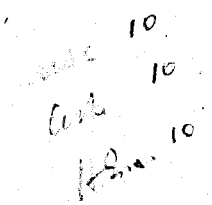
Third year general courses are numbered between 30 and 39; third year honors courses, between 300 and 399.

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

Graduate courses are numbered between 500 and 599.

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

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



Requirements For Degrees

All students, on entering the Faculty of Arts and Science, will register in one of the following courses:

I. (a) JUNIOR GROUP 1—Leading to Senior Group A, page 62, for General Course degree, with Science options, or to Honors Mathematics or Honors Science courses.

(b) JUNIOR GROUP 2—Leading to Senior Group B, page 63, or Journalism, page 69, for General Course degree, or to
Honors Business Administration,
Honors Business Administration and Secretarial Science,
Honors Economic and Political Science,
Honors Philosophy and Psychology, (except in affiliated colleges, see pages 88-9).
Honors Social Science.

(c) JUNIOR GROUP 3—Leading to Senior Group B, page 63, for General Course degree, or to
Honors English Language and Literature,
Honors English and French,
Honors English and Latin,
Honors History.

(d) JUNIOR GROUP 4—Leading to Senior Group B, page 63, for General Course degree, or to
Honors Classics.
Honors French and German,
Honors French and Latin,
Honors French and Spanish.

II. SECRETARIAL SCIENCE COURSE, page 63-4.

III. THEOLOGICAL COURSE, pages 64-5.

IV. NURSES' COURSE—Leading to the degree of Bachelor of Science in Nursing, pages 65-6.

V. HOME ECONOMICS COURSE, pages 66-7.

VI. TEACHERS' COURSE, pages 67-8.

VII. JOURNALISM: See Junior Group 2 above.

VIII. GENERAL SCIENCE—Leading to a General Course degree with Science options, or to Honors General Science, or to Medicine, pages 69-71.

I. GENERAL COURSE

Requirements for Admission: Secondary School Graduation Diploma (page 35).

ADVANCE STANDING

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

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

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

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

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

Junior Group 4: English; Latin; two other foreign languages and Mathematics (any two papers) or three other foreign languages.

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

JUNIOR GROUP 1

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

Subject	*Credits*
English 10, 11, 19, 20, 21 (pp. 121-2)	7
French 10, or German 10 (p. 177, p. 130)	3
Library Science 10 (p. 142)	½
Mathematics 10, 12, 18 (p. 144)	4½
Physical Education 10 (pp. 164-5)	1
Five of:	
Botany 10 (p. 92)	3
Chemistry 10 (p. 104)	3
Geology 10 (p. 125)	3
Mathematics 24 (p. 145)	4
Physics 10 (p. 166)	3
Zoology 10 (p. 96)	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 and Psychology, and Social Science. It is also the prerequisite for Journalism.

English 10, 11, 19, 20, 21 (pp. 121-2)	7
Library Science 10 (p. 142)	½
Mathematics 10, 12, 18 (any two) (p. 144) or Latin 10 (p. 109)	3
Physical Education 10 (pp. 164-5)	1
Business 20 (p. 101)	3
Economics 20 (p. 115)	3
Psychology 20 (p. 159)	3
Biological or Physical or Geological Science 11 (p. 92, p. 166, p. 126)	3
Two languages, or one language and one science from: *German 1, *Greek 1, *Spanish 1, French 10, German 10, Greek 10, Latin 10, (or 20), Hebrew 10, Spanish 10, Russian 10, Applied Biology 23, Geology 10, Zoology 20 or 26	7 or 6
One of: *German 10, *Greek 10, *Spanish 10, French 20, German 20, Latin 20 (or 30), Greek 20, Hebrew 20, Spanish 20, Russian 20	3

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

---

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

JUNIOR GROUP 3

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

Subject	*Credits*
English 10, 11, 19, 20, 21 (pp. 121-2)	7
Library Science 10 (p. 142)	½
Mathematics 10, 12, 18 (any two), (p. 144) or Latin 10 (p. 109)	3
Physical Education 10 (pp. 164-5)	1
History 14, 20 (p. 133)	6
Biological or Physical or Geological Science 11 (p. 92, p. 166, p. 126)	3
Two of: *German 1, *Greek 1, *Spanish 1, French 10, German 10, Greek 10, Latin 10 (or 20), Hebrew 10, Spanish 10, Russian 10	6
Two of: *German 10, *Greek 10, *Spanish 10, French 20, German 20, Latin 20 (or 30), Greek 20, Hebrew 20, Spanish 20, Russian 20	6

JUNIOR GROUP 4

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

Subject	*Credits*
English 10, 11, 19, 20, 21 (pp. 121-2)	7
Library Science 10 (p. 142)	½
Mathematics 10, 12, 18 (any two), (p. 144) or Latin 10 (p. 109)	3
Physical Education 10 (pp. 164-5)	1
Biological or Physical or Geological Science 11 (p. 92, p. 166, p. 126)	3
Three of: *Greek 1, *German 1, *Spanish 1, French 10, German 10, Greek 10, Latin 10 (or 20), Hebrew 10, Spanish 10, Russian 10	9
Three of: *Greek 10, *German 10, *Spanish 10, French 20, German 20, Greek 20, Latin 20 (or 30), Hebrew 20, Spanish 20, Russian 20	9

SENIOR GROUPS

To graduate in either of the groups below, a student must secure at least Grade C in one-half the credits of his group and a passing mark (Grade D) in the rest (p. 38). 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 group is open to any student who has completed Junior Group I or the equivalent.

Subject	*Credits*
Psychology 20 or 30	3
Physical Education 20	1
English 30, 36, 38, 40, 45 (any two)	6
History 45, 46	3
Economics 20, 42b	4½
At least 3 credits from History 31, 33, 44; Psychology 36, 39, 48	3
At least 15 credits from:	15

Applied Biology 23, 40;
Botany 22b, 23a, 31a, 36b, 43;
Chemistry 22, 33, 44, 46a, 46b;
Geology 10;
Geography 20, 35, 45;
Physics 21;
Zoology 20, 26;
Mathematics 24, 29a.

---

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

GROUP B

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

Subject	*Credits*
Psychology 20 (20x) (or 30), or Philosophy 30 (30x)	3
Biological or Physical or Geological Science 11 (one not previously taken)	3
Physical Education 20	1
English 30, 36, 38, 40, 45 (any two)	6
History, 6 credits from 20, 31, 33a, 36, 44, 45, 46	6
At least 9 credits (which must include Economics 20, if not previously taken, and 42b) from:	9
Economics 20, 28, 30a, 32a, 32b, 33, 35a, 37a, 37b, 38a, 39a, 42b, 46, 47b, 48a, 49b, 259; Philosophy 30, 30x, 31a, 33x, 34b, 37, 37x, 42, 43b, 47, 47x; Psychology 35, 35x, 36, 36x, 37, 37x, 38, 38x, 39, 43a, 44, 44x, 46, 46x, 48, 49, 49bx; Religious Knowledge 20x, 21x, 22x, 23x, 24x, 30x, 31x, 40x, 41x, 48x; Geography 20, 35, 45; Music 10, 20.	
At least 6 credits from:	6
(a) English 29; *Latin 20, 30, 39, 40;* Greek 10, 20, 29, 30, 40; French 20, 30, 40, 48, 271, 381, 491; German 20, 30, 31, 39, 40, 41; Spanish 10, 20, 30, 31, 40, 41; *Italian 10, 20, 30;* Hebrew 10, 20; Russian 10, 20;	
(b) Mathematics 10, 12, 18, 24, 29a;	
(c) Senior Group courses, not already counted, in Economics, English, History, Philosophy, Psychology, Religious Knowledge.	

II. SECRETARIAL SCIENCE COURSE

Requirements for Admission: Secondary School Graduation Diploma (page 35).

First Year

Subject	*Credits*
English 10, 11, 19 (pp. 121-2)	4
Library Science 10a (p. 142)	½
Mathematics 10, 12, 18 (any two), (p. 144) or Latin 10 (p. 109)	3
Physical Education 10 (pp. 164-5)	1
Biological Science 11 (p. 92)	3
Two of:	
French 10 (p. 177)	3
German 1 or 10 (pp. 129-30)	3
Spanish 1 or 10 (p. 181)	3
Latin 10 (p. 109)	3

Second Year

The registrations in this year are limited in number. To secure admission students must have passed the above first year without any conditions, or must present certificates of standing in Grade XIII English, French or German or Spanish and any two of Latin, Mathematics (two papers), Biology (III Class). Students must clear all the courses of the first year not covered by Grade XIII before beginning any work of the third year.

Subject	*Credits*
Business 20	3
Economics 20	3

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

Third Year

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

Fourth Year

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

III. THEOLOGICAL COURSE

Requirements for Admission: Secondary School Graduation Diploma (page 35).

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

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

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

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

Subject	**First Year**	*Credits*
Apologetics 10x, (p. 184)		2
Church History 10ax (p. 185)		1½
English 10, 11, 19 or Homiletics 19x (pp. 121-2, 185)		4
Greek 1 or 1x (pp. 112, 114)		3
History 20b (p. 134)		1½
Latin 10 (p. 109)		3
Library Science 10a (p. 142)		½
New Testament 11x (p. 185)		1
Old Testament 10x (p. 186)		1
Physical Education 10 (pp. 164-5)		1

Subject	**Second Year**	*Credits*
Economics 20		3
New Testament 21x		1
Old Testament 20x		1
Physical Education 20		1
Psychology 20		3
Homiletics 29x or Psychology 46		1 or 2
English 20, 21		3
Greek 25x		3
Hebrew 10		3
	Third Year	
English 30 or 36 or 38		3
Greek 35x		3
Hebrew 20		3
History 33a, 46b		3
New Testament 31x		1
Old Testament 30x		1
Philosophy 30		3
Psychology 39		2
	Fourth Year	
Church History 40x		2
Economics 28		3
English 40 or 45		3
History 31 or 44		2
New Testament 41x		1
Old Testament 40x		1
Philosophy 31a, 33bx		2
Psychology 48		2

IV. COURSE FOR NURSES

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

Requirements for Admission: Secondary School Graduation Diploma (page 35).

Registration in the first year of this course is limited. Each applicant for admission must submit a certificate of acceptance for this course from the Dean of the School of Nursing and from the Superintendent of the Training School for Nurses in the Hospital where she plans to take her training.

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

Part A: In the Faculty of Arts and science either (1) one and a half academic years or (II) one academic year, the latter for those with Grade XIII standing in English, French or German, Botany, Zoology and Chemistry.

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

I.

Subject	**First Year**	*Credits*
Botany 11N (p. 93)		1½
Chemistry 11N (p. 105)		3
Economics 20 or 28 (pp. 115-6)		3
English 10, 11 (p. 121-2)		3
French 10 or German 10 (pp. 177, 130)		3
Library Science 10a (p. 142)		½
Physical Education 10 (p. 164)		1
Zoology 11N (p. 96)		1½

Second Year, First Term Only (September to January)

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

II.

Students who offer certificates in all the Grade XIII subjects listed above must take a whole year (as below), not a half-year, in the Faculty of Arts and Science and the regular thirty-six, not thirty-two, months in a Training School for Nurses.

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

Part B: Thirty-two (or 36) continuous months in a Training School for Nurses where there shall be a course that is in all its details approved by a Committee of which the Dean of the School of Nursing is Convener.

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

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

V. HOME ECONOMICS

Requirements for Admission: Secondary School Graduation Diploma (page 35).

This four-year course leading to a Bachelor of Arts degree in Home Economics is offered by Ursuline College, London, Ontario. University College students in the course will take their Home Economics classes at Ursuline College.

This course has been approved by the Canadian Dietetic Association.

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

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

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

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

A two-year course leading to a Diploma in Home Economics is offered by Holy Names College (Windsor) and Alma College (St. Thomas). For details consult the pamphlets of these colleges. The diploma course formerly offered by Ursuline and University Colleges is being withdrawn for the year 1947-48.

Subject	First Year	*Credits*
Botany 11N (p. 93)		1½
English 10, 11, 19 (pp. 121-2)		4
Library Science 10a (p. 142)		½
Chemistry 11N (p. 105)		3
French 10 or German 10 or Spanish 10 (pp. 177, 130, 181)		3
Mathematics 10a, 12b, 18 (any two), (p. 144) or Latin 10 (p. 109)		3
Physical Education 10 (p. 164)		1
Zoology 11N (p. 96)		1½
	Second Year	
Botany 36b		1½
English 20, 21		3
French 20 or German 20 or Spanish 20		3
Chemistry 22		3
Zoology 21aN		2
Psychology 20		3
Physical Education 20		1
*Religious Knowledge 20x		2
Home Economics 25x		1
Home Economics 26x		1
	Third Year	
Chemistry 33		3
Economics 20		3
English 30 or 36 or 38		3
Home Economics 30x		2½
Home Economics 31x		2½
Home Economics 32x		2½
Home Economics 33ax		1
Home Economics 34bx		1
	Fourth Year	
Chemistry 46		3
Economics 28		3
*Economics 39x		2
Home Economics 40x		2½
Home Economics 41ax		1½
Home Economics 42x		2½
Home Economics 45x		1
Home Economics 46bx		1½
Home Economics 47x		1
Home Economics 48ax		1½

VI. COURSE FOR TEACHERS OF ELEMENTARY SCHOOLS

Requirements for Admission: Secondary School Graduation diploma. General Course, Four Options (p. 35) and Interim First Class Certificate.

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

Subject	First Year	*Credits*
English 19S, 20, 21T (p. 122)		4
Library Science 10S (p. 142)		1
Physical Education 20 (pp. 164-5)		1
Economics 20 or 28 (pp. 115-6)		3
Psychology 20 (p. 159)		3
Applied Biology 23S (p. 99)		1½

* For Ursuline College students only.

Subject	*Credits*
At least 5 credits from:	
Art 20T (p. 186)	1½
Astronomy 29a (p. 145)	1
Educational Counseling 20T (p. 186)	1
English 26T (p. 187)	1
French 20 (or other foreign language)	3
Handicrafts 20T (p. 187)	1½
Home Economics 25 (p. 137)	1
Home Economics 26 (p. 137)	1
Mathematics 20S (p. 144)	1
Mathematics 23T (p. 145)	1
Music 20T (p. 150)	1½
Secretarial Science 29a (p. 183)	1½
Biological Science 11 (p. 92)	3
Physical Science 11 (p. 166)	3
Second Year	
English 29S, 30 or 38, 31T	5
Economics 30a	1½
Geography 20	1½
History 31	2
Psychology 35S	1½
Psychology 36	2
At least 5 credits from:	
Art 30T	1½
Economics 29S	1
Educational Counseling 30T	1
English 33T	1
English 36S	1½
French 30 (or other foreign language)	3
Handicrafts 30T	1½
Home Economics 30a	1½
Home Economics 31a	1½
Home Economics 32a	1½
Economics 32a	1½
Music 30T	1½
Physical Education 30	1
Secretarial Science 29b	1½
Options from the first year not previously chosen.	
Third Year	
English 40 or 45	3
Geography 45a, 45b	3
History 35S	3
Psychology 39	2
Psychology 48	2
Public Health 30S	1½
At least 5 credits from:	
Economics 39T	1½
English 46S	2½
French 40 (or other foreign language)	3
Home Economics 30b	1½
Home Economics 31b	1½
Home Economics 32b	1½
Home Economics 33	1
Home Economics 34	1
Home Economics 45	1
Physical Education 40	1
Psychology 46b	1
Psychology 49	2
Options of the first or second year not previously chosen.	

VII. JOURNALISM

REQUIREMENTS FOR ADMISSION: Junior Group 2, p. 61, with 60% in Economics and 60% in Business or History. Proficiency in typewriting is also required.

Subject	**Third Year**	*Credits*
Economics 32a		1½
English 35		2
History 31		2
Physical Education 20		1
At least 4 credits from:		
Economics 30a		1½
Economics 257b		1
Geography 20		1½
History 33a		1½
Journalism 30		5
Journalism 31		2
Journalism 32a		½
Journalism 33b		1½
	Fourth Year	
Economics 47b		1½
English 38 or 45		3
History 44		2
One of: Geography 45a, Geography 45b, History 46b		1½
Journalism 40		5
Journalism 41		1½
Journalism 42a		1
Journalism 43a		1
Journalism 44b		1½
Journalism 45		1 or 2

VIII. GENERAL SCIENCE

Requirements for Admission: Secondary School Graduation Diploma (page 35).

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

Subject	**First Year**	*Credits*
English 10, 11, 19 (pp. 121-2)		4
Library Science 10 (p. 142)		½
Mathematics 10, 12, 18 (p. 145)		4
French 10 or German 10 or Latin 10 (p. 177, p. 130, p. 109)		3
Chemistry 10 (p. 104)		3
Physics 10 (p. 165)		3
Physical Education 10 (pp. 164-5)		1
	Second Year	

For admission to this year a student must have passed the first year without conditions or failures, or must present Grade XIII certificates in English Literature and Composition; a foreign language (2 papers in French, German, Spanish, Italian, Latin or Greek); Chemistry ; Physics; Trigonometry; either Algebra or Geometry (Algebra preferred).

English *19, 20, 21	4
Library Science *10	½
Botany 21a	1½
Chemistry 21a, 21b	3
Chemistry 23b	1
History 21	3
Mathematics 21	1
Physical Education *10 or 20	1

* If not previously taken.

Psychology 20	3
Physics 21	3
Zoology 21b	1½

On the successful completion of this second year a student may apply for admission to the third year of the Laboratory Assistants Course (information on request).

Subject	**Third Year**	*Credits*
Chemistry 33		3
Chemistry 34b		2½
Economics 31a		1½
English 35		3
Geography 31		1
Mathematics 31b		1
Physical Education *20		1
Physics 31		2½
Philosophy 32		2
Zoology 31		4½

* If not previously taken.

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

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

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

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

OPTION 1

General Science Course

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

Subject	**Fourth Year**	*Credits*
Economics 20, and 30a or 42b		4½
English 30, 36, 38, 40, 45 (any one)		3
History 31, 33, 44 (two of)		3½ or 4
Botany 23a or 22b		2
Any 6 credits from:		
Botany 23a or 22b (not taken above)		2
Geology 10		3
Chemistry 46		3
Zoology 20		4
Zoology 22		4
Mathematics 24, 29		5
Applied Biology 23		3
Applied Biology 40a		2
Applied Biology 40b		2
Geography 20		1½

OPTION 2

Honors General Science

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

This course satisfies the academic requirements for the High School Assistant's Certificate, Type A, Science, of the Department of Education of Ontario. See page 44.

Subject	**Third Year**	*Credits*
Botany 23a or 22b		2
Botany 350		2½
Chemistry 352		3
Geology 310		3
Physics 300		2
Zoology 374		2½
Classics 5		1
German 5 or Russian 10		3

Fourth Year

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

Botany 466	2½
Chemistry 457	2
Geology 451	2
Physics 403	2
Physics 404	2
Zoology 453	2½
Zoology 457	2
French 45, and one of: German 35, Russian 45	3 or 2

HONORS COURSES

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

1. Biological Science

Requirements for Admission: Group 1, page 61, with the following from the options: Botany, Zoology, Physics, Chemistry and Mathematics. The student must obtain an average of at least 60% in all the options taken, and not less than 60% in Botany and 60% in Zoology.

This course satisfies the academic requirements for the High School Assistant's Certificate, Type A, Science, of the Department of Education of Ontario. See page 44.

Subject	**Second Year**	*Credits*
One of: German 5, Russian 10		3
Physical Education 20		1
Botany 250		2½
Chemistry 200		4
Geology 10		3
Physics 204, 205		3
Zoology 250		2½

Third Year

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

Economics 20 or Psychology 30 or English 30 or 35	3
One of: German 35, Russian 20	2 or 3
Botany 360a, 360b or 452b	5
Chemistry 303a, 456b	3½
Zoology 350a, 354b, 357	7

Fourth Year

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

All students are required to register in the general option (a) below, except those who apply at the close of the third year and receive the consent of the Committee on Biological Science to select one of the special courses: (b), (c), (d).

(a) GENERAL

Subject	*Credits*
French 45, and one of: German 45, Russian 45	2
Applied Biology 460a, 463b	5
Botany 452b (or 360b), 461a	5
Zoology 450b, 452a	5

(b) APPLIED BIOLOGY

French 45, and one of: German 45, Russian 45	2
Botany 461, 466	5
Applied Biology 460a	2½
Applied Biology 460b	2½
Applied Biology 463b	2½
Zoology 450b	2½
Zoology 456a	2½

(c) BOTANY

French 45, and one of: German 45, Russian 45	2
Botany 452b or 360b (the one not previously taken)	2½
Botany 453	2½
Botany 454	2½
Botany 461	2½
Botany 466	2½
Botany 474	2½
Zoology 450b	2½

(d) ZOOLOGY

French 45, and one of: German 45, Russian 45	2
Botany 466b	2½
Zoology 450b	2½
Zoology 452a, 452b	5
Zoology 454b	2½
Zoology 456a	2½
Applied Biology 460a or 463b	2½

II. Business Administration

Requirements for Admission: Group 2, page 61, with at least 60% in Economics and 60% in Business.

