

General Calendar of
SAINT MARY'S UNIVERSITY
for the academic year 1963-64

Under the Direction of
the Jesuit Fathers

May 1963

Halifax - Nova Scotia - Canada



**Air view of Saint Mary's University, Saint Mary's University Campus,
and Halifax Harbour.**

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ACADEMIC CALENDAR YEAR

1963-64

AUGUST

- 15 Thursday.....Last day for receiving applications for entrance and supplemental examinations.

SEPTEMBER

- 3-10 Tues.-Tues.....Pre-registration interviews (if necessary) by appointment.
9:00 a.m.—12:00 noon; 2:00 p.m.—5:00 p.m.
- 9 Monday.....Entrance and supplemental examinations begin at 9:00 a.m.
- 9-12 Mon.-Thurs.....Registration for Evening Division students.
7:00 p.m.—8:30 p.m.
- 11 Wednesday.....Registration for all second year students.
9:00 a.m.—12:00 noon; 2:00 p.m.—5:00 p.m.
- 12 Thursday.....Registration for all third year students.
9:00 a.m.—12:00 noon.
Registration for all fourth year students.
2:00 p.m.—5:00 p.m.
- 13 Friday.....Registration for all Freshmen, including returning students with Freshman standing.
9:00 a.m.—12:00 noon; 2:00 p.m.—5:00 p.m.
- 14 Saturday.....Registration for returning resident students.
9:00 a.m.—12:00 noon.
- 16 Monday.....Instruction begins for all classes.
Last date for late registration with \$5.00 fee.
- 17 Tuesday.....Late registration fee from this date will be \$3.00 for every additional day.
- 18 Wednesday.....College Mission begins at 9:00 a.m. Mass of the Holy Spirit in the University Chapel at 4:15 p.m.
- 19 Thursday.....General meeting of the Faculty in the Senate Room at 11:30 a.m.
- 25 Wednesday.....Final date for late registration. Inauguration of extra-curricular activities.

OCTOBER

- 2 Wednesday.....Last date for change of registration.
- 4 Friday.....Fall Convocation.
- 14 Monday.....Thanksgiving Day. No classes.

NOVEMBER

- 11 Monday.....Remembrance Day. No classes.
- 18 Monday.....Solemn Requiem Mass for Most Reverend John T. McNally and deceased professors and alumni in the University Chapel at 12:00 noon.

DECEMBER

- 8 Sunday.....Feast of the Immaculate Conception. Patronal Feast of the University.
9 Monday.....The University celebration of the Patronal Feast. Solemn High Mass in the University Chapel at 11:30 a.m. No classes.
10 Tuesday.....First semester examinations begin.
18 Wednesday.....Christmas recess begins after the last examination.

JANUARY

- 2 Thursday.....Annual Closed Retreat begins at 8:00 p.m.
6 Monday.....Feast of the Epiphany. Classes resume at 8:30 a.m. Second semester begins.
7-10 Tues.-Fri..... Re-registration of all students for second semester.
16 Thursday.....General meeting of the Faculty in the Senate Room at 11:30 a.m.

FEBRUARY

- 12 Wednesday.....Public Speaking contest in the Debating Theatre at 8:15 p.m.
28 Friday.....Student Council elections.

MARCH

- 7 Saturday.....Feast of St. Thomas Aquinas, Patron of Schools.
21 Saturday.....Extra-curricular activities cease.
25 Wednesday.....Easter recess begins after the last class.
31 Tuesday.....Classes resume at 8:30 a.m.

APRIL

- 20 Monday.....Final examinations begin at 9:00 a.m.
29 Wednesday.....Survey Camp begins.

MAY

- 1 Friday.....General Faculty Meeting in the Senate Room at 4:00 p.m. Graduation ceremonies begin.
3 Sunday.....Baccalaureate Ceremony in the University Chapel at 3:30 p.m.
4 Monday.....Convocation Exercises in the University Auditorium at 8:30 p.m.
16 Saturday.....Survey Camp ends.

JUNE

- 22-25 Mon.-Thurs.....Registration for Summer Session.
10:00 a.m.—12:00 noon; 3:00 p.m.—5:00 p.m.
29 Monday.....Summer classes begin at 9:00 a.m.

AUGUST

- 13 Thursday.....Summer Session examinations begin at 9:00 a.m.

1963

JULY	AUGUST	SEPTEMBER
S M T W T F S ... 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	S M T W T F S 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	S M T W T F S 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
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SAINT MARY'S UNIVERSITY

CHANCELLOR

MOST REVEREND J. GERALD BERRY, D.D.
Archbishop of Halifax

BOARD OF GOVERNORS

Members Ex Officio

The Chancellor, *Chairman of the Board*

Right Reverend William H. Smith, D.P., V.G., P.P., Vice-Chancellor

Very Reverend C. J. Fischer, S.J., President of the University

Reverend E. M. Brown, S.J., Vice-President of the University, *Secretary*

Members Appointed

Retiring

Senator Harold Connolly, LL.D.....	1964
Errol M. Davison, B.Comm., C.A., R.I.A., *	1966
Gerald P. Flavin, LL.B., Q.C., *	1964
Ernest I. Glenister, B.A., M.D., C.M., *	1965
Christopher Grant, M.A., *	1964
Austin E. Hayes, B.Comm., *	1966
Lorne MacDougall, LL.B., K.S.G., Q.C.....	1965
R. W. McColough, B.Sc., D.Eng., M.E.I.C.....	1964
Right Reverend Cyril J. Martin, D.P., P.P.....	1966
John W. Merritt, M.D.C.M., F.R.C.S. (C), F.I.C.S., F.A.C.S.....	1966
Alban Murphy, Esq.....	1966
Colonel Sidney C. Oland, V.D., LL.D.....	1965
Bernard A. O'Leary, B.Sc., C.E., M.E.I.C.....	1964
Reverend J. L. Quinan, S.T.B., J.C.B.....	1966
Norman Stanbury*.....	1965
John A. Walker, M.A., LL.B., Q.C., K.S.G.....	1966

* *Alumni Representative*

75 ~~A~~ copies of
Monthly accounts

✓ *Burke Coffey*

OFFICERS OF ADMINISTRATION

- ✓ Very Reverend C. J. Fischer, S.J..... *President*
- ✓ Reverend C. S. Bathurst, S.J..... *Treasurer*
- ✓ Reverend E. M. Brown, S.J..... *Vice-Rector*
- ✓ Reverend W. A. Stewart, S.J..... *Dean of Studies*
- ✓ K. J. Cleary, B.A., B.Ed., M.A..... *Assistant to the Dean*
- Reverend D. Fogarty, S.J..... *Dean, Education*
- ✓ H. G. Beazley, B.Comm., R.I.A..... *Dean, Commerce*
- J. L. Ryan, B.Sc., B.E..... *Dean, Engineering*
- Reverend John J. Hennessey, S.J..... *Dean of Men*
- ✓ Sara Judd (Mrs. A.)..... *Registrar*
- Reverend A. J. Cotter, S.J..... *Librarian*
- ✓ S. V. Rountree, B.A., M.A., B.L.S..... *Assistant Librarian*
- Reverend M. J. O'Donnell, S.J..... *Student Counsellor*
- ✓ J. Stirling Dorrance, B.A., M.A..... *Assistant to the President*
- ✓ Reverend M. J. Belair, S.J..... *Director of Adult Studies*

IGNATIUS COLLEGE

- Very Reverend James J. Farrell, S.J..... *Rector*
- Reverend F. C. Elliott, S.J..... *Vice-Rector*
- Reverend Lawrence C. Braceland, S.J... *Dean of Studies, Registrar*
- Reverend Leonard J. Fischer, S.J..... *Student Counsellor*
- Reverend Donald F. Beaudois, S.J..... *Student Counsellor*
- Reverend William D. Connor..... *Bursar*

REGIS COLLEGE

- Very Reverend E. F. Sheridan, S.J..... *Rector*
- Reverend K. J. Scott, S.J..... *Vice-Rector*
- Reverend J. Hochban, S.J..... *Dean of Studies, Registrar*
- Reverend D. T. Asselin, S.J..... *Student Counsellor*
- Reverend V. J. MacKenzie, S.J..... *Librarian*
- Reverend F. E. Brennan, S.J..... *Bursar*

BOARD OF STUDIES

- Reverend W. A. Stewart, S.J., *Chairman*
- H. G. Beazley, B.Comm., R.I.A. J. L. Ryan, B.Sc., B.E.
- Reverend D. Fogarty, S.J. A. T. Sabean, B.A., B.Sc., M.Sc.
- Reverend H. J. Labelle, S.J.
- K. J. Cleary, B.A., B.Ed., M.A., *Secretary*

COMMITTEE ON ADMISSIONS

The Registrar and the Deans of the various Faculties.