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

Second Year

Subject	*Credits*
English 35	3
Physical Education 20	1
Business 250	3
Business 255	3
Economics 233	3

Subject	**Second Year**	*Credits*
Seven credits from:		
English 30, 36, 38		3
French 20, 33 or 43		3
Spanish 10, 20, 30, 31		3 or 2
Philosophy 30, 31		3 or 1
History 31 or 44		2
Economics 251b		1
Economics 257a, 257b		2
Economics 259		2
Economics 232a, 300b		3
Economics 346		3
Economics 42b		1½

Third Year

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

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

Fourth Year

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

Business 458	3
Business 459	1½

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

Business 451	3
Business 452	3
Business 453	3
Business 454	3
Business 460	3
Business 461	3
Business 471	3
Economics 351a, 462b	3
Economics 350a, 453b	3

Intensive Course in Business Administration

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

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

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

Intensive Course in Public Administration

REQUIREMENTS FOR ADMISSION: Graduation from a recognized college. Successful experience in business or in a government post, in lieu of academic training, may be considered.

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

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

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

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

III. Business Administration and Secretarial Science

Requirements for Admission: Group 2, page 61, with at least 60% in Economics and in Business.

This course, with the addition of Penmanship, satisfies the academic requirements for the High School Assistant's Certificate, Type A, in Commercial Subjects of the Department of Education of Ontario. See page 44.

Subject	**Second Year**	*Credits*
English 35		3
Physical Education 20		1
Business 36		2
Business 250		3
Economics 233		3
Economics 257a, 257b, 259		4
Secretarial Science 28, 29		6

Third Year

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

Business 350	3
Business 351	3
English 30 or 36 or 38	3
History 31	2
Secretarial Science 37	3
Secretarial Science 38, 39	6

Fourth Year

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

Subject	*Credits*
Business 306	3
Business 460	3
Economics 46 or English 40 or 45	3
Secretarial Science 47 (theory and practice)	7

Students not desiring to qualify for the Commercial Specialist Certificate of the Department of Education of Ontario may substitute for Business 460 either Business 461 or Business 471.

IV. Chemistry

Requirements for Admission: Group 1, page 61, with the following from the options: Chemistry, Mathematics, Physics, and two of Botany, Geology, Zoology. The student must obtain an average of at least 60% in all the options taken, and not less than 60% in Chemistry, and an average of 60% in Physics and Mathematics.

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 44.

Second Year

Subject	*Credits*
One of: German 5, Russian 10	3
Physical Education 20	1
Chemistry 250	5
Chemistry 252b	3½
Geology 251	2
Two of Botany 250, Zoology 250, Science not taken in Junior Group 1	5 or 5½

Third Year

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

One of: German 35, Russian 20	2 or 3
Chemistry 303	4½
Chemistry 354	5
Chemistry 357a	½
Physics 254, 255	7
One of:	
Economics 20	3
English 30 or 35	3
Psychology 30	3

Fourth Year

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

French 45, and one of: German 45, Russian 45	2
Chemistry 451a	2
Chemistry 452a	2
Chemistry 453	3½
Chemistry 454	4
Chemistry 455b	2
Chemistry 456b	1½
Chemistry 458 (1) and Comprehensive Examination (2)	3
Chemistry 459	4½

V. Chemistry and Physics

Requirements for Admission: As for Honors Chemistry (page 75).

Subject	Second Year	*Credits*
One of: German 5, Russian 10		3
Physical Education 20		1
Chemistry 250 (4), 252b		7½
Mathematics 254		3
Physics 251, 254, 255		8

Third Year

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

One of: German 35, Russian 20	2 or 3
Mathematics 354	2
Chemistry 303	4½
Chemistry 354	5
Chemistry 357a	½
Physics 354	3½
Physics 355	3½

Fourth Year

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

Subject	*Credits*
French 45, and one of: German 45, Russian 45	2
Chemistry 452a	2
*Chemistry 453 or 454	3½ or 4
Chemistry 458	1
Physics 405	2
*Physics 453 or 456	2
Physics 458	1
Either Chemistry 459 or Physics 459	4½
One of:	
Economics 20	3
English 30 or 35	3
Psychology 30	3

VI. Classics

Requirements for Admission: Group 4, page 62, with an average of 60% in Latin 10 and 20 and 60% in Greek 10 and 20.

This course satisfies the academic requirements for the High School Assistant's Certificate, Type A, in Classics, of the Department of Education of Ontario. See page 44.

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

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

Third Year

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

English 40	3
Greek 340, 350, 351, 352	6
Latin 340, 350, 351, 352	6

Fourth Year

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

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

VII. Economic and Political Science

Requirements for Admission: Group 2, page 61, with an average of at least 60% in Economics, Business and Psychology, and 60% in Economics.

Subject	**Second Year**	*Credits*
Biological or Physical Science 11 (one not previously taken) or Mathematics 24a		3 or 2
Business 250		3
English 35		3
Physical Education 20		1
Economics 228, 233, 251b, 257a, 259		11

Third Year

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

Subject	*Credits*
Economics 300b, 332a, 332b, 335a, 342b, 346	10½
History 33a, and one of 31, 44	3½
At least five credits from:	
Economics 330a	1½
Economics 337a, 337b	3
Economics 338a, 339a	3
Economics 345a	1½
Economics 347b	1½
Economics 348a	1½
Economics 350a	1½
Economics 351a	1½
Economics 353a	1
Economics 354b	1
Economics 363a	1½
Business 351	3
Business 354	3
English 30 or 36 or 38	3
Geology 10	3
History 20 or 31 or 44 (if not previously taken)	3 or 2
Mathematics 24a (if not previously taken), Mathematics 24b	3 or 4
Philosophy 30	3
Philosophy 31a or 42	1 or 2
Psychology 46	2
French 30 or 33, German 20 or 30, or Spanish 10 or 20 or 30, 31	3 or 2

Fourth Year

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

Economics 450a, 452a, 460b, 462a, 462b, 490b	8½
History 45a, 46b	3
At least six credits from:	
Economics 449b	1½
Economics 453b	1½
Economics 458b	1½
Economics 478a	1½
History 356b	1½
Business 481b	1½
Geography 35	3
Psychology 48	2
Psychology 49	2
Mathematics 250 or 254	2 or 3

Options of the Third Year not previously chosen.

VIII. English Language and Literature

Requirements for Admission: Group 3, page 62, with an average of 60% in English and an average of 60% in the two languages taken.

This course is accepted by the Department of Education of Ontario as academic prerequisite for the qualifying examination for High School Assistants's Certificate, Type A, English. See page 44.

Subject	Second Year	*Credits*
History 36		3
Physical Education 20		1
English 200, 236, 254		7
Greek 29		1
Two of: French 270		3
German 290		3
Latin 230, 250		3
Greek 230, 250		3

Third Year

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

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

Fourth Year

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

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

VIII(a). English and French

Requirements for Admission: *Group 3 or Group 4, page 62,* with an average of at least 60% in English and in French.

This course is accepted by the Department of Education of Ontario as academic qualification for the High School Assistant's Certificate, Type A, English and French. See page 44.

Subject	Second Year	*Credits*
History 36		3
Physical Education 20		1
English 200, 236, 254		7
French 270, 271, 290		6
One of:		
German 290		3
Latin 230, 250		3
*Spanish 230, 231		4

Third Year

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

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

Fourth Year

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

English 440, 445, 450	9
French 450, 490, 491	9

VIII(b). English and Latin

Requirements for Admission: Junior Group 3, or Junior Group 4, page 62, with 60% in English and 60% in Latin.

This course is accepted by the Department of Education of Ontario as academic qualification for the High School Assistant's Certificate, Type A, English and Latin. (Page 44).

Subject	Second Year	*Credits*
History 257		3
Physical Education 20		1
English 200, 236, 254		7
Latin 230, 250, 251		5
Greek 29		1
One of:		
French 270		3
Greek 20, or 230 and 250		3
German 20 or 290		3

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

Third Year

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

History 36	3
English 330, 356, 357, 363	9
Latin 340, 350, 351, 352	6

Fourth Year

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

English 440, 445, 450	9
Latin 450, 451, 452, 453, 457	9

IX(a). French and German

Requirements for Admission: Group 4, page 62, with at least 60% in French and in German.

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. (page 44).

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

Third Year

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

History 45, 46	3
French 380, 381	6
German 390, 391, 393	6
One of: Eng 40	
Spanish 20 or 30, 31 or 40, 41	3 or 4
Italian 20 or 30	3
Latin 340 or 350	2

Fourth Year

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

Subject	*Credits*
French 450, 490, 491	9
German 460, 480, 481	8

IX(b). French and Spanish

Requirements for Admission: Group 4, page 62, with at least 60% in French and Spanish.

This course satisfies the academic requirements for the High School Assistant's Certificate, Type A, French and Spanish, of the Department of Education of Ontario (page 44).

Subject	**Second Year**	*Credits*
English 30		3
Greek 29		1
Italian 10		3
Physical Education 20		1
French 270, 271, 290		6
Spanish 230, 231, 260		5

Third Year

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

History 45, 46	3
Italian 20	3
French 380, 381	6
Spanish 340, 341, 360	7

Fourth Year

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

French 450, 490, 491	9
Spanish 450, 451, 460	6
Italian 30	3

IX(c). French and Latin

Requirements for Admission: Group 4, page 62, with at least 60% in French and 50% in Latin.

This course is accepted by the Department of Education of Ontario as academic qualification for the High School Assistant's Certificate, Type A, French and Latin. See page 44. In this course three years, or the equivalent, of Greek or German must be taken in the University.

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

Third Year

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

Subject	*Credits*
German 30, 31 or Greek 30	3
Greek 29	1
History 45, 46	3
French 380, 381	6
Latin 340, 350, 351, 352	6

Fourth Year

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

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

X. Geology

Requirements for Admission: Group 1, page 61, with the following from the options: Geology, Chemistry, Mathematics and two of Botany, Zoology, Physics. The student must obtain an average of at least 60% in all the options taken and not less than 60% in Geology.

Consult the department head regarding options in the various years.

Subject	Second Year	*Credits*
One of: German 5, Russian 10		3
Physical Education 20		1
Physics 204, 205		3
Geology 251, 263, 264		5½
Chemistry 200		4
Physics 25a or Zoology 250		1½ or 2½

Third Year

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

One of: German 35, Russian 20	2 or 3
Geology 351, 352, 354, 356	7½
Geography 335	3
Geology 363 and 364 or 365	3 or 2
One of: English 30 or 35, Psychology 30, Economics 20	3

Fourth Year

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

French 45 and one of: German 45, Russian 45	2
Geography 445	3
Geology 452, 454, 455, 457, 458	11
Geology 460 or 469	1½
One of: Philosophy 30, Business 20, History 36	3

XI. History

Requirements for Admission: Junior Group 3, page 62, with 60% in History and an average of 60% in English and in the two languages chosen.

This course will satisfy the academic requirements for the High School Assistant's Certificate, Type A, History, of the Department of Education only if the options marked with an asterisk have been taken. See page 44.

Subject	Second Year	*Credits*
History 236		3
History 257		3
Economics 20		3
Philosophy 30 (or *Business 20)		3
Physical Education 20		1

Any two of:
French 30, German 30, Latin 30, Greek 30, Spanish 30, *Geography 20 ..... 3½ or 4½

Third Year

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

History 331	3
History 333a	1½
History 354b or 356b	1½
Economics 257	2
Economics 259	2
Psychology 20 (or *Geography 335)	3
One of:	
*Economics 332a, 251, 332b	4
English 30, 254	5
Foreign Language: two of Latin, Greek, French, German, Italian, Spanish, authors only, to be arranged	4

Fourth Year

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

History 444	3
History 452a	1½
History 455	3
History 460b	1½
Economics 233	3
Economics 450a	1½
Economics 452a	1½
One of:	
Economics 346, 453b	4½
English 38 or 40 or 45	3
Foreign Language: two of Latin, Greek, French, German, Italian, Spanish, authors only, to be arranged	4
*Geography 445a, 445b	3

XII. Mathematics (including Actuarial Science) and Physics

Requirements for Admission: Group 1, page 61, with the following from the options: Mathematics, Physics, Chemistry, and two of Botany, Geology, Zoology. The student must obtain an average of 60% in all the options taken, and not less than 60% in Mathematics and 60% in Physics.

Subject	Second Year †	*Credits*
One of: German 5, Russian 10		3
Mathematics 250, 252, 254, 262		7½
Physics 250, 251, 254, 255		10
Physical Education 20		1

†For Second Year Radio Physics see pp. 85-6.

MATHEMATICS OPTION

This course satisfies the academic requirements for the Mathematics and Physics, Type A, High School Assistant's Certificate of the Department of Education of Ontario. See page 44. Degree of B.A.

Third Year

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

Subject	*Credits*
Economics 20 or English 30 or 35 or Psychology 30	3
One of: German 35, Russian 20	2 or 3
Mathematics 354	2
Physics 360a, 360b	3½
One of Groups I and II below	7

Fourth Year

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

French 45, and one of: German 45, Russian 45	2
History 45a, 46b	3
Mathematics 456a, 466b	3
Physics 351a, 456	3
One of the Groups I and II below	7

The following two groups are given in alternate years, Group I in 1947-8.

Subject	**Group I**	*Credits*
Mathematics 351a		1
Mathematics 355a		1
Mathematics 359a		1
Mathematics 362b (or 355b for Actuarial Science Option)		1
Mathematics 364		2
Mathematics 368b		1

Group II

Mathematics 450b	1
Mathematics 452a	1½
Mathematics 453b	1
Mathematics 457	1
Mathematics 462b (or 473b for Actuarial Science Option)	1
Mathematics 463a	1½

ACTUARIAL SCIENCE OPTION

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

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

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

Subject	**Third Year**	*Credits*
One of: German 35, Russian 20		2 or 3
Economics 20		3
English 35		3
Business 250		3
Mathematics 354		2
Group I or II of Mathematics Options		7

Fourth Year

History 45a, 46b	3
Business 353	3
Economics 351a, 460b	3
Mathematics 456, 466	3
Group I or II of Mathematics Option	7

GENERAL PHYSICS OPTION

This course satisfies the academic requirements for the Mathematics and Physics, Type A, High School Assistant's Certificate of the Department of Education of Ontario. See page 44. Degree of B.Sc.

Third Year

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

Subject	*Credits*
One of: German 35, Russian 20	2 or 3
Mathematics 354	2
Physics 350	3
Physics 351a	1
Physics 352	3½
Physics 354	3½
Physics 355	3½

Fourth Year

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

Subject	*Credits*
French 45, and one of: German 45, Russian 45	2
Economics 20 or English 30 or 35 or Psychology 30	3
Mathematics 456a, 466b	3
Physics 453	2
Physics 455	1½
Physics 456	2
Physics 458	1
Physics 459	4½

RADIO PHYSICS OPTION

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

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

Subject	**Second Year**	*Credits*
One of: German 5, Russian 10		3
Mathematics 250, 254, 262b		6½
Physics 250, 251, 255		6½
Physics 25a, 276a, 277b		4
Physical Education 20		1

Third Year

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

One of: German 35, Russian 20	2 or 3
Economics 20	3
Mathematics 354a, 456a, 466b	5
Physics 351a	1
Physics 375	2
Physics 376b	1
Physics 377	2
Physics 379	6

Fourth Year

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

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

XIII. Philosophy and Psychology

This course is offered in University College only.

Requirements for Admission: Group 2, page 61, with at least 60% in Economics and 60% in Psychology.

Subject	**Second Year**	*Credits*
Biological or Physical Science 11 (one not previously taken)		3
English 30 or 38, or History 257		3
Physical Education 20		1
Philosophy 230, 231a		4
Psychology 235, 236		5
At least three credits from options approved by the Department		3

PHILOSOPHY OPTION

Third Year

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

Philosophy 334b, 337, 347, 350	8
Psychology 339, 349	4
At least five credits from options approved by the Department	5

Fourth Year

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

Philosophy 442, 443b, 450, 451, 452, 458	11
At least three credits from:	
Psychology 443a, 444, 446, 448	3
At least three credits from options approved by the Department	3

PSYCHOLOGY OPTION

Third Year

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

Philosophy 347	2
Psychology 337, 338, 339, 349, 355	11
At least five credits from options approved by the Department	5

Fourth Year

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

Philosophy 442, 443b, 450	4
Psychology 443a, 444, 446, 448, 455	9
At least three credits from options approved by the Department	3

XIII(a). Philosophy and Psychology

This course is open only to students of Assumption College.

Requirements for Admission: Secondary School Graduation Diploma (page 35).

First Year

One year's work in any Junior Group.

Admission to the Sophomore Year in Honor Philosophy is subject to approval by the Registrar and the Department of Philosophy.

Subject	**Second Year**	*Credits*
English 20		2
English 21		1
Physical Education 20		1
Psychology 20x		3
Philosophy 231x		2
Philosophy 237x		2
Philosophy 250x		1
One Foreign Language 20		3
At least 5 credits from options approved by the Registrar and the Department		5

Third Year

English 30	3
Psychology 36x	2
9 credits from these Philosophy courses: 234xb, 237x, 340x, 341xa, 341xb, 342xa, 342xb, 343xa, 343xb, 444xa, 444xb, 445xa, 445xb, 446xa, 446xb, 447x, 448x, 449xa, 350x, 450x	9
At least 3 credits from options approved by the Registrar and the Department	3

Fourth Year

English 40	3
12 credits in Philosophy not taken in Junior Year	12
At least 3 credits from options approved by the Registrar and the Department	3

XIII(b). Philosophy and Psychology

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

Requirements for Admission: Secondary School Graduation Diploma (page 35).

Subject	**First Year**	*Credits*
English 10, 11, 19 (pp. 121-2)		4
Latin 10 (p. 109)		3
Library Science 10a (p. 142)		½
Mathematics 10, 12, 18 (p. 144) (any two)		3
Physical Education 10 (pp. 164-5)		1
At least six credits from the following:		
History 14 (p. 133)		3
French 10 (p. 177)		3
German 1 or 10 (p. 130)		3
Greek 1 or 10 (p. 112)		3
Spanish 1 (p. 181)		3
Italian 10 (p. 180)		3
Latin 25x (p. 109)		3
Botany 10 (p. 92)		3
Chemistry 10 (p. 104)		3
Physics 10 (p. 165)		3
Zoology 10 (p. 96)		3
Religious Knowledge 100x, 101x (p. 175)		3

Subject	**Second Year**	*Credits*
English 20, 21		3
Latin 20 or 25x or 35x		3
Physical Education 20		1
Philosophy 250x		3
Philosophy 251x		2
Philosophy 257x		2
Philosophy 260x		2
One of:		
Economics 20		3
French 20		3
German 20		3
Greek 20		3
History 257		3
Italian 20		3
Religious Knowledge 200x, 201x		3
Spanish 10		3
Option of First Year, not previously taken		3

Third Year

English 30 or 36 or 38	3
Philosophy 351x	3
Philosophy 352x	3
Philosophy 357x	3
Philosophy 358x	2
One of:	
French 30	3
German 30, 31	3
Greek 30	3
History 20	3
Latin 30 or 35x or 45x	3
Mathematics 24	4
Option of Second Year, not previously taken	3

Fourth Year

English 40 or 45	3
Philosophy 450x	2
Philosophy 451x	3
Philosophy 452x	3
Philosophy 457x	3
One of:	
French 40	3
German 40, 41	3
Greek 40	3
History 36	3
Latin 40 or 45x	3
Option of Third Year, not previously taken	3

Physics

See Chemistry and Physics (p. 76), and Mathematics and Physics (p. 83).

XIV. Social Science

Requirements for Admission: Junior Group 2, p. 61, with 60% in Economics and in Psychology, with History 14 or 20 in place of Business 20, and Biological Science 11 chosen in preference to Physical Science 11.

Subject	**Second Year**	*Credits*
Economics 228		3
Economics 232a		1½
Economics 233		3
Economics 259		2
Philosophy 230		3
Philosophy 231a		1
Psychology 235, 236		5
Physical Education 20		1
One of:		
Biological Science 11 or Physical Science 11 (one not previously taken)		3
Geology 10 or Applied Biology 23, or Zoology 20 or 26		4 or 3
History 257		3
One language		3

Third Year

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

Ursuline College students may count 3 optional credits in Religious Knowledge (other than 10x) in each of the Third and Fourth Years.

Subject	*Credits*
Economics 342b	1½
Economics 348a	1½
Economics 346	3
Psychology 337	2
Psychology 339	2
Psychology 355	2
History 45a, 46b	3
Four credits from:	
Economics 300b	1½
Economics 339	1½
Economics 354a	1
Philosophy 337	2
Philosophy 347	2
Psychology 338	3
Psychology 349	2

Fourth Year

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

Subject	*Credits*
Economics 449b	1½
Economics 450a	1½
Economics 453b	1½
Economics 462b	1½
Economics 478a	1½
Philosophy 442	2
Philosophy 443b	1
Psychology 443a	1
Psychology 446	2
Psychology 448	2
Three credits from:	
Economics 452a	1½
Economics 460b	1½
Economics 490b	1½
History 31	2
History 44	2
Philosophy 458	3
Psychology 444	2
Psychology 455	2

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

Second Year

Subject (Not offered in 1947-48)	*Credits*
One of: German 5, Russian 10	3
Physical Education 20	1
Botany 250	2½

Chemistry 200	4
Geology 10	3
Physics 204, 205	3
Zoology 250	2½

Third Year

(Not offered after 1947-48)

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

One of: German 35, Russian 20	2 or 3
Botany 466b	2½
Chemistry 303	4½
Chemistry 444	3½
Zoology 350a, 450b	5
Zoology 357	2

Fourth Year

For admission to the Fourth Year an average of 66% in the Honors courses of the Third Year is required; also the approval of the Committee of the Faculty of Medicine *on Admission and Promotion.*

The work of the Fourth Year is identical with the First Year of the Medical Course; taken at the Medical School.

DESCRIPTION OF COURSES

DEPARTMENT OF BIOLOGICAL SCIENCES

EXECUTIVE COMMITTEE: Professors Hart (Chairman), Detwiler, Robertson.

11. **Biological Science:** The fundamental principles of biology with stress on the cell as a unit, the origin and preservation of the individual and the race, the mode of inheritance, and the applications of biology to social and economic problems.

Open to General Course students in Groups 2, 3 and 4, pp. 61-2.

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

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

Students obtaining 60 per cent. in this course may select options for further study in the pass Biological Sciences; Applied Biology, Botany and Zoology.

BOTANY

University College

N. C. HART, M.A., F.A.A.A.S., F.A.G.S.,	Professor
ANSON R. WALKER, M.A., F.A.A.A.S.,	Professor of Plant Pathology
D. A. MCLARTY, Ph.D.,	Assistant Professor
JOHN K. JOHANNESEN, Diploma (Copenhagen),	Instructor, Plant Culture
MARION MOSS, B.Sc.,	Senior Demonstrator
MRS. J. LAXTON, B.A.,	Demonstrator
MRS. W. W. OLLERHEAD, B.A.,	Demonstrator
RUTH M. HORNER, B.A.,	Demonstrator
R. E. SAMPSON, B.S.A.	Demonstrator

Assumption College

REV. A. J. GRANT, M.A.	Professor
ROBERT CUMMINGS, M.S.,	Professor
SISTER M. RAPHAILDA, M.A.,	Associate Professor
D. J. LA CROIX,	Demonstrator

Waterloo College

B. W. KELLEY, B.A.,	Professor

10. **Introductory Botany:** For students of the General Course, Group I; the general principles of Botany. **To qualify for the Honors Courses in Biology a student must obtain 60 per cent. in Botany 10.**

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

Prerequisites: complete college entrance requirements.

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

11N. **General Botany:** For students in the course for nurses and in the Home Economics courses.

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

Prerequisites: complete college entrance requirements.

Text-book: Sinnott, *Principles and Problems of Botany.*

21a. **Elementary Botany:** For students of the General Science 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.

Prerequisites: complete college entrance requirements.

Text-book: Sinnott, *Principles and Problems of Botany.*

22b. **Plant Culture:** The elementary principles of plant growth, propagation and care, with particular reference to plants of the garden and home.

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

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

23a. **Plant Ecology:** The relationships between plants and their surroundings, including the recognition and classification of common plants.

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

Prerequisites: same as for 22b.

31a. **Plant Diseases and Fungi:** The recognition of poisonous and edible fungi and the identification, cause and control of common plant diseases.

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

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

Text-books: Duggar, *Fungous Diseases of Plants.*

36b. **Elementary Bacteriology:** The common economic organisms in reference to: water, food supplies, public health and civic problems. Prescribed for second year students in Home Economics: optional for others.

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

Prerequisites: as in 31a.

Text-book: Buchanan and Buchanan, *Bacteriology.*

43. **Plant Taxonomy:** The recognition and classification of the common garden and field plants with special reference to adaptations to their environment.

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

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

Text-book: Gray, *New Manual of Botany.*

Honors Courses

250. **Biology of Seed Plants:** The evolution, external morphology of the Spermatophyta; elementary plant physiology.

2 lectures, 6 laboratory hours a week, one term: 2½ credits.
Prerequisites: Junior Group 1.

Text-books: Coulter, Barnes and Cowles, *Text-book of Botany.*
Gray, *New Manual of Botany.*

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

2 lectures, 6 laboratory hours a week, one term: 2½ credits.
Prerequisites: Botany 21a and Botany 22b or Botany 23a.

357. **Historical Biology:** See Zoology 357.

360a. **Algae:** Morphology, classification and evolution.

2 lectures, 6 laboratory hours a week, one term: 2½ credits.
Prerequisites Botany 250.

Text-books and References:
G. M. Smith, *Fresh Water Algae of the United States.*
Fritsch, *Structure and Reproduction of the Algae.*
West and Fritsch, *British Fresh Water Algae.*
F. S. Collins, *Green Algae of North America.*
Oltmanns, *Morphologie und Biologie der Algen.*

360b. **Mosses and Ferns:** Morphology, classification, evolution.

2 lectures, 6 laboratory hours a week, one term: 2½ credits.
Prerequisites: Botany 250.

Text-books and References:
Bower, *Origin of Land Flora.*
Campbell, *Mosses and Ferns.*
Coulter, Barnes and Cowles, *Text-book of Botany, Vol. I.*
Strasburger, *Text-book of Botany.*

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

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

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

453. **Ecology and Taxonomy:** The principles of ecology, and the classification of the Spermatophyta.

2 lectures, 6 laboratory hours a week, one term: 2½ credits.
Prerequisites: Botany 360a.

Text-books: McDougall, *Plant Ecology.*
Coulter, Barnes and Cowles, *Text-book of Botany, Vol. II.*

454. **Plant Anatomy:** The anatomy of the Pteridophyta and Spermatophyta.

2 lectures, 6 laboratory hours a week, one term: 2½ credits.
Prerequisites: Botany 360a.

Text-books: Strasburger, *Text-book of Botany.*
Jeffery, *Anatomy of Woody Plants.*

461a. **Mycology:** Plant diseases and the classification, morphology and structure of fungi.

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

Prerequisites: Botany 360a.

Text-books: Stevens, *Plant Disease Fungi.*
Gwynne-Vaughan and Barnes, *The Structural Development of the Fungi.*

466b. **Bacteriology:** The culture, classification and life histories of selected groups of bacteria.

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

Prerequisite: Botany 461a.

Text-books: Tanner, *Bacteriology.*
Jordan, *General Bacteriology.*

474. **Plant Cytology:** A study of plant cells, including the technique of preparing materials for cytological studies.

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

Prerequisite: Botany 454.

Text-books and References:
Sharp, *Introduction to Cytology.*
Wilson, *The Cell in Development and Heredity.*
Cowdry, *General Cytology.*
Lee, The Microtomist's Vade-Mecum.
Guyer, *Animal Micrology.*
McLung, *Microscopical Technique.*
Darlington, *Recent Advances in Cytology.*

Courses Leading to the Degree of M.Sc.

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

References: Schimper, *Plant Geography.*
Hardy, *The Geography of Plants.*
Campbell, *Plant Geography.*
Encyclopaedia Britannica.

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

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

556. **Applied and Economic Botany:** The recognition of plant foods, fibres, adulterants, poisonous products, weed seeds, etc.

Discussions and 6 laboratory hours a week for both terms: 3 credits.

Text-books and References:
Hanauseck, *Microscopy of Technical Products.*
Winton, *Microscopy of Vegetable Foods.*
Kraemer, *Applied and Economic Botany.*
Sargeant, *Plants and Their Uses.*
Brown, *Forest Products, their Manufacture and Use.*
Winton and Winton, *The Structure and Composition of Foods.*

559. **Research Problems in Plant Anatomy, Plant Ecology, Phytopathology, Mycology, Algology or Cytology.**

561. **Advanced Phytopathology:** The symptoms, causes and control of the diseases of economic plants.

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

Text-books and References:
Stevens, *Plant Disease Fungi.*
Owens, *Principles of Plant Pathology.*
Heald, *Manual of Plant Diseases.*
Hesler and Whetzel, *Manual of Fruit Diseases.*
Mason, *Spraying, Dusting, and Fumigating of Plants.*
Chupp, *Manual of Vegetable-Garden Diseases.*
Taubenhaus, *Diseases of Truck Crops.*
Bulletins, Periodicals, etc.

ZOOLOGY AND APPLIED BIOLOGY

University College

JOHN D. DETWILER, Ph.D., F.A.A.A.S.,	Professor
A. D. ROBERTSON, M.A., F.A.A.A.S., F.R.S.A.,	Professor
HELEN I. BATTLE, Ph.D., F.A.A.A.S.,	Associate Professor
W. H. JOHNSON, Ph.D.,	Assistant Professor
C. J. KERSWILL, Ph.D.,	Assistant Professor
MRS. J. H. SCOTT, M.A.,	Demonstrator
MRS. GORDON MCKEE, M.A.,	Demonstrator
JOHN W. ARNOLD, B.A.,	Demonstrator
DIANE KELTON, B.Sc.,	Demonstrator
JOHN WALTERS, B.A.,	Demonstrator
MRS. WILLIAM ANDREWS, B.A.	Demonstrator
EWART BERTRAM, B.A.,	Demonstrator
HOWARD CLEMENS, B.Sc.,	Demonstrator
J. D. HAMILTON, B.Sc.,	Demonstrator
G. H. LAWLER, B.A.,	Demonstrator
BLAIR MCGUGAN, B.Sc.,	Demonstrator

Assumption College

ROBERT CUMMINGS, M.S.,	Professor
REV. A. J. GRANT, M.A.,	Associate Professor
SISTER M. RAPHAILDA, M.A.,	Associate Professor

Waterloo College

B. W. KELLEY, B.A.,	Professor

ZOOLOGY

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

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

Prerequisite: complete college entrance requirements.

Text-book: Holmes, *Biology of the Frog.*

11aN. **General Zoology:** For students in the course for nurses and in Home Economics.

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

20. **Human Biology:** A course dealing with tissues, organs and systems from the structural, functional and developmental points of view. Protoplasm and the cell genetics, with its relationship to evolution and to society, will be emphasized. 20a may be elected for 2 credits, but 20b cannot be taken without 20a. Given in alternate years: next in 1948-49.

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

Prerequisites: Biological Science 11 (60%) or Zoology 10.

Text-book: Baitsell, *Human Biology.*

21aN. **Mammalian Zoology:** The evolutionary development of structure and function in the Mammals. For students in the course for nurses and in Home Economics.

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

Prerequisites: Zoology 11N or Biological Science 11 (60%).

Text-book: Baitsell, *Human Biology.*

21b. **Introductory Animal Biology:** A general survey of the principles common to animal life. For students in the General Science course.

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

22. **Animal Ecology:** The general relationships of animals to their environments. Given in alternate years, next in 1947-8.

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

26. **Elementary Principles of Genetics:** Inheritance. 26a may be taken for 2 credits but is a prerequisite for 26b. Given in alternate years: next in 1947-8.

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

Prerequisite: Zoology 10 or Biological Science 11 (60%).

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

31. **Comparative Vertebrate Zoology:** Comparative structure and function of vertebrate organ systems; introductory embryology. For students in the General Science course.

3 lectures, 3 laboratory hours a week: 4½ credits.

Honors Courses

250. **Invertebrate Zoology:** Supplements the study of invertebrate animals begun in Zoology 10a. Two primary objectives will be kept in mind: the evolutionary as revealed by comparative anatomy, and the applied as shown by consideration of the human relationships of a few outstanding economic forms.

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

Prerequisite: Junior Group 1.

350a. **Comparative Anatomy:** The anatomy of the Chordates exclusive of the Mammalia, from the functional and the evolutionary points of view.

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

Prerequisites: Zoology 250.

Text-books: Kingsley, *Comparative Anatomy of the Vertebrates.*
Adams, *Introduction to the Vertebrates.*
Neal and Rand, *Comparative Anatomy.*
Hyman, *Comparative Vertebrate Anatomy.*

354b. **Elementary Histology, Embryology and Experimental Biology:** An introduction to the microscopic structure, the functioning and the development of vertebrate tissues and organs as exemplified in the frog.

2 lectures, 6 laboratory hours a week: 2½ credits.
Prerequisites: Zoology 350a.

Text-books: Cole, *Comparative Histology.*
Gerard, *The Body Functions.*
Huettner, *Comparative Embryology of the Vertebrates.*
Rogers, *Comparative Physiology.*
McEwen, *Text-book of Vertebrate Embryology.*

357. **Historical Biology:** The history, theory and problems of Biology.

2 lectures a week: 2 credits.
Prerequisites: Zoology 250 and Botany 250.

Text-books: Newman, *Readings in Evolution, Genetics and Eugenics.*
Lindsey, *Text-book of Evolution and Genetics.*
Locy, *Biology and Its Makers.*
Nordenskiold, *A History of Biology.*
Sinnot and Dunn, *Principles of Genetics.*

374a. **Tissue Structure and Function:** The structure and function of cells and tissues. For students in General Science Honors.

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

450b. **Mammalian Zoology:** A continuation of Zoology 350a, extending the basic concepts of comparative chordate anatomy into the field of mammalian anatomy.

2 lectures, 6 laboratory hours a week: 2½ credits.
Prerequisites: Zoology 350a.

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

452a. **Experimental Zoology:** Application of general physical and chemical principles to biological phenomena, including elementary cellular physiology, regeneration, tropisms, and metabolic processes as illustrated by selected invertebrate and vertebrate types.

2 lectures, 6 laboratory hours a week: 2½ credits.
Prerequisites: Zoology 354b.

Text-books: Rogers, *Comparative Physiology.*
Barnes, *Text-book of General Physiology.*
Heilbrunn, *An Outline of General Physiology.*

452b. **Mammalian Physiology:** The functions of the mammalian organ systems.

2 lectures, 6 laboratory hours a week: 2½ credits.
Prerequisites: Zoology 452a.

References: Best and Taylor, *The Living Body.*
Carlson and Johnson, *Machinery of the Body.*
Starling, *Human Physiology.*

453. **Animal Ecology:** The general relationships of animals to their environments.

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

454. **Microscopical Anatomy of Animals:** The structure, development and evolution of animal tissues and organs, including the fundamental principles of embryology, as exemplified in typical invertebrates and vertebrates.

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

Prerequisites: Zoology 354b.

Text-books: Scott and Kendall, *Microscopic Anatomy of Vertebrates.*
Dahlgren and Kepner, *Principles of Animal Histology.*
McEwen, *Text-book of Vertebrate Embryology.*
Richards, *Outline of Comparative Embryology.*
Patten, *The Early Embryology of the Chick.*

456. **Laboratory Technique:** For Honor Zoology students and other students who may be qualified to take training in laboratory technique: the preparation of materials for study in the Zoological laboratory, the preparation of specimens for the teaching museum, photography as it pertains to the teaching and practice of Zoology, the preparation of Zoological demonstrations and illustrations.

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

Prerequisites: Third year Honors Biology or the approval of the Dean and of the Head of the Department.

Text-books: Galigher, *Essentials of Practical Microtechnique.*
Guyer, *Animal Micrology.*

457. Same as Zoology 357.

APPLIED BIOLOGY

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

4 class hours a week: 3 credits.

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

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.

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

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

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

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

Honors Courses

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

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

Prerequisite: Zoology 350a.

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

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

Prerequisites: Zoology 350a.

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

463. **Fresh-Water Biology:** An environmental study of inland waters, and the fitness of forms to their environment; problems of conservation and of aquatic wildlife. The environmental study will be broadened out into the wider concept of general animal ecology.

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

Prerequisites: Botany 360a, Zoology 250.

Text-books: Welch, *Limnology.*
Needham and Needham, *Guide to the Study of Fresh Water Biology.*

Courses Leading to the Degree of M.A. or M.Sc.

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

544. **Embryology.**

550. **Comparative Anatomy.**

552a. **Experimental Zoology.**

552b. **Mammalian Physiology.**

553. **Ecology.**

554. **Histology.**

560a. **Insect Morphology.**

560b. **Insect Taxonomy.**

561a. **Medical Arthropodology.**

561b. **Economic Entomology.**

DEPARTMENT OF BUSINESS ADMINISTRATION

W. A. THOMPSON, M.B.A.,	Professor
E. G. JARMAIN, B.A.,	Associate Professor
R. B. TAYLOR, B.A.,	Instructor
S. W. DUNN, A.B., M.B.A.	Instructor
W. R. WAUGH, B.A.,	Instructor
C. C. CARROTHERS, B.A. LL.B.,	Lecturer
G. A. BROOKS, M.A.	Lecturer
R. B. WILLIS, M.A.,	Lecturer
G. H. MCKEE, B.Eng., M.B.A.,	Lecturer

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

3 hours a week: 3 credits.

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

2 hours a week: 2 credits.

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

2 hours a week: 2 credits.

Honors Courses

250. **Accounting:** Bookkeeping and financial statement procedure, including the development of modern accounting records, special journals, work sheets and working papers and an introduction to partnership and corporation accounting.

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

255. **Business Statistics:** Importance to the business executive; the use and interpretation of business and economic statistics; laboratory work; second semester includes an analysis of business conditions.

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

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

3 hours a week: 3 credits.

350. **Advanced Accounting:** First term: problems of valuation; preparation of accounting statements, principles of analysis, statement of funds, their sources and application; assets, liabilities, capital stock, surplus and reserves; second term: consignments, instalment sales, branch house accounting, mergers, holding companies, consolidated balance sheets and profit and loss statements, receivership accounting, statement of affairs, realization and liquidation, dissolution of partnership, accounting for estates and trusts.

3 hours a week: 3 credits.

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

3 hours a week: 3 credits.

353. **Finance Problems:** Individual investment policies, administration of investment houses, commercial banks and finance companies; the financial problems of a business and its relations with financial institutions.

3 hours a week: 3 credits.

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

3 hours a week: 3 credits.

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

3 hours a week: 3 credits.

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

3 hours a week: 3 credits.

453. **Financial Management:** The financial administration and policy of business enterprises, financial budgeting; the analysis and management of investments and the formation of investment policies for different types of investors.

3 hours a week: 3 credits.

454. **Industrial Management:** A study of the various aspects of a factory and the methods and techniques commonly used for controlling them. Business 460 and 452 must be taken concurrently.

3 hours a week: 3 credits.

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

3 hours a week: 3 credits.

459. **Research:** The investigation and report of a problem, chosen in consultation with the head of the department and the instructor under whose guidance the investigation is made.

1½ credits.

460a. **Auditing:** Duties and responsibilities of auditors; kinds of audits and audit programs; audit theory and practice. Must be followed by Business 460b.

3 hours a week: 1½ credits.

460b. **Cost Accounting:** The collection of cost data for the control of manufacturing operations.

3 hours a week: 1½ credits.
Prerequisite: Business 460a.

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

3 hours a week: 3 credits.

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

3 hours a week: 3 credits.

481b. **International Commercial Relations**: Foreign trade, trends and factors (raw materials, manufactured goods, tariffs, investments); branch factories; exporting; credit financing and exchange; transportation; marine insurance.

3 hours a week: 1½ credits.

One Year Intensive Courses for Graduate Students
Business Administration

The purpose of this course (see page 73) is to emphasize the fundamental principles in accounting, finance, production and distribution. The courses specified (Business Administration 250, 255, 351, 353, 354 or 454) will be supplemented by special lectures.

Public Administration (see page 74)

Courses Leading to the M.A. Degree

Accounting (550), Distribution (551), Finance (553), Production (554). The hours and credits to be assigned for these courses will be decided by the Department. Students desiring to take this work should consult the Head of the Department at as early a date as possible before the opening of the autumn term.

DEPARTMENT OF CHEMISTRY

University College

J. A. GUNTON, Ph.D., F.C.I.C.,	Professor
JAMES W. BURNS, M.Sc., F.C.I.C.,	Professor of Organic Chemistry
C. SIVERTZ, M.Sc., Ph.D.,	Associate Professor
K. W. HUNTEN, M.Sc., Ph.D., M.C.I.C.	Associate Professor
J. K. WATSON, Ph.D., M.C.I.C.,	Assistant Professor
JAMES NICHOL, B.A., M.Sc.,	Senior Demonstrator
G. THOMAS, B.A.	Demonstrator
W. R. ARCHER, B.A.	Demonstrator
N. THIBERT, B.A.	Demonstrator
J.GLUCK, B.A.	Demonstrator
F. W. PYE,	Instrument Maker
JOHN DRAKE,	Curator
JUNE DRAKE,	Storeroom Assistant
MRS. VERNA LEAH,	Secretary

Assumption College

REV. F. S. RUTH, B.A.,	Associate Professor
J. P. TRUANT, B.S.A.,	Instructor
SISTER M. ISABEL OF CARMEL, B.A.,	Instructor
MAURICE J. MULLIGAN, M.A.,	Instructor

Waterloo College

B. W. KELLEY, B.A.,	Professor

10. **General Chemistry:** For Junior Group 1; lectures and laboratory work. The laboratory work consists of experiments covering the principles of General Chemistry and Qualitative Analysis. **To qualify for Honors Courses in Chemistry a student must obtain 60 per cent. in Chemistry 10.**

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

Text-books: Deming, *General Chemistry* (Wiley).
Belcher and Williams, *Qualitative Analysis* (Houghton, Mifflin).
Lewis, *Outline of First Year Chemistry* (Barnes and Noble).
Richardson and Scarlett, *College Chemistry* (Holt).

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

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

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

21a. **General and Qualitative Analysis:** For students in General Science.

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

Text-book: Richardson and Scarlett, *College Chemistry* (Holt).

21b. **Qualitative and Quantitative Analysis:**

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

Text-book: Arenson and Rieveschl, *Quantitative Analysis* (Crowell).

22. **Analytical:**

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

Prerequisite: Chemistry 10 or 11N.

Text-books: Booth and Damerell, *Quantitative Analysis* (McGraw, Hill).
Arenson and Rieveschl, *Introduction to Quantitative Analysis* (Crowell).

23b. **Introduction to Organic Chemistry:** For students in General Science.

2 lectures a week, second term: 1 credit.

Text-book: Wertheim, *Organic Chemistry* (Academic Press).

33. **Organic Chemistry:** Lectures dealing with the aliphatic and aromatic hydrocarbons and their derivatives. Prescribed for Home Economics students (HE sections) and for General Science (GS sections).

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

Prerequisite: Chemistry 10, 22, or 21, 23.

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

34b. **Physical Chemistry:** For students in General Science.

3 lectures, 3 laboratory hours a week second term: 2½ credits.

Text-book: Amsden, *Physical Chemistry for Pre-medical Students* (McGraw, Hill).

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

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

Prerequisites: Chemistry 10, 22, 33.

Text-book: Gucker and Meldrum, *Physical Chemistry* (American).

46a. **Elementary Biochemistry:**

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

46b. **Applied Biochemistry and Food Analysis:**
1 lecture, 5 laboratory hours a week: 1½ credits.
Prerequisites: Chemistry 22, 33.

Text-books: Mitchell, *Text-book of Biochemistry* (McGraw, Hill).
Harrow, *Laboratory Manual of Biochemistry* (Saunders).
Woodman, *Food Analysis* (McGraw, Hill).
Everett, *Medical Biochemistry* (Hoeber).
Bodansky, *Introduction to Physiological Chemistry* (Wiley).

Honors Courses

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

200, 250. **Second Course in Chemistry:** For students in Honors Chemistry, Chemistry and Physics, Biology, Geology; chemical principles.
2 lectures, 4 laboratory hours a week: 4 credits.

Text-books: Chapin, *Exercises in Second Year Chemistry* (Wiley).
Chapin and Steiner, *Second Year Course in Chemistry* (Wiley).

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

252. **Quantitative Analysis:**
First term: 2 lectures 4 laboratory hours;
Second term: 1 lecture, 8 laboratory hours: 4½ credits.

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

303. **Organic Chemistry:** Lectures and laboratory exercises dealing with carbon compounds.
3 lectures, 3 laboratory hours a week: 4½ credits.
Prerequisite: Chemistry 10, 200 or 250.

Text-books: Lucas, *Organic Chemistry* (American).
Morton, *Organic Chemistry Technique* (McGraw, Hill).
Fuson and Snyder, *Organic Chemistry* (Wiley).
Cheronis, *Organic Chemistry* (Crowell).
Semi-Micro and Macro Organic Chemistry (Crowell).
Richter, *Organic Chemistry* (Wiley).

352. **Quantitative Analysis:** For General Science students.
1 lecture, 5 laboratory hours a week: 3 credits.

354. **Elementary Physical Chemistry:** A systematic derivation of the principles which govern reactions in chemical systems.
2 lectures, 6 laboratory hours a week: 5 credits.
Prerequisite: Chemistry 250.

Text-books: Findlay, *Practical Physical Chemistry* (American).
Getman and Daniels, *Principles of Theoretical Chemistry* (Wiley).
Partington and Tweedle, *Calculations in Physical Chemistry* (Blackie).
Millard, *Physical Chemistry for Colleges* (McGraw, Hill).

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

1 lecture a week: ½ credit.

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

444. **Physical Chemistry:** A descriptive and non-mathematical treatment of the principles which govern reactions in chemical systems, with discussion of their application to the other branches of science and to the industries.

2 lectures, 3 laboratory hours a week: 3½ credits.
Prerequisites: Chemistry 200 or 250.

Text-book: Gucker and Meldrum, *Physical Chemistry* (American).

451a. **Electrochemistry:**

2 lectures, 4 laboratory hours a week: 2 credits.
Prerequisite: Chemistry 354 or 444.

Text-book: Creighton and Koehler, *Electrochemistry* (Wiley).

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

1 lecture, 7 laboratory hours a week: 2 credits.

Text-books: Weissberger, *Physical Methods of Organic Chemistry, Vols. I, II* (Interscience).
Benedetti-Pichler, Spikes, *Microtechnique of Inorganic Analysis* (Wiley).

453. **Advanced Organic Chemistry:**

2 lectures, 3 laboratory hours a week: 3½ credits.
Prerequisite: Chemistry 303.

Text-books: Thorpe and Whitely, *Organic Analysis* (Longmans, Green).
Whitmore, *Organic Chemistry* (Van Nostrand).
Fuson and Snyder, *Organic Chemistry* (Wiley).
McElvain, *Characterization of Organic Compounds* (Macmillan).

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

2 lectures, 4 laboratory hours a week: 4 credits.
Prerequisite: Chemistry 354 or 444.

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

455b. **Colloid Chemistry:**

2 lectures, 4 laboratory hours a week: 2 credits.
Prerequisite: Chemistry 200 or 250.

Text-books: Kruyt, *Colloids* (Wiley).
Holmes, *Laboratory Manual of Colloid Chemistry* (Wiley).
Hartman, *Colloid Chemistry* (Houghton Mifflin).
Hauser and Lynn, *Laboratory Manual in Colloid Chemistry.*

456b. **Biochemistry:** A survey.

2 lectures, 3 laboratory hours a week: 1½ credits.
Prerequisite: Chemistry 303.

Text-books: Bodansky, *Introduction to Physiological Chemistry* (Wiley).
Everett, *Medical Biochemistry* (Hoeber).
Mitchell, *Text-book of Biochemistry* (McGraw, Hill).

457. **History of Physical Sciences:**
2 lectures a week: 2 credits.

458. **Seminar:** Presentation of papers on topics selected from the current chemical journals, dealing with the more recent and fundamental developments of the science; prescribed for fourth year Honors Chemistry students and desirable for all students majoring in Chemistry. 1 credit.
Combines with a comprehensive examination for 3 credits.

459. **Research:** Special topics and laboratory methods in the field of the student's individual interest. The second term will be devoted to a research problem upon which a report will be required as a senior thesis.
9 hours a week: 4½ credits.

Courses Leading to the Degree of M.A. or M.Sc.

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

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

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

DEPARTMENT OF CLASSICS

University College

J. D. RALPH, Ph.D.,	Professor
R. E. K. PEMBERTON, M.A.,	Associate Professor
D. O. ROBSON, Ph.D.,	Associate Professor

Alma College

PRINCIPAL PERRY S. DOBSON, M.A., D.D.,	Professor

Assumption College

REV. T. J. VAHEY, M.A.,	Professor
SISTER M. ROSALIE, M.A.,	Associate Professor
SISTER M. AIMÉE DU SACRÉ COEUR, M.A.,	Instructor
REV. G. H. POTTS, B.A.,	Instructor

St. Peter's College

REV. F. J. P. LAVERTY, B.A.,	Instructor

Ursuline College

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

Waterloo College

A. E. RAYMOND, M.A.,	Professor
REV. ULRICH LEUPOLD, Ph.D.,	Lecturer

Huron College

REV. M. B. PARKER, M.A., B.D.,	Instructor
REV. CANON K. E. TAYLOR, M.A., B.D., O.B.E.,	Lecturer

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

LATIN

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

10. Selections from Latin Prose and Poetry; composition and sight translation.

3 hours a week: 3 credits.

Prerequisites: Grade XII or Middle School Latin.

Text-books: Bonney and Niddrie, *Latin Prose and Poetry, Part I* (Ginn).
Bonney and Niddrie, *Latin Prose Composition* (Ginn).

20. Martial; Pliny; Virgil, *Aeneid VI;* composition; sight translation.

3 hours a week: 3 credits.

Prerequisite: Latin 10 or Grade XIII Latin.

Text-books: Kennedy, *Martial and Pliny* (Cambridge).
Page, *Virgil, Aeneid VI* (Macmillan).
Arnold, *Latin Prose Composition* (Longmans).

25x. **Introduction to Mediaeval Latin:** Cicero, *De Amicitia;* St. Ambrose, *Hymns and Homilies;* St. Augustine, *Confessions;* a comparative study of the thought and style of Cicero and St. Augustine; syntax and composition. Offered in St. Peter's College only.

3 hours a week: 3 credits.

30. 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.

Text-books: Simpson, *Select Poems of Catullus* (Macmillan).
Page, *Virgil, Bucolics and Georgics* (Macmillan).
Page, *Horace, Odes* (Macmillan).
Harrington, *The Roman Elegiac Poets* (American).

35x. **Survey of Mediaeval Latin:** From the death of St. Augustine to the 12th Century; lectures on Latin style and culture of the period; syntax and composition. Offered in St. Peter's College only.

3 hours a week: 3 credits.

Text-book: Harrington, *Mediaeval Latin.*

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

1 hour a week: 1 credit.

Text-books: Mackail, *Latin Literature* (Macmillan).
The Complete Works of Horace (Modern Library).
Virgil's Works (Modern Library).

40. Virgil, *Aeneid I-VI;* Horace, *Satires, Epistles;* Juvenal, *Satires;* composition, sight translation.

3 hours a week: 3 credits.

Prerequisite: Latin 30.

Text-books: Morris, *Horace, Satires and Epistles* (American).
Hardy, *Juvenal* (Macmillan).
Page, *Virgil, Aeneid I-VI* (Macmillan).

45x. **Survey of Mediaeval and Renaissance Latin:** From the 12th Century to the present; lectures on Latin style and culture; syntax and composition. Offered in St. Peter's College only.

3 hours a week: 3 credits.

Text-book: Harrington, *Mediaeval Latin.*

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.

2 hours a week: 2 credits.

Prerequisite: Group 3 or 4, page 62.

Text-books: Simpson, *Select Poems of Catullus* (Macmillan).
Page, *Virgil, Bucolics and Georgics* (Macmillan).
Page, *Horace, Odes* (Macmillan).
Harrington, *The Roman Elegiac Poets* (American).

250. Cicero, *De Amicitia.*

1 hour a week: 1 credit.

Prerequisite: Group 3 or 4, page 62.

Text-book: Reid, *Cicero, De Amicitia* (Macmillan).

251. **Syntax and Composition:**

2 hours a week: 2 credits.

Prerequisite: Group 3 or 4, page 62.

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

3 lectures a week: 3 credits.

Text-books: Smith and Moorhead, *A Short History of the Ancient World* (Appleton-Century).
Atlas of Ancient and Classical Geography (Everyman's, Dent).

340. Virgil, *Aeneid I-VI;* Horace, *Satires* and *Epistles;* Juvenal, *Satires.*

2 hours a week: 2 credits.

Prerequisite: Latin 230.

Text-books: Morris, *Horace, Satires and Epistles* (American).
Hardy, *Juvenal* (Macmillan).
Page, *Virgil, Aeneid I-VI* (Macmillan).

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

2 hours a week: 2 credits.
Prerequisites: Latin 230, 250.

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

351. **Syntax and Composition:**

1 hour a week: 1 credit.
Prerequisite: Latin 251.

352. **Roman Comedy** with an introduction to historical Latin Grammar.

1 hour a week: 1 credit.
Prerequisites: Latin 230, 250.

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

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

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

Text-books: Poteat, *T. Livius Narrator* (Prentice-Hall).
Furneaux, *Tacitus, Annals I-VI* (Oxford).

451. **Syntax and Composition:**

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

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

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

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

453. **Philology, Epigraphy, Palaeography, Archaeology:** lectures and readings. To be taken with Greek 453.

3 hours a week, one term: 1½ credits.
Prerequisites: Latin 340, 350, 352.

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

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

2 hours a week: 2 credits.

GREEK

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

In order that this course may count for credit towards a degree, Greek must be studied for three years. Arts students, on completing this course, will take Greek 10 and 20. Theological students, on completing this course, will take Greek 25x and 35x (pp. 114-5).

3 hours a week: 3 credits.

Prerequisite: complete college entrance without Greek.

Text-books: Ritchie, *First Steps in Greek* (Longmans).
Phillpotts and Jerram, *Easy Selections from Xenophon*, Chapters 4, 5 (Macmillan).
Colson, *Greek Reader, Pt. IV.* (Macmillan).

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

3 hours a week: 3 credits.

Prerequisite: Grade XII Greek or Greek 1.

Text-books: Burnet, *Plato, Euthyphro, Apology and Crito* (Oxford).
Colson, *Greek Reader* (Macmillan).
North and Hillard, *Greek Prose Composition* (Copp, Clark).

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

3 hours a week: 3 credits.

Prerequisite: Greek 10 or Grade XIII Greek.

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

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

1 hour a week: 1 credit.

Text-book: *The Oxford Book of Greek Verse in Translation* (Oxford).

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

3 hours a week: 3 credits.

Prerequisite: Greek 20.

Text-books: Burnet, *Plato, Euthyphro, Apology and Crito* (Oxford).
Merry, *Aristophanes, Clouds* (Oxford).
Rennie, *Selections from Homer* (Arnold).
Wainwright, *Homer, Iliad, Bk. I* (Bell).

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

3 hours a week: 3 credits.

Prerequisite: Greek 30.

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

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.

2 hours a week: 2 credits.

Prerequisite: Group 4, page 62.

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

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

1 hour a week: 1 credit.

Prerequisite: Group 4, page 62.

Text-books: Monro, *Homer, Iliad* (Oxford).
Merry, *Homer, Odyssey* (Oxford).

251. **Syntax and Composition:**

1 hour a week: 1 credit.

Prerequisite: Group 4, page 62.

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

3 lectures a week: 3 credits.

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

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

2 hours a week: 2 credits.

Prerequisite: Greek 230.

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

350a. **Introduction to the Greek Historians:** Herodotus.

2 hours a week: 1 credit.

Prerequisite: Greek 230.

Text-book: Smith and Laird, *Herodotus, Books VII and VIII* (American).

350b. **The Attic Orators:** Lysias and Demosthenes.

2 hours a week: 1 credit.

Prerequisite: Greek 230.

Text-books: Shuckburgh, *Lysiae Orationes XVI* (Macmillan).
Sandys, *Demosthenes, Philippic I, Olynthiacs I, II, III* (Macmillan).

351. **Syntax and Composition:**

1 hour a week: 1 credit.

Prerequisite: Greek 251.

352. **Introduction to Greek Philosophy:** Plato, *Republic, I-IV.*

1 hour a week: 1 credit.
Prerequisite: Greek 230.
Text-book: *Plato, Republic* (Oxford Classical Texts).

450. **The Greek Historians:** Thucydides.

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

451. **Syntax and Composition:**

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

452. **Greek Philosophy:** Plato, *Republic, V-X;* Aristotle, *Ethics, I, II, IV, X.*

3 hours a week: 3 credits.
Prerequisite: Greek 340, 350.
Text-books: *Plato, Republic* (Oxford Classical Texts).
Aristotle, Ethics (Oxford Classical Texts).

453. **Philology, Epigraphy, Palaeography, Archaeology:** Lectures and readings. Taken with Latin 453.

3 hours a week, one term: 1½ credits.
Prerequisite: Greek 340, 350.
Text-books: See Latin 453.

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

2 hours a week: 2 credits.

Biblical Greek

The purpose of the following courses is to provide theological students with instruction in Biblical Greek to enable them to make practical use of it in their subsequent work and to consult the originals of the important theological work of Greek patristic writers.

The fullest and most compact Lexicon is entitled *A Greek-English Lexicon to the New Testament,* thirteenth edition, revised by Rev. T. S. Green, published by S. Bagster and Sons, London.

1x. A preparatory course, leading up to a standard equivalent to matriculation, in Alexandrian (New Testament) Greek, arranged especially for theological students in Huron College.

See note under Greek (p. 112).

3 hours a week: 3 credits.
Text-book: Machen, *New Testament Greek for Beginners.*

25x. The Gospels of St. Mark and St. John; Galatians; The Acts of the Apostles; composition; sight translation. Offered by Huron College.

3 hours a week: 3 credits.
Prerequisite: Greek 1 or Greek 1x or Middle School Greek.
Text-books: *Greek Testament* (B. and F. Bible Society).
Nunn, *Syntax of New Testament Greek* (Cambridge).
Cambridge Greek Testament Series.

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

3 hours a week: 3 credits.

Text-books: See Greek 25x.

49x. New Testament Greek with special attention to grammar and syntax. The Gospel of St. John and the Book of Acts will be read, the former in connection with the study of the Harmony of the Gospels. Other New Testament literature will be read at sight, in order to gain a knowledge of the different styles of the various writers. For Waterloo College students only.

3 hours a week: 3 credits.

Prerequisite: Greek 20.

Text-books: Eberhard Nestle, *A Syntax of Testament Greek* (Munn).
White, *First Greek Book.*
Robertson, *A Harmony of the Gospels.*

DEPARTMENT OF ECONOMIC AND POLITICAL SCIENCE

University College

M. K. INMAN. Ph.D.,	Professor
E. E. REILLY, B.S.A., M.S., F.R.E.S.,	Professor
W. B. HARVEY, LL.B., Ph.D.,	Associate Professor
E. G. PLEVA, Ph.D.,	Associate Professor
C. J. BITTNER, Ph.D.,	Assistant Professor
D. IVOR, Ph.D.,	Assistant Professor
*L. IGNATIEFF, B.A.,	Instructor
JUDGE ERIC CROSS, M.A., K.C.,	Lecturer
C. C. CALDER, M.A.,	Lecturer
MRS. R. W. TORRENS, M.A.,	Lecturer

Waterloo College

J. E. OSBORNE, M.A.,	Assistant Professor

Assumption College

G. R. HORNE, M.A.,	Professor
REV. F. L. BURNS, Ph.D.,	Associate Professor
D. BARATH, Ph.D.,	Assistant Professor

Ursuline College

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

20. **Introduction to Economics:** The elementary economic concepts; production, exchange, consumption and distribution of wealth; money and banking; business cycle; international trade; labour problems; public finance; government regulation; the evolution of our economic system and its legal setting at the present time.

3 hours a week: 3 credits.

Text-book: Logan and Inman, *A Social Approach to Economics* (Toronto Press).

* On leave, 1946-47.

28. **Introduction to Sociology:** First term: an analysis of group life, social contacts, social interaction, social forces, social conflicts, accommodation, assimilation, amalgamation, collective behavior and social control; second term: applied sociology; sociological approach to the study of modern social problems; social factors of individual and group disorganization, private and public ameliorative institutions, social case work, social legislation, social reconstruction, social security, social control.

3 hours a week: 3 credits.

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.

30a. **Civics:** A study of the organization and function of civil government in Canada, local, provincial and Dominion; Dominion-Provincial relationships; social legislation; social, economic and political problems relating to the welfare of the Canadian nation.

3 hours a week: 1½ credits.

31b. **Introductory Course:** Basic concepts, price system, factors affecting size and distribution of national income, international trade, the relation of monetary and fiscal policies to the problem of full employment. Prescribed for third year General Science students.

3 hours a week: 1½ credits.

32a. **Introduction to Political Science:** The state, its origin, form and activities, and the working of governments, particularly those of the United Kingdom, Canada, the United States, France and Switzerland. Reference will also be made to the governments of the new states of Central Europe, and the United Nations.

3 hours a week: 1½ credits.

32b. **Comparative Economic and Political Systems:** A critical study of Socialism, Communism and Fascism; an examination of the economic and political systems of Germany, Italy and the Soviet Union.

3 hours a week: 1½ credits.

33. **Money and Banking:**

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

Part 2. Monetary theory, long run theories, short run theories; development of short run economics, the bullion controversy, the banking and currency schools, contemporary European monetary theories; policies and

practices of central banks; monetary and economic ideals and palliatives; economic equilibrium in international exchange.

3 hours a week: 3 credits.

35a. **Statistical Methods:** An introduction to statistical methods applied to Economics; graphical methods and tabulation; frequency distributions; measures of central tendency; measures of variability; probability; the normal curve; correlation; linear, non-linear, partial and multiple; reliability and validity; analysis of time series; index numbers.

3 hours a week: 1½ credits.

37a. **Economic Development of Russia:** A survey of the developments of the Russian Nation in its economic, political and cultural aspects.

3 hours a week, first term: 1½ credits.

37b. **Economic and Political Organization of the Soviet Union:** A survey of the structure and function of the Soviet State, and its place in the community of nations.

3 hours a week, second term: 1½ credits.

38a. **Social Anthropology:** A systematic study of the nature, form and function of primitive social groups in their natural environment; the genesis and development of social institutions and of the various cultural products, such as primitive customs, folkways, mores, religion, art, mythology. The course provides a point of view and a method for the study of the evolution of modern society.

3 hours a week: 1½ credits.

39T. **Rural Sociology:** The rural citizen, the school in the community, education for rural living, co-ordination of rural interests. Summer School only.

7 hours a week: 1½ credits.

39a. **Social Aspects of Industrial Relations:** The industrial community as a foundation of modern society; changing group relationships and modern technology; types and potentialities of economic planning and social legislation; freedom and social control.

3 hours a week: 1½ credits.

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. Offered in Ursuline College only.

2 hours a week: 2 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.

Text-book: *The Municipal Act. The Assessment Act (Ontario).*

46. **Labor, Theory and Problems:** The study of the organized labor movements in Europe, in the United States and in Canada; the forms of labor organizations, their economic problems; the problems of unemployment, wages, hours of labor; the problems of child labor; industrial accidents, industrial conflicts, conciliation, mediation, arbitration; the trends in modern labor legislation.

3 hours a week: 3 credits.

47b. **International Relations:** The problems arising from the absence of world government; economic harmonies and conflicts; Nationalism, Militarism, Imperialism; the causes of war and the efforts to avoid it; diplomacy, arbitration, the World Court, International Law, and the United Nations.

3 hours a week: 1½ credits.

48a. **Population Problems:** The history of population theories; the quantitative and qualitative aspects of population; the problems of race-mixing; the racial capacity for progress; race-relations; population movements; migration, invasion, immigration, emigration, the amalgamation of races, the problems of eugenics and euthenics.

3 hours a week: 1½ credits.

49b. **Criminology:** The causes and the extent of crime; critical analysis of the different schools of criminology and penology; the methods of treatment of crime; prison work; the honor system; self-government; indeterminate sentence; probation and parole.

3 hours a week: 1½ credits.

Honors Courses

The following honors courses are identical with the general courses indicated (for descriptions, see pages 116ff.), except that additional assignments will be required: 228 (28), 233 (33), 330a (30a), 332a (32a), 332b (32b), 335a (35a), 337a (37a), 337b (37b), 338a (38a), 339a (39a), 342b (42b), 346 (46), 347b (47b), 348a (48a), 449 (49).

251b. **Transportation and Communication: Trade Centres and Trade Routes.** The course deals with the problems of transportation and communication in its geographic, economic, and cultural aspects. Main topics are: analysis and functional structure of the trade centre, the geographic bases of trade, the world shipping industry, inland waterways, the Great Lakes-St. Lawrence problem, competition of transportation companies, rate-making theory and practice, highways, airways, communications, and the transportation problem of Canada.

2 hours a week: 1 credit.

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

2 hours a week: 1 credit.

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

2 hours a week: 1 credit.

259. **Economic Geography:** Its social and commercial aspects; the geographic factors of climate, soils, natural vegetation, etc., in relation to commercial production; a systematic approach to the agricultural regions of the world; products of the sea, products of the earth's crust, products of the forest, production of power, and the manufacturing regions of the world.

2 hours a week: 2 credits.

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

3 hours a week: 1½ credits.

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

3 hours a week: 1½ credits.

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

3 hours a week: 1½ credits.

351a. **International Trade and Commercial Policies:** International values, foreign exchange, free trade and protection, commercial treaties, quotas and exchange controls.

3 hours a week: 1½ credits.

353a. **Business Finance:** The promotion of business enterprises, types of organization, methods of financing, financial controls and dividend policies. Not given in 1947-48.

2 hours a week: 1 credit.

Text-book: Gerstenberg, *Financial Organization of Management.*

354b. **Agricultural Economics:** The place of agriculture in economic life, organization for agricultural production, factors chiefly responsible for success or failure, independent and co-operative marketing of agricultural products, the financing of agriculture, government policies and aid.

2 hours a week: 1 credit.

363b. **Investments:** The social significance of investments, tendencies in saving habits, individual and institutional investing, the principles of investments, analysis and evaluation of securities, tendencies in the merits and worth of securities. Not given in 1947-48.

3 hours a week: 1½ credits.

450a. **History of Economic Thought:** A survey of the history of economic theory.

3 hours a week: 1½ credits.

452a. **History of Political Thought:** A survey of the development of political theory from the classical period to the end of the eighteenth century.

3 hours a week: 1½ credits.

453b. **Public Finance:** Governmental expenditures, revenues, borrowing and debt structures; the shifting and incidence of taxation; government activities and financial policies.

3 hours a week: 1½ credits.

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

3 hours a week: 1½ credits.

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

3 hours a week: 1½ credits.

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

3 hours a week: 1½ credits.

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

3 hours a week: 1½ credits.

478a. **Methods of Sociological Research:** The types of sociological research, the historical, the case method, the survey, the experimental, the statistical; critical analysis of the various points of view and approach in sociological studies; individual research projects by each student.

3 hours a week, one term; 1½ credits.

490b. **Seminar Course:** Current economic literature and problems, research.

2 hours a week: 1 credit.

Courses Leading to the Degree of M.A.

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

DEPARTMENT OF ENGLISH

University College

W. F. TAMBLYN, Ph.D., Litt.D.,	Professor Emeritus
J. A. SPENCELEY, M.A.,	Professor Emeritus
A. R. JEWITT, Ph.D.,	Professor
MRS. F. S. ALBRIGHT, M.A.,	Associate Professor
F. STILING, M.A.,	Associate Professor
M. H. M. MACKINNON, M.A.	Assistant Professor
G. E. BUCKLEY, M.A.,	Assistant Professor
JEAN I. WALKER, A.L.C.M.,	Instructor
DORIS LIDDICOATT, M.A.,	Instructor
W. E. D. ATKINSON, B.A.,	Instructor
T. R. DALE, M.A.,	Instructor
FLORA MACPHERSON, B.A.,	Instructor
MRS. K. P. R. NEVILLE, M.A.,	Instructor
H. R. HALL, B.A.,	Instructor
A. B. CONRON, B.A., D.S.O.,	Lecturer
LOUISE WYATT, B.A.,	Lecturer

Alma College

HELEN HARDY, B.A.,	Instructor

Assumption College

REV. E.C. LEBEL, M.A.,	Professor
*REV. E. G. LEE, M.A.,	Associate Professor
REV. J. S. MURPHY, M.A.,	Associate Professor
REV. J. F. MURPHY, Ph.D.,	Associate Professor
W. H. KENNER, M.A.	Assistant Professor
REV. C. P. J. CROWLEY, M.A.,	Assistant Professor
SISTER M. ELECTA, M.A.,	Professor
SISTER M. ROSALIE, M.A.,	Associate Professor
E. S. J. PAULUS, B.A.,	Assistant Professor
T. H. USHER, B.A.,	Lecturer

Ursuline College

*MOTHER M. ST. JAMES, M.A.	Professor
MOTHER MARY AUGUSTINE, B.A.,	Instructor
MOTHER M. ST. CATHERINE, B.A.,	Instructor

St. Peter's College

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

Waterloo College

CARL F. KLINCK, Ph.D.,	Professor
URITH T. SEYMOUR, A.T.C.M., L.C.S.E.,	Lecturer

10. **English Poetry, Prose and Drama:**

A. A critical study of: Shakespeare, *Richard II, Romeo and Juliet;* selected poems.

---

* On leave, 1946-47.

B. A careful reading of: Hèmon, *Maria Chapdelaine;* Hudson, *Green Mansions;* selected prose.

2 hours a week: 2 credits.

Text-books: *Richard II, Romeo and Juliet,* ed. Kittredge (Ginn).
Maria Chapdelaine (Macmillan).
Green Mansions (Modern Library).
Brooks and Warren, *Understanding Poetry* (Holt).

11. **Composition:** The mechanics of writing. Numerous essays and exercises will be required.

1 hour a week: 1 credit.

Text-books: Kierzek, *From Reading to Writing* (Macmillan).
The Concise Oxford Dictionary or *Webster's Collegiate Dictionary,* Fifth Edition.

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

1 hour a week: 1 credit.

Text-book: Hayworth, *Public Speaking* (Ronald Press).

20. **General Literature:** A survey of English Literature, with emphasis on the great writers.

2 hours a week: 2 credits.

Text-books: *The College Survey of English Literature* (Harcourt, Brace).
Shakespeare, *Hamlet* (Crofts).

21. **Composition and Rhetoric:** The relation of material to style. Numerous essays and exercises will be required.

1 hour a week: 1 credit.

Text-books: Sanders, Jordan, Limpus and Magoon, *Unified English Composition* (Crofts).
The Concise Oxford Dictionary or *Webster's Collegiate Dictionary,* Fifth Edition.

29. **Voice and Phonetics:** A theory and practice course in speech fundamentals, including phonetics, for improved oral expressiveness; attention to vocal tone, articulation, pitch, melody, quality, acceptable pronunciation.

2 hours a week; 2 credits.

Text-book: Borchers and Wise, *Modern Speech* (Harcourt, Brace).

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

3 hours a week: 3 credits.

Text-book: Woods, *Poetry and Prose of the Romantic Movement* (Scott, Foresman).

35. **General Literature:** A course involving the reading of selected novels, plays and poems, chiefly modern. In addition, modern prose writings

will be used as models of style and as material for discussion. The writing of essays, reports and précis will be required.

3 hours a week: 3 credits.

Text-books: (first term)
Conrad, *Lord Jim* (Modern Library).
Lewis, *Arrowsmith* (Modern Library).
Homer, *The Odyssey*, trans. E. V. Rieu (Penguin).
Hardy, *The Return of the Native* (Modern Library).
(second term)
Shaw, *Saint Joan* (Penguin).
Shaw, *The Doctor's Dilemma* (Penguin).
O'Neill, *Three Plays* (Modern Library).
Shakespeare, *Antony and Cleopatra* (Kittredge edition, Ginn).
Pratt, *Ten Selected Poems* (Macmillan).

36. **Modern British and American Drama:** A study of the leading dramatists, with a careful reading of representative plays.

3 hours a week: 3 credits.

Text-book: Whitman, *Representative Modern Dramas* (Macmillan).

38. **American and Canadian Literature:** Poetry, prose; the novel. Essays and reports will be required.

3 hours a week: 3 credits.

Text-books: Benet and Pearson, *The Oxford Anthology of American Literature* (Oxford).
Robins, *A Pocketful of Canada* (Collins).
A. J. M. Smith, *The Book of Canadian Poetry* (Gage).
Crawford, Kern and Needleman, *An Outline History of American Literature* (Barnes and Noble).

40. **Literature of the Victorian Period:** Poetry, prose; the novel from 1832 to 1900. Essays and reports will be required.

3 hours a week: 3 credits.

Text-book: Bowyer and Brooks, *The Victorian Age* (Crofts).

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

1 hour a week: 1 credit.

Text-book: Ware and Bailey, *From Fact to Fiction* (Appleton-Century).

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

3 hours a week: 3 credits.

Text-books: Untermeyer, *Modern British and American Poetry* (Harcourt, Brace).
Others to be announced.

Honors Courses

Beginning in May 1949, comprehensive examinations will be held at the end of the Honors Course. See page 39.

The following honors courses are identical with the general courses indicated (for descriptions, see pages 121ff.), except that additional read-

ing, seminars and reports will be required: 236 (36), 330 (30), 338 (38), 440 (40), 441 (41), 445 (45).

200. **Restoration and Eighteenth Century Literature:** Prose, poetry, and drama of the period 1660 to 1780.

2 hours a week: 2 credits.

Text-book: Shepard and Wood, *English Prose and Poetry, 1660-1800* (Houghton, Mifflin).

254. **Criticism and Bibliography:** A study of English literary criticism and the bibliography of English language and literature; essays and seminars.

2 hours a week: 2 credits.

Text-books: *List of Reference Works and Bibliographical Aids* (U. W. O.)
Lieder and Withington, *The Art of Literary Criticism* (Appleton-Century).
Cowardin and More, *The Study of English Literature* (Holt).

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

3 hours a week: 3 credits.

Text-books: Neilson and Hill, *The New Cambridge Shakespeare* (Houghton, Mifflin).
Parks and Beatty, *The English Drama* (Norton).

357. **The History of the English Language:**

1 hour a week: 1 credit.

Text-book: Alexander, *The Story of Our Language* (Nelson).

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

2 hours a week: 2 credits.

Text-books: Smith, *An Old English Grammar and Reader* (Allyn and Bacon).
Bright and Hulbert, *Anglo-Saxon Reader* (Holt).

441. See 41. Optional with 468.

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

3 hours a week; 3 credits.

Text-books: Coffin and Witherspoon, *Sixteenth Century Prose and Poetry* (Harcourt, Brace).
Coffin and Witherspoon, *Seventeenth Century Prose and Poetry* (Harcourt, Brace).
Spenser, *Faerie Queene*, Books I-III (Oxford).
Milton, *Complete Poems*, ed. Patterson (Crofts).

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

2 hours a week: 2 credits.

Text-books: Robinson, *The Complete Works of Geoffrey Chaucer* (Houghton, Mifflin).
Skeat, *Piers Plowman, B-Text* (Oxford).
Middle English Prose and Poetry (U. W. O.)

468. **English Seminar:** Studies in English language and literature, directed by members of the department. Optional with 441.

1 hour a week: 1 credit.

Courses Leading to the Degree of M.A.

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

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

DEPARTMENT OF GEOLOGY AND GEOGRAPHY

University College

G. H. REAVELY, M.A., D.I.C.,	Professor
E. G. PLEVA, Ph.D.,	Associate Professor (Geography)
G. G. SUFFEL, Ph.D.,	Assistant Professor
G. WINSTON SINCLAIR, M.Sc.,	Assistant Professor
N. L. NICHOLSON, B.A., F.R.G.S.,	Lecturer (Geography)
DONALD GENTLEMAN, B.Sc.,	Demonstrator
FLORENCE E. MORRIS (MRS. J. E. B.), B.A.,	Demonstrator
THOMAS PARKS,	Demonstrator
JAMES BRYANT,	Demonstrator
BEN CHECHALK,	Demonstrator
HUGH DOUGLAS, B.A.,	Demonstrator
JORMA KALLIOKOSKI,	Demonstrator
ROBERT ROWE,	Demonstrator

Assumption College

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

Waterloo College

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

GEOLOGY

10. **Introductory Course in Physiography and General Geology:** Geological agents and processes, the structure of the earth, geomorphology, earth materials, metamorphism and its results, an outline of earth history, fossils and their use. Laboratory work will consist of the study of specimens

of the more common rocks and minerals, typical fossil specimens, the interpretation of geological maps and types of topography. Field trips.

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

Text-book: Longwell Knopf, Flint Schuchert and Dunbar, *Outlines of Geology* (Wiley).

11. **Geological Science:** A descriptive account of the more important geological phenomena and processes, with emphasis on topics of local interest.

3 lectures a week: 3 credits.

Optional in Junior Groups 2, 3, 4, and Senior Group B.

Text-book: Croneis and Krumbein, *Down to Earth* (University of Chicago Press).

Honors Courses

251. **Mineralogy:** Crystallography, physical and chemical properties of minerals. Blowpipe analysis and the study of about 100 common ore and rock forming minerals.

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

Text-book: Dana, Hulburt, *Manual of Mineralogy* 15th Ed. (Wiley, 1941).

263. **Invertebrate Palaeontology:** An introduction to the morphology of the principal groups of animals represented as fossils. Students will acquire a knowledge of the basic techniques and literature of the subject. Laboratory includes field trips.

2 lectures and 2 laboratory hours a week, first term: 1½ credits.

Text book: Twenhofel and Shrock, *Invertebrate Paleontology.*

264. **Principles of Stratigraphy:** An introduction to the methods of studying sedimentary rocks and interpreting them historically. A large portion of the course deals with sedimentation and the genetic significance of sediments in nature. Laboratory hours may be partly replaced by field trips.

2 lectures and 2 laboratory hours a week, second term: 1½ credits.

Text-book: Twenhofel, *Principles of Sedimentation.*

351a. **Mineral Optics:** The optical properties of crystals and the application of polarized light to the study and determination of the non-opaque minerals.

2 lectures and 2 laboratory hours a week, first term: 1½ credits.

Text-book: Rogers and Kerr, *Thin Section Mineralogy* (McGraw-Hill).

352b. **Optical Mineralogy:** Descriptive mineralogy of the non-opaque minerals with special emphasis on, and the significance of, composition in relation to optical properties. Laboratory work includes recognition of these minerals in specimen and in thin section.

2 lectures and 2 laboratory hours a week, second term: 1½ credits.

Text-book: Rogers and Kerr, *Thin Section Mineralogy* (McGraw-Hill) or Ford Dana's *Textbook of Mineralogy*, 4th Ed. (Wiley).

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

1 lecture and 2 laboratory hours a week: 2 credits.

Text-books: Bateman, *Economic Mineral Deposits.*
Short, *Microscopic Determination of the Ore Minerals.*

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 practise in map layout is given.

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

363. **Stratigraphical Palaeontology:** Fossils as indices of age. A detailed study of the more important groups which have practical value in correlation. Some attention is given to micro-fossil study.

2 lectures and 2 laboratory hours a week, first term: 1½ credits.

Text-book: Shimer and Shrock, *Index Fossils of North America.*

364. **Regional Stratigraphy:** Detailed study of the geological record with emphasis on the Palaeozoic, and especially the Palaeozoic of Eastern Canada. Field trips included.

2 lectures and 2 laboratory hours a week, second term: 1½ credits.

Text-book: Schuchert, *Stratigraphy of North America.*

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

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

Text books: E. L. Bruce, *Mineral Deposits of the Canadian Shield* (1933).
Publications of the Dominion and Provincial Governments.

451. Identical with Geology 251.

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

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

454. **Geology of Mineral Deposits:** A study of examples of the principal types of economic mineral deposits, with special reference to Canadian occurences. 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 and 5 laboratory hours a week: 2½ credits.

Text-books: Bateman, *Economic Mineral Deposits.*
Short, *Microscopic Determination of the Ore Minerals.*

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

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

Text-book: Billings, *Structural Geology* (Prentice-Hall).

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

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

460. **Seminar Reading and Discussion:** Various subjects and problems of current important geological interest are studied and discussed. Students are asked to make oral presentations.

2 hours a week: 1½ credits.

467. **Historical Geology:** An advanced course of varying content, based on the interests of the class but in general concerned with the philosophy and methodology of stratigraphy.

2 lectures hours, one term: 1 credit.

GEOGRAPHY

20. **Introduction to Geography:** A study of the natural landscape: weather, climate, land forms, plant and animal distribution, soils, resource patterns; the cultural elements of the landscape.

3 lectures a week, one term: 1½ credits.

This course can be taken either first or second term.

31. **Elements of Geography:** The earth as the home of man; an analysis of the elements of the natural and the cultural landscapes.

2 lectures a week, one term: 1 credit.

This course is not open to students who have taken Geography 20.

35. **Regional Geography:** A systematic approach to the study of the human geography of the world. The occupance of man in the major geographic subdivisions of the world is studied from the standpoint of climate, land forms, natural vegetation, soil, mineral resources, hydrography, and location.

3 lectures a week: 3 credits.

45a. **Geography of Canada:** The geographic bases of human occupance in Canada. The regional approach is used to discuss the economic, political, and social adjustments to the geographic environment.

3 lectures a week: 1½ credits.

45b. **Conservation of Natural Resources:** Conservation of soil and water resources; forests, parks, and grazing lands; wildlife; mineral resources; the conservation movement in Canada.

3 lectures a week: 1½ credits.

220. Identical with 20.

335. Identical with 35.

445a. Identical with 45a.

445b. Identical with 45b.

500. **Problems in Geography:** Discussions and readings on selected problems. This course may be elected by graduate students and by seniors who intend to do work of a geographic nature in graduate schools. Approval of the instructor is necesary for registration.

Hours by appointment: 2 credits.

DEPARTMENT OF GERMAN LANGUAGE AND LITERATURE

University College

R. A. ALLEN, Ph.D., Professor
H. K. KALBFLEISCH, M.A., Associate Professor
S. WEYL, M.A., Instructor

Assumption College

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

Ursuline College

MOTHER M. FELICITAS, Instructor

Waterloo College

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

General Courses

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

3 hours a week: 3 credits.

Text-books: Schinnerer, *Beginning German* (Original Edition, Macmillan).
Kästner, *Emil und die Detektive* (Holt).

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.

Text-books: Kalbfleisch, *German Grammar for Science Students.*
Hagboldt, *Anekdoten und Erzählungen* (Heath).
Fiedler and Sandbach, *A First German Course for Science Students* (Oxford).

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

3 hours a week: 3 credits.

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

Text-books: Schinnerer, *Continuing German* (Macmillan).
Fröschel, *Himmel, meine Schuhe!* (Heath).
Hagboldt, *Eulenspiegel und Münchhausen* (Heath).
Kästner, *Die verschwundene Miniatur* (Heath).
Hagboldt, *Von deutscher Sprache und Dichtung* (Heath).

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

3 hours a week: 3 credits.

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

Text books: Fulda, *Höhensonne* (Prentice-Hall).
Baum, *Der Weg* (Crofts).
Mann, *Unordnung und frühes Leid* (Prentice-Hall).
Zweig, *Brennendes Geheimnis* (Rinehart).
Corbett and Eichele, *Classified Revision Exercises in German* (Harrap).

30. **Outline of Modern German Literature:** From Romanticism to the present.

2 hours a week: 2 credits.

Prerequisite: German 20.

Text-books: *The Oxford Book of German Verse.*
Tieck, *Der blonde Eckbert* and *Die schöne Magelone* (Appleton-Century).
Grillparzer, *Weh dem, der lügt!* (Oxford).
Keller, *Die drei gerechten Kammacher* (Heath).
Sudermann, *Frau Sorge* (Heath).
Hauptmann, *Einsame Menschen* (Holt).
Mann, *Tonio Kröger* (Crofts).

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

1 hour a week: 1 credit.

Prerequisite: German 20.

Text-book: Cochran, *Practical German Review Grammar* (Prentice-Hall).

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

2 hours a week: 2 credits.

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

Text-book: Lenz, *Scientific German* (Norton).

40. **Outline of Classical German Literature.**

2 hours a week: 2 credits.

Prerequisite: German 30.

Text-books: *The Oxford Book of German Verse.*
Goethe, *Götz von Berlichingen* (Ginn).
Goethe, *Iphigenie* (Ginn).
Goethe, *Faust* (Part I) (Heath).
Schiller, *Wallenstein* (Holt).

41. **Prose Composition, Conversation, Grammar.**

1 hour a week: 1 credit.

Prerequisite: German 31.

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

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

Honors Courses

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

290. **German Romanticism.**
3 hours a week: 3 credits.
Prerequisites: Junior Group 4, see page 62.

291. **Grammar, Conversation, Free Composition, Phonetics.**
2 hours a week: 2 credits.
Prerequisites: Junior Group 4, see page 62.
Text-books: Cochran, *Practical German Review Grammar* (Prentice-Hall).

390. **German Realism.**
3 hours a week: 3 credits.
Prerequisite: German 290.

391. **Grammar, Conversation, Free Composition.**
2 hours a week: 2 credits.
Prerequisite: German 291.
Text-books: Morgan and Mohme, *German Review Grammar and Composition* (Heath).
Bihl, *Alltagsdeutsch* (Houghton, Mifflin).

393. **History of the German Language:** Elements of Middle High German grammar, readings in M. H. G. lyric.
1 hour a week: 1 credit.
Text-book: Wright, *Middle High German Primer* (Oxford).

460a. **Mediaeval German Literature.**
2 hours a week: 1 credit.
Prerequisite: German 393.
Text-books: Wenckebach, *Meisterwerke des Mittelalters* (Heath).
Der Nibelunge Not (Sammlung Göschen Nr. 1)
Eschenbach, *Parzival* (Sammlung Göschen No. 921).

460b. **Contemporary German Literature.**
2 hours a week: 1 credit.
Prerequisite: German 390.

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

481. **Grammar, Conversation, Free Composition.**
3 hours a week: 3 credits.
Prerequisite: German 391.
Text-books: Baerg, *Deutschland* (Holt).
Stewart, *Graphic Review of German Grammar* (Harper).

Courses Leading to the Degree of M.A.

Advanced work in German philology, literature, philosophy.

DEPARTMENT OF HEBREW

University College

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

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

Every student must provide himself with a *Hebrew Bible*, Bagster's *Hebrew-English Lexicon* and Davidson's *Hebrew Grammar*, last edition, revised by McFayden. Third-year students must have Davidson's *Hebrew Syntax;* advanced students are recommended to provide themselves with the *Oxford Hebrew Lexicon.*

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

10. Grammar, selections and exercises in translation from English into Hebrew and from Hebrew into English; translation of *Genesis* 1-4, 18; *Psalms*, 2, 8, 19, 23, 51. Grammatical analysis, parsing and vocabulary.

3 hours a week: 3 credits.

20. Grammar; exercises in translation from Hebrew into English and from English into Hebrew; pointing of simple passages; translation of *Genesis* 37, 40-45; *Exodus* 1-4; *I Kings* 17-19; *II Kings* 2, 17.

3 hours a week: 3 credits.

Prerequisite: Hebrew 10.

30. Grammar and syntax; exercises in translation from Hebrew into English and from English into Hebrew; pointing; introduction to prophetic writings; *Amos, Isaiah* 1-6, 40, 50-55; *Jeremiah* 7; *Ezekiel* 14.

3 hours a week: 3 credits.

Prerequisites: Hebrew 20.

40. Grammar, syntax, pointing; exercises in translation from English into Hebrew and from Hebrew into English; introduction to poetical writings; principles of Hebrew poetry; *Numbers* 23, 24; *Psalms* 1, 16, 24, 29, 37, 45, 50, 80, 84, 90, 91, 110, 121-134; *Ecclesiastes* 12; *Proverbs* 1-4; *Job* 28.

3 hours a week: 3 credits.

Prerequisite: Hebrew 30.

DEPARTMENT OF HISTORY

University College

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

Assumption College

*REV. E. G. LEE, M.A.,	Professor
REV. N. J. MURPHY, M.A.,	Professor
REV. E. M. YOUNG, B.A.,	Assistant Professor
P. J. MCMANUS, B.A.,	Lecturer
REV. D. J. MULVIHILL, B.A.,	Lecturer
SISTER M. ELIZABETH THERESE, M.A.,	Associate Professor
SISTER ALOYSIUS MARY, M.A.,	Instructor

Ursuline College

SISTER M. MERCEDES, M.A.,	Professor

Waterloo College

ALEXANDER POTTER, Ph.D.,	Professor

Alma College

HELEN HARDY, B.A.,	Instructor

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

3 hours a week: 3 credits.

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

3 hours a week: 1½ credits.

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

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

* On leave, 1946-47.

in Italy, Germany and France in particular; the Reformation in Germany and Switzerland.

3 hours a week: 1½ credits.

Text-book: Lucas, *The Renaissance and the Reformation* (Harper).

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

3 hours a week: 3 credits.

Text-book: Ferguson and Brunn, *A Survey of European Civilization* (Houghton, Mifflin).

31. **History of Canada:** Lectures, prescribed reading and essays. A survey from the beginning of the French Régime to the present.

2 hours a week: 2 credits.

Text books: Lower, *From Colony to Nation* or
Creighton, *Dominion of the North.*

33a. **The Development of Self-Government in the British Empire-Commonwealth:** Lectures, prescribed reading and reports. The lectures will be grouped under the following heads: the breakdown of the old Colonial System and Policy; British Colonial Policy at the beginning of the Nineteenth Century; the Colonial Reformers and the application of their ideas to Canada and to Australasia; the evolution of self-government in Canada, Australasia, South Africa and India; the growth of colonial nationalism and autonomy, culminating in the achievement of Dominion status; the constitution of the Dominion of Canada; of the Australian Commonwealth, of the Union of South Africa, of the Irish Free State and of India.

3 hours a week: 1½ credits.

Text-books: Knaplund, *The British Empire, 1815-1939.*
Robinson, *Development of the British Empire.*
Egerton, *Federations and Unions in the British Empire.*
Egerton, *Short History of British Colonial Policy.*
Egerton, *British Colonial Policy in the 20th Century.*
Scott, *Short History of Australia.*
Fairbridge, *History of South Africa.*
Currey, *British Colonial Policy.*

35S. **History of Great Britain:** the political, constitutional and cultural development of the British nation. The period from the Norman Conquest to the accession of George I (1715) will be covered in the first term. The subsequent history to the present will be presented in the second term. Lectures and prescribed reading. This course is primarily a refresher course for teachers, but is also optional in Senior Group B. Not given intramurally.

3 hours a week: 3 credits.

36a. **Modern History (1555-1830):** Lectures, prescribed reading and essays. The period from 1555 to 1648 will be covered only to outline the proper background for the Treaties of Westphalia, which provides the

setting for modern European History. The French Revolution and the era of Napoleon will be studied as a part of the revolutionary developments of the modern world which made the eighteenth century a sort of half-way house between mediaeval times and the present.

3 hours a week: 1½ credits.

Text-books: Hayes, *A Political and Cultural History of Modern Europe, 1500-1830, Vol. I* (Macmillan).
Robinson and Beard, *Readings in Modern European History, Vol. I* (Ginn).
Shepherd, *Atlas of Medieval and Modern History* (Holt).

36b. **Modern History (1830-1933):** Lectures, prescribed reading and essays: the growth of nationalism and democracy in Europe; political and social reform; scientific, social and economic movements; the colonial and commercial expansion of the European nations as the background of the First World War; the peace settlements; post-war international problems.

3 hours a week: 1½ credits.

Text-books: Schapiro, *Modern and Contemporary European History* (Houghton, Mifflin) or
Hayes, *A Political and Cultural History of Modern Europe, 1830-1935, Vol. II.*
Robinson and Beard, *Readings in Modern European History, Vol. II* (Ginn).
Shepherd, *Atlas of Medieval and Modern History* (Holt).

44. **History of the United States:** The colonial period, the revolution, making of the constitution, westward development, the slavery struggle, the Civil War, reconstruction and later political history to the present day; the character of federal and state governments. The period to the end of reconstruction (1877) will be covered in the first term and the period since that date in the second term.

2 hours a week: 2 credits.

Text-book: Muzzey, *History of the American People.*

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

3 hours a week: 1½ credits.

Text-book: Ferguson and Brunn, *A Survey of European Civilization* (Houghton, Mifflin).

46b. **Modern History:** A rapid survey course of Continental Europe from the Wars of Religion to the Peace Settlement following the World War (1648-1925). This course may not be chosen by a student who has credit for History 36.

3 hours a week: 1½ credits.

Text-book: See History 45a.

Honors Courses

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

3 lectures and a seminar a week: 1½ credits.

Prerequisites: Junior Group 3, p. 62.

Text-books: Hayes, *A Political and Cultural History of Modern Europe, 1500-1830, Vol. I* (Macmillan).
Robinson and Beard, *Readings in Modern European History, Vol. I* (Ginn).

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

3 lectures and a seminar a week: 1½ credits.

Prerequisites: Junior Group 3, p. 62.

Text-books: Hayes, *A Political and Cultural History of Modern Europe, 1830-1935, Vol. II.* Robinson and Beard, *Readings in Modern European History, Vol. II.*

257. **Ancient Civilizations:** The Near East, Greece and Rome. Identical with Latin 257 and Greek 257.

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

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

331. **History of Canada:** A survey from the beginning of the French Régime to the present; lectures, prescribed reading and essays.

Students in this course will be expected to do wide reading in *The Cambridge History of the British Empire, Vol. VI; The Chronicles of Canada; The Makers of Canada; Canada and its Provinces;* works on economic history, and standard biographies.

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

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

3 lectures and a seminar a week: 1½ credits.

354b. **History of Latin America:** Optional with 356b.

3 hours a week: 1½ credits.

356b. **International Relations and World Problems:** 1918 to the present; optional with 354b.

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

444. **History of the United States:** See History 44; prescribed for students of the fourth year in the Honors Course in History.

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

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

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

455. **British Political Parties:** The rise of the Tory and Whig Parties; the Revolution of 1688; the Tory Reaction in the reign of Anne; the "Reign of the Whigs"; the experiment in personal government of George III; the disruption of the old Whig Party; the new Tory Party under Pitt; the growth of Parliamentary Reform and Free Trade; Peel and Liberal Conservatism; Disraeli and Democratic Toryism; Gladstone and Modern

Liberalism; the Irish Parliamentary Party; the Unionist Party; the Labor-Socialist Party.

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

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

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

Courses Leading to the Degree of M.A.

The hours and credits to be assigned will be decided by the department. Students desiring to take these courses must notify the department of their intention not later than the June preceding the Fall term in which the work will be begun.

554. **American History:** A seminar course in selected problems in Canadian and United States history for advanced students who have the necessary prerequisite courses, or for graduate students.

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

DEPARTMENT OF HOME ECONOMICS

Ursuline College

MOTHER M. DOMINICA, M.A.,	Professor
MARIAN H. DERTINGER, B.A.,	Instructor
MOTHER M. ST. DOMINIC, B.Sc.,	Instructor
MARY J. ELLIS, B.A.,	Instructor

Alma College

CHARLOTTE PAULA WADE, M.A.,	Instructor

Holy Names College

SISTER M. ISIDORE, B.A.,	Instructor

25x. **Household Administration:** A study of the general principles of home construction, including discussions of such subjects as choice of sites, exterior and interior house designs, materials, cost of dwelling, home heating, lighting, plumbing, and kitchen-planning. The selection, care and use of home equipment; planning the work in the home.

2 hours a week: 1 credit.

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

2 hours a week: 1 credit.

30x. **Clothing:** A brief study of the history of textiles; an intensive study of cotton, linen, wool, silk, rayon, and such newer synthetic fibres as nylon; their structure, chemical and physical properties, weaves, manu-

facture and wearing qualities; selection and buying of household fabrics; practical tests of fabrics for adulteration.

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

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

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

2 lecture hours a week all year, 2 laboratory hours a week one term; 2½ credits. Prerequisites: Home Economics 26x.

32x. **Foods:** A study of the composition, manufacture and food value of various foods. The principles of cookery and food preparation, and the scientific theory underlying them. Introduction to experimental cookery. Readings and assignments.

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

33ax. **Interior Decoration:** Design and its application to the interior of the house; color theory and its application to ceiling, walls, floor, etc.; proportion, harmony, rhythm, and balance as applied to pieces of furniture or assembled furniture; period furniture; illustrated notebook and practical problems.

2 hours a week: 1 credit.

34bx. **Home Nursing and First Aid in the Home:** care of the sick; taking of temperatures and pulses; emergency treatment; First Aid and simple bandaging; prevention, symptoms and isolation of disease. Essays and practical problems.

2 hours a week: 1 credit.

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

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

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

Practical work consists of the selection and construction of an infant's garment, a woollen garment, a suit and pattern designing. Essays and practical problems.

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

Prerequisite: Home Economics 30x.

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

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

Prerequisite: Home Economics 31x.

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

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

Prerequisite: Home Economics 32x.

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

2 hours a week: 1 credit.

46bx. **Diet Therapy:** Modifications of the normal diet to meet specific dietary needs in disease, e.g., diabetes mellitus, arthritis, digestive disturbances, food allergies; calculation of the nutritive value of specific diets; preparation of foods for diet in disease; tray service. Reports, readings and assignments.

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

Prerequisite: Home Economics 31x.

47x. **Nutrition:** Seminars and reports on recent findings in nutrition.

1 hour a week: 1 credit.

Prerequisite: Home Economics 31x.

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

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

Prerequisite: Home Economics 32x.

DEPARTMENT OF JOURNALISM

University College

GEORGE WILLIAM MCCRACKEN, B.A.,	Professor
R. J. CHURCHILL,	Lecturer
J. K. ELLIOTT, B.A.,	Lecturer
A. R. FORD, B.A.,	Lecturer
J. F. MCMILLAN, B.A.,	Lecturer
J. J. TALMAN, Ph.D.,	Lecturer

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

30. **Newspaper Production:** First term: news gathering and writing, reporting assignments and copy critiques, news room organization, introduction to copy editing; second term: reporting continued, copy editing, copy desk practice, typography and make-up, introduction to news feature and departmental writing, elementary picture editing, organization of the newspaper as a whole.

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

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

2 hours a week: 2 credits.

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

1 hour a week: ½ credit.

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

3 hours a week: 1½ credits.

40. **Newspaper Production:** First term: advanced reporting, copy editing, make-up and news room practice; second term: page preparation carried to the printed stage; detailed critiques of pages; lectures and group discussions on problems of reporting, editing and editorial department production, and the special characteristics and requirements of weekly, provincial-daily, metropolitan-daily and week-end newspapers.

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

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

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

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

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

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

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

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

3 hours a week: 1½ credits.

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

DEPARTMENT OF LIBRARY SCIENCE

University College

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

Assumption College

L. B. LOUGHLIN, B.A.,	Instructor
REV. F. DeS. FLOOD, B.A., B.L.S.,	Instructor
SISTER ALOYSIUS MARY, M.A.,	Instructor
JOSEPH EVANS, B.A.,	Instructor

St. Peter's College

REV. A. J. DURAND, M.A.,	Lecturer

Ursuline College

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

Waterloo College

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

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

1 hour a week: ½ credit.

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

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.

DEPARTMENT OF LAW

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

500. **Domestic Relations:** Eversley, substituting the Canadian Statutes for the English Statutes in the text-book. The parts to be read are: Parts I, II. and IV, to page 811; Part V, 875-9 inclusive, 884-94 inclusive and 919-34 inclusive.

Text-books: Eversley, *Domestic Relations, 1937.*
C. E. D. (Ontario) Vol. 5, pp. 588-693, and pp. 755-830, and supplements.

Statutes: *Infants' Act, R. S. O. 1937,* c. 215.
Children's Maintenance Act, 1937, c. 213.
Children of Unmarried Parents Act, R. S. O. 1937, c. 217.
Children's Protection Act, R. S. O. 1937, c. 312.
Legitimation Act, R. S. O. 1937, c. 216.
Dependents' Relief Act, 1937, R. S. O., c. 214.
Marriage Act, R. S. O. 1937, c. 207.
Married Women's Property Act, R. S. O. 1937, c. 209.
Deserted Wives and Children's Maintenance Act, R. S. O. 1937, c. 211.
Matrimonial Causes Act, 1937, c. 208, including amendments thereto.

501. **Corporations:** The following of the text named below: Part I, ch. 1 to 4, inclusive; Part II, ch. 1 to 5, inclusive; Part III, ch. 2 to 3, page 198, ch. 4 to 13, inclusive; Part IV, ch. 1 and 2, sections 3 and 4; Part V, ch. 1 to 6, inclusive; Part VI, ch. 1 to 6, inclusive.

Text-book: Masten and Fraser, *Company Law of Canada.*
In addition to the statutes dealt with in the Text, the following should be read:
The Companies Information Act, 1937, c. 253.
The Securities Act, 1937, c. 265.

502. **Medical Jurisprudence:** The following portions will be read from the text named below: Volume I, sections 1, 2, 4, 5, 6, 10, 11, 13; Volume II, sections 1-13, inclusive, 15.

Text-book: Taylor, *Medical Jurisprudence* (ed. Smith, 7th edition, 1920).

503. **Theory of Obligation:** Institutes of Justinian.

Book I: Titles 1, 2, 3.

Book III: Titles 13-29 inclusive.

Book IV: Title 1.

504. **Thesis:** See page 46.

DEPARTMENT OF MATHEMATICS AND ASTRONOMY

University College

H. R. KINGSTON, Ph.D., F.R.A.S.,	Professor
ARTHUR WOODS, M.A.,	Professor
G. R. MAGEE, M.S., Ph.D.,	Associate Professor
RANDAL H. COLE, Ph.D.,	Assistant Professor

Assumption College

REV. J. P. RUTH, M.A.,	Professor
REV. W. F. NIGH, M.A.,	Assistant Professor
MARK LAFRAMBOISE, M.A.,	Instructor
SISTER M. VERONICA, B.A.,	Instructor
O. ROLFSON, M.A.Sc.,	Lecturer

Ursuline College

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

Waterloo College

MARION AXFORD, B.A.,	Lecturer

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

3 hours a week: 1½ credits.

Prerequisite: Grade XII (Middle School) Mathematics.

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

12b. **Analytic Geometry:** The point, straight line, circle, parabola, ellipse, with an introduction to the hyperbola; application to curve of flight and to reflectors.

3 hours a week: 1½ credits.

Prerequisite: Grade XII (Middle School) Mathematics and Grade XIII Algebra or Mathematics 10a.

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

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

3 hours a week: 1½ credits.

Prerequisite: Grade XII (Middle School) Mathematics.

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

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

1 credit.

21a. **Mathematics for General Science:** Approximate numbers—significant digits, standard form of writing a number, "rounding off", rela-

tive error, contracted methods of multiplying and dividing; common logarithms, use of slide rule; the function concept and graphing—linear functions of a single variable, power functions, the limit "e," exponential functions, logarithmic functions, use of semi-logarithmic and logarithmic graph paper; rate of change of a function of a single variable, applications of the derivative.

1 hour a week: 1 credit.

Prerequisite: Admission to General Science Course.

23T. **Business Arithmetic:** Mainly applications. Summer School only.

5 hours a week: 1 credit.

24. **Calculus:** Elements and practical applications.

4 hours a week: 4 credits.

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

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

29a. **Descriptive Astronomy:** A survey course: 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. The lectures will be illustrated with lantern slides and models. This course is not mathematical.

2 hours a week: 1 credit.

Text-books: Skilling and Richardson, *Astronomy* (Holt).
Kingston, *An Easy Pocket Star-Guide for Beginners.*

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

2 hours a week: 1 credit.

Honors Courses

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

2 hours a week: 2 credits.

Prerequisite: Mathematics of Junior Group 1 (page 61).

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

252a. **Plane Analytic Geometry:** Definition of a conic by the focus-directrix property; standard form of the equation of parabola, ellipse, and hyperbola; reduction of quadratic equations to standard forms by means of transformation of coordinates; necessary and sufficient condition that a general quadratic equation represent a proper conic; classification of conics represented by general quadratic equations; diameters, conjugate diameters, and principal axes; determination of asymptotes without reduc-

tion to standard form; locus of point of intersection of two perpendicular tangent lines; confocal conics; family of conics through four points; necessary and sufficient condition that six points lie on a conic—Pascal's theorem.

2 hours a week: 1 credit.

Prerequisite: Mathematics of Junior Group 1 (page 61).

254. **Calculus:** Successive differentiation; maxima and minima of f(x); points of inflection; curve tracing; differentials; rates; change of dependent and independent variables; curvature; envelopes; evolutes; involutes; Mean Value theorem; indeterminate forms; partial differentiation; convergency of series; Taylor's and Maclaurin's series applied to expansion of functions; asymptotes; singular points; integration as inverse of differentiation and as the limit of summation; methods of integration; reduction formulae; applications.

3 hours a week: 3 credits.

Prerequisite: Mathematics of Junior Group 1 (page 61).

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

262b. **Analytic Solid Geometry:**

3 hours a week: 1½ credits.

Prerequisite: Mathematics of Junior Group 1 (page 61).

Text-book: Snyder and Sisam, *Geometry of Space* (Holt).

351a. **Synthetic Plane Geometry:** Geometry of the triangle and circle, forming a natural sequel to the classical plane geometry of the secondary schools. The course consists of a study of homothetic polygons and circles; similar figures in general; circle of similitude; coaxal systems of circles; circular inversion; Ptolemy's theorem; triangle and quadrangle theorems; Casey's power theorem; circles of antisimilitude; poles and polars; the polar circle; the Miquel theorem; pedal triangles and circles; the Simson line; theorems of Ceva and Menelaus, with applications; the nine-point circle; the Euler line.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250-262b.

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

354. **Differential Equations:** First term: differential equations of first order; singular solutions; applications; linear equations with constant coefficients; linear equations with variable coefficients; second term: exact differential equations; integration in series; equations of second order; equations with more than two variables; partial differential equations.

2 hours a week: 2 credits.

Prerequisites: Mathematics 250-262b.

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

355a. **Probability and Statistics:**

2 hours a week: 1 credit.

Prerequisites: Mathematics 250-262b.

Text-books: Hall and Knight, *Higher Algebra* (Macmillan).
Freeman, *Mathematics for Actuarial Students, Vol. II* (Cambridge).
Richardson, *An Introduction to Statistical Analysis* (Harcourt, Brace).

355b. **Advanced Statistics:** An extension of Mathematics 355a with special attention to methods of graduation. Available only to students taking the actuarial option.

2 hours a week: 1 credit.

Prerequisites: Mathematics 355a.

359a. **Descriptive Astronomy:** Topics of Mathematics 29a, treated more intensively.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250-262b.

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

362b. **Metric Differential Geometry of Curves and Surfaces:** The fundamentals of differential geometry of curves in three-dimensional space; curves and surfaces associated with a space curve; an introduction to differential geometry of general surfaces.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250-262b.

Text-book: Lane, *Metric Differential Geometry of Curves and Surfaces* (Chicago University Press).

364. **Advanced Calculus:** Fundamental definitions and theorems, tests for convergence of sequences and series, integration and differentiation of series, hyperbolic functions, partial differentiation of simple and composite functions, Taylor's series, directional derivative, gradient, differentiation of definite integrals, improper integrals, line integration, Green's theorem in two and three dimensions, Stoke's theorem, Jacobians, implicit functions, functional dependence, change of variable in multiple integration, Gamma and Beta functions, introduction to calculus of variations, applications to geometry and physics.

2 hours a week: 2 credits.

Prerequisites: Mathematics 250-262b.

References: Woods, *Advanced Calculus* (Ginn).
Franklin, *Treatise on Advanced Calculus* (Wiley).

368b. **Mathematics for Navigation:** Spherical trigonometry; maps and chart projections; theory of astronomical navigation.

2 hours a week: 1 credit.

Prerequisites: Mathematics 359a.

Text-book: To be determined.

450b. **Higher Algebra:** Theory of numbers, introduction to group theory, algebraic fields, vector spaces, and matrix algebra.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250-262b.

References: MacDuffee, *Introduction to Abstract Algebra* (Wiley).
Birkhoff, MacLane, *A Survey of Modern Algebra* (Macmillan).
Bôcher, *Introduction to Higher Algebra* (Macmillan).

452a. **Plane Analytic Projective Geometry:**

3 hours a week: 1½ credits.

Prerequisites: Mathematics 250-262b.

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

453b. **Finite Differences:** Fundamental difference forms; factorial expansions; interpolation formulae; divided differences; central differences; statistical applications; mechanical quadratures; integration; Euler-Maclaurin's, Woolhouse's and Lubbock's Formulae.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250-262b.

Text-book: Freeman, *Mathematics for Actuarial Students, Vol. II* (Cambridge).

456a. **Theory of Functions of a Real Variable:**

3 hours a week: 1½ credits.

Prerequisites: Mathematics 250-262b.

457. **History of Mathematics:**

1 hour a week: 1 credit.

References: Cajori, *A History of Mathematics* (Macmillan).
Dantzig, *Number, the Language of Science* (Macmillan).
Bell, *Men of Mathematics* (Simon and Schuster).
Bell, *The Development of Mathematics* (McGraw-Hill).

462b. **Higher Plane Curves:** Fundamentals of higher plane curves; multiple points; poles and polars; Joachimsthal's method of investigating multiple points; class of a curve; the effect of a multiple point on the class of a curve; tangential equation of a curve; inflection points; properties of the Hessian curve; inverse curves; pedal curves; reciprocal polar curves.

2 hours a week: 1 credit.

Prerequisites: Mathematics 250-262b.

References: Ganguli, *The Theory of Plane Curves, Vol. I* (University of Calcutta Press).
Salmon, *Higher Plane Curves.*
Williamson, *Differential Calculus* (Appleton).

463a. **Mathematics of Investment and Life Insurance:** Interest, discount, annuities-certain, bonds, capitalized cost, the mortality table, life annuities, life insurance premiums, policy reserves.

3 hours a week: 1½ credits.

Prerequisites: Mathematics 250-262b.

Text-book: Menge and Glover, *An Introduction to the Mathematics of Life Insurance* (Macmillan).
Reference: Rietz, Crathorne and Rietz, *Mathematics of Finance* (Holt).

466b. **Theory of Functions of a Complex Variable.**

3 hours a week: 1½ credits.

Prerequisites: Mathematics 250-262b.

Reference: Townsend, *Functions of a Complex Variable* (Holt).

473b. **Actuarial Science:** An extension of Mathematics 463a. Available only to those taking the actuarial option.

2 hours a week: 1 credit.

Prerequisite: Mathematics 463a.

Text-book: Spurgeon, *Life Contingencies* (Macmillan).

Courses Leading to the Degree of M.A.

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

550. **Theory of Numbers.**
551. **Synthetic Projective Geometry.**
553. **Advanced Actuarial Science.**
554. **Elliptic Integrals.**
559. **Celestial Mechanics.**
560. **Theory of Invariants.**
563. **Insurance Problems.**
564. **Projective Differential Geometry.**
576. **Theory of Algebraic Functions.**

DEPARTMENT OF MUSIC

HARVEY ROBB, Director
MAX PIRANI, Hon. R.A.M., Honorary Professor

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

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

Music 10 and 20 are divided into three parts: history and form, theory, and applied music. The student is allowed to choose two of the three parts. This does not apply to Music 20T.

Lectures in history and form and in elementary harmony will be provided as part of the University course, but in advanced theory and applied music where individual instruction is essential each student will be responsible for his or her necessary extra fee. The University will do what it can towards providing practice facilities, but the responsibility is primarily upon the student.

10. **First Course:**

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

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

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

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

20. **Second Course:**

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

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

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

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

Prerequisite: Music 10 or equivalent.

20T. **Vocal or Instrumental** (orchestra). Summer School only.

11 hours a week: 1½ credits.

30T. Continuation of Music 20T, which is a prerequisite. Summer School only.

11 hours a week: 1½ credits.

DEPARTMENT OF PHILOSOPHY AND PSYCHOLOGY

University College

ROY B. LIDDY, Ph.D., LL.D.,	Professor
A. H. JOHNSON, Ph.D.,	Associate Professor
LEOLA E. NEAL, Ph.D.,	Assistant Professor
GORDON H. TURNER, Ph.D.,	Assistant Professor
MARY J. WRIGHT, M.A.,	Assistant Professor
W. R. FRASER, M.A.,	Instructor
K. G. FERGUSON, B.A.,	Lecturer
C. E. JOHNSON, B.A.,	Lecturer
ANN SCOTT, B.A.,	Demonstrator

Assumption College

REV. E. C. GARVEY, Ph.D.,	Professor
D. BARATH, Ph.D.,	Professor
PATRICK FLOOD, M.A.,	Associate Professor
REV. P. J. M. SWAN, Ph.D.,	Associate Professor

St. Peter's College and Ursuline College

REV. J. H. POCOCK, B.A.,	Professor
REV. T. W. FLANNERY, S.T.D.,	Associate Professor
REV. L. A. WEMPLE, B.A., L.Ph.,	Associate Professor
REV. J. A. COOK, M.A.,	Instructor
REV. L. J. FLYNN, S.T.D., S.S.L.,	Instructor
REV. C. J. GIRARD, M.A., Ph.L.,	Instructor

Waterloo College

*W. G. SCOTT, B.A.,	Assistant Professor
M. RUTH LAZENBY, B.A.,	Instructor

Huron College

REV. CANON K. E. TAYLOR, M.A., B.D., O.B.E.,	Professor

Philosophy

30. **Introduction to Philosophy:** The chief problems of philosophy and the important developments in its history. Emphasis will be placed upon the following topics: the relation of philosophy to the special sciences; theories of knowledge; theories of reality; the philosophy of evolution; the world of values. Outstanding philosophers and tendencies in the history of philosophy will be briefly considered. Offered in University and Waterloo Colleges.

3 hours a week: 3 credits.

30x. **Introduction to Philosophy:** The general problems and divisions of philosophy; Greek Philosophy from Thales to Plotinus, with special

* On leave, 1946-7

reference to Socrates, Plato and Aristotle; lectures, readings and essays. Offered in Ursuline and St. Peter's Colleges.

3 hours a week: 3 credits.

31a. **Methods and Principles of Thinking:** An analysis of reflective thinking as it is employed in the solving of practical and theoretical problems; alternatives to reflective thinking; the structure of logical argument; fallacies in argument; scientific methods of discovery and verification. Offered in University and Waterloo Colleges.

2 hours a week: 1 credit.

32. **The Nature of Philosophy** and its relation to the special sciences; an analysis of thinking, fallacies in reasoning.

2 hours a week: 2 credits.

33x. **Christian Ethics:** The ethics of the New Testament; the development of ethical thought during the Christian era; Christian ethical standards of today as they affect the individual and society. Offered in Huron College.

2 hours a week, one term: 1 credit.

33x. **Social Ethics:** Introduction to basic ethical teachings; fundamental sociological facts and concepts in a moral setting; the social problems confronting modern man. Offered in Ursuline College.

2 hours a week: 2 credits.

Text-books: Murray, *Social Ethics.*
Ross, *A Survey of Sociology.*

34b. **The Philosophy of Democracy:** The meaning of democracy; ways in which it can be achieved; arguments for and against democracy.

2 hours a week: 1 credit.

37. **Greek Philosophy:** A critical study of the contributions made to western culture by Plato, Aristotle, the Stoics and the Epicureans. This course provides an introduction to Greek theories of Politics, Art, the Good Life, Science. Ancient discussion of "modern" problems will be emphasized. Relevant source material will be used.

2 hours a week: 2 credits.

37x. **History of Ancient and Mediaeval Philosophy:** The history of (1) Greek, Roman and Patristic periods, (2) Mediaeval Philosophy and Scholasticism. Offered in Ursuline College.

2 hours a week: 2 credits.

42. **Ethics:** A critical discussion of ethical standards in their applications to problems of private and social morality. Offered in University and Waterloo Colleges.

2 hours a week: 2 credits.

43b. **Philosophy of Religion:** The nature, method and value of religion; the relation between religion and science, and between religion and philosophy; the concepts of God, prayer, evil, freedom, immortality; important types of religious philosophy.

2 hours a week: 1 credit.

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

2 hours a week: 2 credits.

47x. **History of Modern Philosophy:** The transition from Mediaeval to Modern Philosophy; Modern Philosophy. Offered in Ursuline College.

2 hours a week: 2 credits.

Offered in Assumption College only.

13x. **Rational Foundations of Religion:** Philosophy of religion; religious and scientific belief; theism and atheism; nature of man; moral responsibility and end.

2 hours a week: 2 credits.

30x. **Introduction to Philosophy:** Problems, division and method of philosophy; the relation of philosophy to the special sciences and theology; 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, reasoning; idea and term; proposition; definition; division; categories and predicables; deductive reasoning; rules, modes and figures of syllogism; fallacies in argument; inductive reasoning: observation, experiment, description, analysis, synthesis, statistical procedure, verification; a brief introduction to the history of logic.

2 hours a week: 2 credits.

34xb. **The Philosophy of Democracy:** The meaning of democracy; ways in which it can be achieved; arguments for and against democracy.

2 hours a week: 1 credit.

37x. **History of Greek Philosophy:** A study of the contributions made to philosophy by the Pre-Socratic thinkers, Socrates, Plato, Aristotle, the Stoics, the Epicureans, the Alexandrian School and Plotinus.

2 hours a week: 2 credits.

40x. **Philosophical Ideas in Modern English Literature:** A critical discussion of some of the important philosophical ideas which are found in or have influenced English prose and poetry.

2 hours a week: 2 credits.

41xa. **Metaphysics:** Being; the transcendental attributes of being; analogy; essence and existence; act and potency; necessity and contingency; the principles of causality and sufficient reason.

3 hours a week: 1½ credits.

41xb. **Natural Theology:** God's existence; the divine attributes; conservation and providence; the idea of God in the history of philosophy.

3 hours a week: 1½ credits.

42xa. **Ethics:** Man's ultimate goal; the moral character of human acts; eternal, natural and positive law; right reason; conscience; habits, virtues and vices; general notions of right and duty.

3 hours a week: 1½ credits.

42xb. **Social Philosophy:** The nature and function of society; the common good; justice, friendship and freedom; authority, government, constitution and legislation; the person, family, private organizations and the state.

3 hours a week: 1½ credits.

43xa. **Epistemology:** Pre-scientific and scientific knowledge; the sensible and intelligible value of experience; the degrees of abstraction; the nature and function of concepts; the metaphysical foundation of judgment; truth, opinion and belief; a brief review of the most important tendencies in the theories of knowledge.

3 hours a week: 1½ credits.

43xb. **Philosophy and Special Sciences:** The rise of the special sciences and their reaction on philosophical speculation; the gradual evolution of scientific hypothesis (law and theory); mathematization in the special sciences; the object matter and hierarchy of the special sciences. Required reading: selections from the works of the founders of the special sciences.

3 hours a week: 1½ credits.

44xa. **Theories of World Society:** A historical and philosophical study of suggested principles for a world society; the theories of the Jews, Alexander the Great, the Stoics (especially Seneca, Marcus Aurelius), St. Augustine, Orosius, Charlemagne, Otto von Freisung, Hugh of St. Victor, John of Salisbury, Roger Bacon, Dante, Aegidius Romanus, Marsiglio of

Padua, Jean Jeandan, Nicolaus Cuzanus, Campanella, Leibnitz, the Liberal economists, Comte, Marx; contemporary tenets; an integral view of world society.

2 hours a week: 1 credit.

44xb. **Humanism and the Renaissance:** A historical and philosophical study of the humanist ideas inherited by the Renaissance; the humanism of Cicero, Quintilian, St. Augustine, poets, historians, scholars, educators, philosophers, and theologians of the early Middle Ages; Hrodzwita, Gerbert of Auriac, Fulbert of Chartres,Bernard and Thierry of Chartres, Rupert of Doetz, Hugh of St. Victor, Bernardus Sylvestria, Alanus de Insulius Hildebert, Otto von Freisung, Adam of St. Victor, Alexander of Neckam, John of Salisbury, Henri D'Aille, Johannes de Garlandia, Roger Bacon, Vincent of Beauvais, Jean Gerson, Nicola de Clemange, Fiche, Guillaume, Baude, Gerard Grote, Thomas à Kempis, Erasmus, Petrarch, Salutati, Poggio, Lorenzo Valla, Chrysolarus, Ficino, integral humanism.

2 hours a week: 1 credit.

45xa. **The History of Political Philosophy:** Ancient, mediaeval and modern political thought.

3 hours a week: 1½ credits.

45xb. **Contemporary Political Philosophy:** Political philosophy after Hegel; fundamental assumptions underlying present day political movements.

3 hours a week: 1½ credits.

46xa. **Aesthetics:** The beautiful and the fine arts; aesthetic enjoyment; natural talent, education and rules in art; imitation, thesis and emotion; the ingenuousness of the work of art and the human end, of the artists; the material conditions and the spiritual value of arts; arts prudence and wisdom; Christian art; a brief review of the history of aesthetic theories. Prescribed reading in the history of the fine arts.

2 hours a week: 1 credit.

46xb. **Contemporary Philosophy:** Neo-idealism; pragmatism; positivism; neo-realism; neo-scholasticism. Lectures, reports and discussions.

2 hours a week: 1 credit.

47x. **History of Modern Philosophy:** The breakdown of Mediaeval philosophy; the philosophy of the Renaissance; Cartesian mathematicism, spiritualism and idealism; British empiricism and psychologism; German idealism; utilitarianism; relativism, evolutionism.

2 hours a week: 2 credits.

48x. **History of Mediaeval Philosophy:** Early Christian philosophy; Patristic thought; Arabian and Jewish philosophy; exaggerated realism,

nominalism, conceptualism; Scholastic philosophy; Augustinism, Latin Averroism, Mediaeval Neo-Platonism and sensism.

2 hours a week: 2 credits.

49xa. **The Concept of Nature:** The hylomorphic theory of change; matter and form as nature; natural and forced motions; nature and art; the order and attributes of nature.

2 hours a week: 1 credit.

Honors Courses

Offered in University College only.

The following courses are identical with the pass courses indicated (for description see pp. 151-3) except that additional assignments will be required: 230 (30), 231a (31a), 334b (34b), 337 (37), 347 (47), 442 (42), 443b (43b).

350. **Philosophical Texts:** An examination of specified source material in Greek and Modern philosophy. Critical works will also be studied.

2 lectures, 1 seminar hour a week: 3 credits.

450. **Principles and Problems of Philosophy:** Philosophical problems related to the special interests of the members of the class will be discussed.

1 hour a week: 1 credit.

451. **Seminar in Greek Philosophy:**

2 hours a week: 2 credits.

452. **Seminar in Modern Philosophy:**

2 hours a week: 2 credits.

458. **Contemporary Philosophy:** A critical study of contemporary tendencies in Logic, Epistemology, Theory of Value and Metaphysics.

2 lectures and 1 seminar hour a week: 3 credits.

Courses Leading to the Degree of M.A.

550. **Problems in Contemporary Philosophy.**

551. **Thesis Research.**

Offered in Assumption College only.

The following courses are identical with the general courses indicated except that additional assignments will be required: See pp. 153-6. 230x (30x), 231x (31x), 234xb (34xb), 237x (37x), 340x (40x), 341xa (41xa), 342xa (42xa), 342xb (42xb), 343xa (43xa), 343xb (43xb), 444xa, (44xa), 444xb (44xb), 445xa (45xa), 445xb (45xb), 446xa (46xa), 447x (47x), 448x (48x), 449ax (49ax).

250x. **Seminar in Greek Philosophy.**

350x. **Seminar in Mediaeval Philosophy.**

450x. **Seminar in Modern Philosophy.**

451a. **Problems in Social Philosophy.** 3 credits.
452x. **Thomistic Principles.** 3 credits.
453x. **Problems in Greek Thought.** 3 credits.
454x. **Thomist Revival.** 3 credits.
456x. **Philosophy of Education.** 2 credits.

Offered in St. Peter's Seminary College of Arts only.

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.

Text-book: Barbedette and Farges, *Philosophia Scholastica*, Vol. I.

251x. **Formal Logic:** The three operations of the intellect. Conception: the idea; the term, categories and predicables; definition and division. Judgment: assertion and negation; the proposition; the conversion of propositions. Reasoning: deduction and induction; the rules, modes, and figures of syllogisms; fallacies.

2 hours a week: 2 credits.

Text-book: Barbedette and Farges, *Philosophia Scholastica*, Vol. I.

257x. **The History of Pre-Christian Philosophy:** Philosophy in the Orient before Christ: philosophy in the west from its birth among the Ionians to its perfection in Plato and in Aristotle and then its decline; Graeco-Oriental philosophy at the time of Christ.

2 hours a week: 2 credits.

Text-book: Turner, *History of Philosophy.*

260x. **Introduction to Philosophy: Cosmology:** The meaning of philosophy; the main divisions of philosophy; a survey of certain facts and various theories of Physics and of Chemistry; a preliminary consideration of the properties of material things; the intrinsic constitution of material substances; a critical refutation of Mechanism and of Dynamism as cosmological theories; the philosophy of quantity, quality, movement, time, space, and body; the relation of Cosmology to Physics and to Chemistry.

2 hours a week: 2 credits.

Text-book: Barbedette and Farges, *Philosophia Scholasitca*, Vol. I.

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 uni-

versal properties of being: substantial and accidental being; being in its causes and in its effects; the first principles and the analogy of being.

3 hours a week: 3 credits.

Text-book: Barbedette and Farges, *Philosophia Scholastica*, Vol. II.

352x. **Ethics:** (a) General: the last end of man; its nature and attainment, morality of human acts; the norm of morality; law, eternal, natural and positive, in relation to morality; right reason; conscience; influence of passions on moral acts; habits; virtues; notions of right and duty; (b) Individual: special rights and duties.

3 hours a week: 3 credits.

Text-book: Barbedette and Farges, *Philosophia Scholastica*, Vol. II.

357x. **History of Philosophy from the Time of Christ to the Renaissance:** Philosophy during the early ages of Christianity: Greek writers: St. Justin, Athenagoras, St. Clement, Origen; Latin writers: Tertullian, Lactantius, St. Augustine, Boethius. Philosophy during the Middle Ages: Arabian writers: Avicenna, Averrhoes; Jewish writers: Avicebron, Moses Maimonides; Scholastic writers: St. Anselm, St. Bonaventure, St. Albert, St. Thomas, Duns Scotus, William of Occam.

3 hours a week: 3 credits.

Text-books: Turner, *History of Philosophy.*
St. Thomas, *De Regimine Principum.*

358x. **Social Philosophy:** Historical development of social economy to 19th century liberalism; industrial revolution, capitalism, individualism, collectivism; authoritarian and corporative state: origin and forms of civil organization and administration; social functioning of modern economic society; individual and social character of proprietorship, capital and labor; the business cycle: population, vital statistics; international trade, world peace and progress, the common good.

2 hours a week: 2 credits.

Text-book: Cronin, *Economics and Society.*

450x. **Psychology: The Nature of Man:** Man's soul and its essential qualities; the union of soul and body in man; personality; the origin and the immortality of the human soul.

2 hours a week: 2 credits.

Text-book: Barbedette and Farges, *Philosophia Scholastica*, Vol. I.

451x. **Metaphysics: God, The Supreme Being:** The existence of God and the absurdity of atheism; the divine attributes of God and modern agnosticism; the relations of God to the world; creation, conservation, providence; the refutation of pantheism.

3 hours a week: 3 credits.

Text-book: Barbedette and Farges, *Philosophia Scholastica*, Vol. II.

452x. **Special Ethics:** Social: man and society: duties to neighbor, in charity, in justice; domestic society; conjugal, parental, filial rights and duties; education; "Occupational estate"; nature and structure; cap-

ital and labor, strikes, lock-outs, just wage, fair price, competitive economy, money, credit, banking, investment, production, exchange, consumption, agricultural-industrial relations; civil society; the state, its powers and functions; public utilities, government ownership, economic planning, taxation, citizenship, patriotism, war.

3 hours a week: 3 credits.

Text-books: Barbedette and Farges, *Philosophia Scholastica*, Vol. II.
Papal Encyclicals.

457x. **History of Philosophy from the Renaissance to the Present Day:** Philosophy during the Renaissance: the revival of Platonism, of Humanism, of Scholasticism. Philosophy during the 17th and 18th centuries: the rise of Empiricism, of Idealism, of German Transcendentalism. Philosophy during the 19th and 20th centuries: the rise of Evolution, of Positivism, of Rationalism, of Pragmatism, of Communism; the revival of Thomistic Scholasticism.

3 hours a week: 3 credits.

Text-book: Turner, *History of Philosophy.*

Psychology

In University College, Psychology 20 or 30 is prerequisite to all other courses in psychology.

For courses offered by Assumption College (see pp. 161-2).

20. **Introduction to Psychology:** Contemporary psychological methods and tendencies; intelligence and intelligence testing; memory and the learning process; motivation; feeling and emotion; sensation and perception; types of thinking; imagination processes; the integration and disintegration of personality; the unconscious; a brief introduction to social, abnormal and applied psychology. Lectures, prescribed reading and essays.

3 hours a week: 3 credits.

20aN. **General Psychology:** A survey of the important phases of psychology; for students registered in the course for nurses.

3 hours a week; 1½ credits.

30. **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 31a.

3 hours a week: 3 credits.

35. **Experimental Psychology I:** An elementary course designed to introduce the student to standard laboratory techniques in psychology; emphasis will be placed upon those processes which relate to practical situations such as learning, aesthetic judgment, motor aptitudes: a brief introduction to statistics, measures of central tendency, standard deviation, correlation.

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

35S. The same as Psychology 35, but condensed to 1½ credits.

36. **Genetic Psychology:** Native equipment; sensory, motor, perceptual, emotional, intellectual and language development prior to school age; problems of habit training; parent-child relationship. Some emphasis will be placed upon relevant physiological processes.

2 hours a week: 2 credits.

37. **Theory and Construction of Mental Tests:** Discussion of basic considerations in mental measurement; description and evaluation of typical measuring instruments and their uses; detailed study of tests of early childhood, achievement, intelligence, motor abilities, artistic abilities, interests and attitudes; consideration of persistent problems in the field of mental measurement.

2 hours a week: 2 credits.

38. **Experimental Psychology II:** A laboratory study of such processes as sensation, perception, reaction times, emotions and the higher thought processes.

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

39. **Clinical Problems in Mental Hygiene:** The clinical approach to mental hygiene; the development of Mental Health Clinics; mental testing; behavior problems; factors promoting mental health. Field practice: observation, mental testing, case studies.

2 hours a week: 2 credits.

43a. **Psychology of Religion:** The structure, genesis, and growth of religious experience; conscious and unconscious elements; types of conversion; the psychological aspects of worship and of religious belief.

2 hours a week: 1 credit.

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

2 hours a week: 2 credits.

46. **Applied Psychology:** The applications of psychology to the problems of education; the learning process; behavior problems in the school situation; student placement and progress; achievement tests; curricular problems; deviations in educational development; appraisal of teaching efficiency. Personnel work; vocational selection and guidance; training of workers; labor relations; advertising; salesmanship. Application of psychology to medicine, law, the ministry, politics, aesthetics. General problems of human adjustment.

2 hours a week: 2 credits.

48. **Abnormal Psychology:** A consideration of abnormal activities in sensation, perception, memory, emotion, thought and behavior; a discussion of mental deficiency; an examination from the point of view of psychology of the causes and symptoms of the psychoneurotic disorders; emphasis on psychotherapeutic technique; some reference to major mental disorders. Among the topics considered will be spiritism, telepathy, hypnosis and psychoanalysis.

2 hours a week: 2 credits.

49. **Social Psychology:** The activities of living beings in response to their social environment. The social setting and psychological foundations of social behavior; 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.

Offered by Assumption College only.

20x. **Introduction to Psychology:** Problems, division and methods of psychology; relations and elements of experimental and rational, theoretical and applied, individual and social psychologies; the field of abnormal psychology; a brief survey of the main ideas in the history of psychology.

Lectures, prescribed reading and essays.

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; elements of statistical procedure; laboratory study of processes relating to motor aptitudes, aesthetic judgment and learning.

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

36x. **Genetic and Educational Psychology:** The unfolding of men's faculties; the development and function of habits; motor, sensory, perceptual, emotional, intellectual and moral development; the characteristics of infancy, childhood, adolescence and adulthood; the growth of personality; general tendencies and individual differences, persistent problems of education; a brief critical survey of the leading modern systems of education.

2 hours a week: 2 credits.

37xa. **Theory and Construction of Mental Tests:** Discussion of basic considerations in mental measurement; description and evaluation of

typical measuring instruments and their uses; detailed study of tests of early childhood, achievements, intelligence, motor tests and appraisals of artistic ability, interests and aptitudes; consideration of persistent problems in the field of mental measurement.

3 hours a week: 1½ credits.

A number of laboratory hours will also be arranged.

37xb. **Statistical Methods in Psychology:** Review of elementary techniques such as graphing and tabulation; measures of central tendency, variability and relationship of variables; application of the normal curve to psychological data; reliability of measures; statistical prediction.

3 hours a week: 1½ credits.

38x. **Advanced Experimental Psychology:** A laboratory study of such processes as sensation, perception, reaction times, emotional and thought processes.

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

44x. **History of Psychology:** An estimation of the contribution of ancient, mediaeval and early modern philosophers to psychology; a critical examination of some important modern systems of psychology; Introspectionism, Functionalism, Behaviorism, Purposivism, Gestalt Psychology, Psychoanalysis.

2 hours a week: 2 credits.

46x. **Applied Psychology:** The applications of psychology to the problems of education; the learning process; behavior problems in the school; student placement and progress; achievement tests; curricular problems; deviations in educational development; appraisal of teaching efficiency; Personnel work; vocational selection and guidance; training of workers; labor relations; advertising; salesmanship. Application of psychology to medicine, law, religious education, politics, aesthetics. General problems in human adjustment.

2 hours a week: 2 credits.

49xb. **Social Psychology:** The social activities of living beings in response to their social environment; the social, cultural setting and psychological foundations of social behavior; the conditioning of personality by the family and other groups; types of prejudice; leadership and prestige; the mob; mental epidemics; propaganda; public opinion.

3 hours a week: 1½ credits.

Special lectures may, on request, be provided in mental hygiene, abnormal psychology and industrial psychology relating to the personnel problems of leading local industries.

Honors Courses

Offered in University College only.

The following honors courses are identical with the pass courses indicated (for description see pages 159-61) except that additional assignments will be required: 235 (35), 236 (36), 337 (37), 338 (38), 339 (39), 443a (43a), 444 (44), 446 (46), 448 (48), 449 (49).

355. **Statistics:** A study of measurements, frequency distributions, measures of central tendency and variability, norms, the normal curve and its applications, the reliability and significance of statistics, prediction and errors in prediction, correlation methods, the reliability and validity of tests.

2 hours a week: 2 credits.

455. **Introduction to Research:** A seminar advanced course in which each student will select some topic for special investigation.

4 laboratory hours a week: 2 credits.

Courses Leading to the Degree of M.A.

550. **Theories of Mental Activity.**
552. **Advanced Genetic Psychology.**
555. **Research Problems in Experimental Psychology.**
556. **Problems in Industrial Psychology.**
558. **Advanced Abnormal Psychology.**
559. **Advanced Clinical Methods.**

DEPARTMENT OF PHYSICAL EDUCATION

University College

J. HOWARD CROCKER, M.P.E.,	Director
*W. A. D. DEWAR, B.A.,	Associate Director
C. V. BOX, B.A.,	Assistant Director
MARY ROSS BARKER, D.P.E.,	Assistant Director (Women)

Alma College

NANCY PARKINSON	Instructor

Assumption College

JOHN SHADA, PH.B.,	Director
STANLEY NANTAIS,	Instructor

Ursuline College

BERYL M. NURSE,	Student Assistant

Waterloo College

VIRGINIA WITTIG, D.P.E.,	Instructor
A. F. CONRAD, B.A.,	Lecturer

* On leave, 1946-7.

COURSES FOR WOMEN

Enrolment in a Physical Education course is prescribed for students in the first and second years. First year students, in addition, are required to attend lectures in health education. Two hours a week, actual participation, is the minimum for students taking physical education for credit in any year.

The fall program is conducted out-of-doors and includes instruction in archery, golf, riding, soccer, tennis, and swimming at the Y. M. C. A. pool. Occasionally hikes, deck tennis, baseball or volleyball are substituted for regular classes.

The winter program offered includes instruction in badminton, basketball, correctives, folk dancing, gymnastics, hockey, swimming, tap dancing. Skating and skiing are extra-curricular activities for which no credit is given nor responsibility taken.

Uniform: A uniform costing approximately $5.00 is required. It is ordered through the University at registration.

10. **General Physical Education:** Prescribed for all women in the first year.

2 hours a week: 1 credit.

20. **General Physical Education:** Prescribed for all women in the second year.

2 hours a week: 1 credit.

Prerequisite: Physical Education 10.

30-40. **Advanced Physical Education:** Optional for women of the third and fourth years.

2 hours a week: each year: 1 credit each year.

Prerequisite: Physical Education 10, 20.

First Aid to the Injured: Open to women in all years.

Evening lectures for seven weeks. Credit given for successful completion.

1 hour a week: ½ credit.

COURSES FOR MEN

A student may elect one from each of the following Autumn and Winter groups, and, if his performance justifies it, he will receive credit for the prescribed or elective work of his year.

Autumn: Rugby, soccer, track, horseback riding, training in the Armed Services. (See p. 165).

Winter: Boxing and wrestling, hockey, basketball, swimming, gymnastics, badminton, first aid, fencing, training in the Armed Services. (See p. 165).

10. **Physical Education:** Required of all men, except veterans, in the first year: one elective autumn activity and one elective winter activity.

2 hours a week: 1 credit.

First Aid to the Injured: A winter option in 10; elementary and advanced courses, seven lectures each, with an examination for Certificate in St. John Ambulance Association.

1 hour a week: ½ credit.

Text-book: *St. John Ambulance Hand Book.*

20. **Physical Education:** Required of all men, except veterans, in the second year: one elective autumn activity and one elective winter activity.

2 hours a week: 1 credit.

30, 40. **Advanced Physical Education:** Optional for men of the third and fourth years; open only to those who have had Physical Education 10 and 20; one elective autumn activity and one elective winter activity.

2 hours a week, each year: 1 credit each year.

Theory of Physical Education: A winter option in 30, 40. History and principles of physical education; organization and administration of a physical department.

1 hour a week: ½ credit.

Training in the Armed Services: Students, Veterans excepted, who are physically fit may, on registration, affiliate themselves with one of the two armed services, that is, (1) with the army through the Canadian Officers Training Corps (C.O.T.C.), (2) with the Royal Canadian Navy through the University Naval Training Division (U.N.T.D.). Students will be enrolled as cadets in the C.O.T.C., and ordinary seamen in the U.N.T.D. Suitable candidates in each service will be selected and trained for commissioned rank.

Physical Education Credit for Veterans: Veterans are exempt from the required Physical Education for the first and second years. One credit each year will be given, however, upon completion of the requirements noted above.

DEPARTMENT OF PHYSICS

University College

R. C. DEARLE, PH.D., F.R.S.C., M.B.E.,	Professor
R. L. ALLEN, M.A.	Professor
G. A. WOONTON, M.A.	Research Professor
ELIZABETH R. LAIRD, PH.D.	Honorary Professor
A. M. I. A. W. DURNFORD, PH.D.,	Associate Professor
A. WILLENA FOSTER, M.A.,	Associate Professor
E. H. TULL, B.A.SC., P.ENG.,	Instructor
P. J. SANDIFORD, B.A.,	Instructor
K. A. FERGUSON, B.A.,	Research Fellow
J. H.MOON, B.A.,	Research Fellow
J. H. BLACKWELL, B.SC.,	Demonstrator
C. CARMICHAEL, B.SC.	Demonstrator
H. M. DUTTON, B.SC.,	Demonstrator
D. R. HAY, B.SC.,	Demonstrator
V. J. PIMENOFF, B.ENG.,	Demonstrator
R. E. STONE, B.SC.	Demonstrator
J. G. TILLOTSON, B.SC.,	Demonstrator
E. VOGAN, B.SC.,	Demonstrator
F. W. PYE,	Instrument Maker
PAULINE FAUST, B.A.,	Executive Secretary

Assumption College

F. A. DEMARCO. M.A.SC.,	Associate Professor
REV. F. S. RUTH, B.A.,	Associate Professor
SISTER M. ISABEL OF CARMEL, B.A.,	Instructor

Waterloo College

W. B. KELLEY, B.A.	Professor

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.

Text-books: Duncan and Starling, *Dynamics.*
Duncan and Starling, *Heat.*
Saunders, *A Survey of Physics.*

11. **Physical Science:** Lectures, demonstrations, laboratory exercises and tutorial groups, designed (1) to present an historical review of

INDEX

			Page
Administrative Council			9
Admission			35
Advanced Standing			36
Appeals			41
Alma College, Officers of			18
Assumption College, Officers of			18
Attendance at Lectures			41
Board of Governors			6
Calendar			4
Calendar, Faculty of Arts and Science			5
Conduct			41
Courses in Applied Biology	Description of		99
" Art	"	"	186
" Botany	"	"	92
" Business Administration	"	"	101
" Business Administration, Intensive Course	"	"	103
" Chemistry	"	"	104
" Classics	"	"	108
" Economic and Political Science	"	"	115
" Educational Counselling	"	"	186
" English	"	"	121
" French	"	"	177
" Geography	"	"	128
" Geology	"	"	125
" German	"	"	129
" Greek	"	"	112
" Handicrafts	"	"	187
" Hebrew	"	"	132
" History	"	"	133
" Home Economics	"	"	137
" Italian	"	"	180
" Journalism	"	"	140
" Latin	"	"	109
" Law	"	"	143
" Library Science	"	"	142
" Mathematics and Astronomy	"	"	144
" Music	"	"	149
" Philosophy	"	"	151
" Physical Education	"	"	163
" Physics	"	"	166
" Psychology	"	"	159
" Public Administration, Intensive Course	"	"	104
" Public Health	"	"	187
" Radio Physics	"	"	166
" Religious Knowledge	"	"	173
" Romance Languages	"	"	177
" Russian	"	"	184
" Secretarial Science	"	"	183
" Spanish	"	"	181

		Page
Course in Teachers' Course	Description of	186
" Theological Options	" "	184
" Zoology	" "	96
Degrees		12
Diplomas		46
Examinations		38
Examinations, Comprehensive		39
Examinations, Failure in		40
Examinations, Special		40
Examinations, Supplemental		39
Extension Department		43
Extramural Course		42
Expenses		59
Fees		41, 58
Grade XII Examinations		35
Grade XIII Examinations		35
High School Assistants' Certificates, ordinary and specialist		44
Holy Names College, Officers of		18
Huron College, Officers of		18
Inspectors' Certificates		43
Insurance, Student Health		11
LL.B. Degree		46
Lectures, Attendance at		41
Length of Courses		37
Libraries		11
M.A., M.Sc. Degrees		46
Number System, Explanation of		59
Medals and Prizes		47
Objectives		34
Officers of Instruction, Faculty of Arts		20
Public School Inspectors' Certificates		43
Registration		37
Re-Establishment of Ex-Members of the Services		13
Requirements for Degrees, B. A. General		60
" " B. A., General Science		69
" " B. A., Home Economics		66
" " B. A., Secretarial		63
" " B. A., Theological Options		64
" " B. A., Teachers' Course		67
" " B. A., Journalism		69
" " B. A. Honors	Business Administration	72
" " "	Business Administration and Secretarial Science	74
" " "	Classics	76
" " "	Economics and Political Science	77
" " "	English and French	79
" " "	English Language and Literature	78
" " "	English and Latin	79
" " "	French and German	80
" " "	French and Spanish	81
" " "	French and Latin	81

		Page
Requirements for Degrees, B. A. Honors	General Science	71
" " "	History	82
" " "	Mathematics (including Actuarial Science) and Physics—Mathematics Option	83
" " "	Philosophy and Psychology	86
" " "	Social Science	89
" " B.Sc. Honors,	Biology	71
" " "	Chemistry	75
" " "	Chemistry and Physics	76
" " "	Geology	82
" " "	Mathematics and Physics—Physics Option	85
" " "	Radio Physics Option	85
" " "	Science and Medicine (B.Sc., M.D.)	90
" " B.Sc. in Nursing		65
" Diploma in Business Administration		73
" Diploma in Home Economics		66
" Diploma in Public Administration		74
St. Peter's College, Officers of		19
Scholarships, Graduate		53
Scholarships, Admission		55
Scholarships, Undergraduate		47
Scholarships and Prizes, Trois-Pistoles		52
Senate		6
Special Students		37
Specialist Certificates (High School Assistant's, Type A)		44
Summer School		43
University, Officers of Administration		8
" College, Officers of		17
Ursuline College, Officers of		19
Waterloo College, Officers of		19

SUMMARY OF REGISTRATION IN FACULTY OF ARTS

1946-47

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	47*	3	254	12	19	23	2	4	364
Second	1,059**	4	179	10	28	69	18	7	1,374
Third	395	.....	46	7	22	34	18	.....	522
Fourth	189	.....	91	4	17	30	20	.....	351
Graduate	48	.....	6	.....	.....	.....	1	.....	55
Part Time:									2,666
Graduate	23	.....	3	.....	1	2	.....	.....	29
Undergraduate	20	2	109	.....	2	12	3	.....	148
									2,843
Extramural	265	.....	.....	.....	.....	.....	.....	.....	265
Summer School	759	.....	.....	.....	.....	.....	.....	.....	759
Extension	501	.....	.....	.....	.....	.....	.....	.....	501
TOTALS	1,525 1,781	9	688	33	89	170	62	11	4,368
Duplicates									576
Faculty of Arts Totals: Intramural									2,843
Summer School, Extramural, Extension (less duplicates)									949
									3,792
Faculty of Medicine									272
Faculty of Public Health									48
University Total									4,112

* Admitted on Grade XII standing: 47.

** Admitted on Grade XIII standing: 736.

REGISTRATION IN FACULTY OF ARTS

1936-37—1946-47

Year	University College	Alma College	Assumption College	Huron College	Ursuline College	Waterloo College	St. Peter's College	Music Teachers College	Duplicates	Net Total
1936-37	2,400	6	345	21	111	68	.....	.....	587	2,364
1937-38	2,037	10	304	15	121	68	.....	.....	420	2,135
1938-39	1,929	6	318	9	97	72	.....	.....	309	2,122
1939-40	2,043	3	290	11	42	64	43	.....	377	2,119
1940-41	1,985	15	307	11	67	74	42	.....	340	2,161
1941-42	1,772	5	313	13	76	46	47	.....	281	1,991
1942-43	1,489	.....	324	14	54	54	57	.....	249	1,743
1943-44	1,597	13	305	25	71	67	65	.....	215	1,928
1944-45	1,699	7	306	23	94	71	59	.....	296	1,963
1945-46	2,602	10	465	32	105	156	60	9	369	3,070
1946-47	3,306	9	688	33	89	170	62	11	576	3,792