OFFICERS OF INSTRUCTION

1962-63

- ✓ **Jennifer Balcombe**.....*Special Instructor, Physics*
B.Sc. (Hons.), University of Cambridge
- H. G. Beazley**.....*Dean, Commerce, Associate Professor, Accounting*
B. Comm., Saint Mary's University
R.I.A. (Society of Industrial and Cost Accountants of Nova Scotia)
- ✓ **Ray V. Beck**.....*Instructor, Engineering*
B.Sc., Saint Mary's University; B.E. (Civil) Nova Scotia Technical College
- Reverend M. J. Belair, S.J.**.....*Director, Adult Studies*
B.A., University of Montreal; M.A., University of Chicago
- ✓ **Stanislaw Bobr-Tylingo**.....*Assistant Professor, History*
LesL., DesL., University of Paris
- Harold G. Bowes**.....*Instructor, Drawing*
B.E. (Mechanical), Nova Scotia Technical College
- ✓ **William Bridgeo (On Leave of Absence)**.....*Assistant Professor, Chemistry*
Ph.D., University of Ottawa
- Edgar H. Buyco**.....*Assistant Professor, Mathematics*
B.Sc. (Chemical), University of Santo Tomas; Ph.D., Purdue University
- Theodore B. Cluclura**.....*Assistant Professor, Political Science*
Dr. Jur., Bavarian University and Ukranian Free University;
M.A., Columbia University
- Reverend W. T. Clarke, S.J.**.....*Lecturer, Mathematics*
B.Sc. (Civil), University of Toronto; M.S., Gonzaga University
- Reverend Alfred Collard, S.J.**.....*Assistant Professor, Theology*
B.A., University of Montreal; S.T.L., Immaculate Conception
- Arthur Conrad**.....*Instructor, Education*
B.A., B.Ed., M.A., Saint Mary's University
- William S. Crooker**.....*Instructor, Mathematics*
B.E., (Civil) Nova Scotia Technical College
- Reverend Ambrosius Czako**.....*Professor Emeritus, History of Art*
Ph.D., University of Budapest
- William Dalton**.....*Associate Professor, Political Science*
B.A., Saint Mary's University; M.A., University of Toronto;
Ph.D., University of Ottawa
- Robert Deegan**.....*Instructor, Accounting*
B.Comm., Saint Mary's University; C.A.
- Reverend E. Desgroseillers, S.J.**.....*Instructor, French*
B.A. (Hons.), Gonzaga University
- Reverend F. J. Devine, S.J.**.....*Associate Professor, French*
B.A., University of Ottawa; S.T.L., Immaculate Conception; M.A., McGill University;
Ph.D., Université Laval; Diplôme de l'Ecole Supérieure des Professeurs de Français à l'Étranger, (Sorbonne)
- ✓ **Charles Dixon**.....*Instructor, Accounting*
B.Comm., Saint Mary's University; C.A.

- Frederick Dockrill**..... *Lecturer, Education*
 B.A., B.Ed., Saint Mary's University
- John Earle** (On Leave of Absence)..... *Lecturer, Education*
 B.A., Saint Mary's University; B.Ed., Dalhousie University;
 M.A., Saint Mary's University
- Edward Flynn** (On Leave of Absence)..... *Assistant Professor, English*
 B.A., Memorial University; M.A., Dalhousie University
- Reverend Daniel Fogarty, S.J.**..... *Dean, Associate Professor, Education*
 M.A., Ph.D., Columbia University
- Alba Friedlaender**..... *Instructor, Mathematics*
 Ph.D., University of Pavia
- Reverend G. Gallagher, S.J.**..... *Assistant Professor, Theology*
 B.A., University of Montreal; M.S., Fordham University;
 S.T.L., St. Louis University
- Roy E. George**..... *Assistant Professor, Economics*
 B.Sc., University of London; M.A., University of Bristol
- Joseph N. Giorgini**..... *Assistant Professor, Classics*
 D.E.F., Grenoble; D.Litt., Catholic University of the Sacred Heart
 (Milan)
- George Hallett**..... *Assistant Professor, English*
 B.A., M.A., Dalhousie University
- Robert Hanrahan**..... *Lecturer, Business Administration*
 B.Comm., Saint Mary's University; M.B.A., Harvard University
- Mildred B. Harrington**..... *Special Instructor, English*
 B.A., B.Ed., Saint Mary's University
- Reverend J. E. Healey, S.J.**..... *Associate Professor, History*
 B.A., University of Montreal; M.A., University of Toronto
- P. J. Heckman**..... *Instructor, Drawing*
 B.Sc., Dalhousie University; B.E. (Civil), Nova Scotia Technical College
- Reverend J. J. Hennessey, S.J.**..... *Instructor, Theology*
 B.A., M.A., Gonzaga University
- F. Joseph Hill**..... *Instructor, Accounting*
 B. Comm., Saint Mary's University; C.A.
- Reverend George Hoffmann, S.J.**..... *Assistant Professor, Philosophy*
 B.A., University of Montreal; M.A., University of Toronto;
 S.T.L., Ph.L., Immaculate Conception
- Elizabeth A. Hutton**..... *Instructor, History*
 B.A., M.A., Dalhousie University
- Maurice E. Keating**..... *Instructor, Education*
 B.A., M.A., LL.B., Dalhousie University; LL.D., Saint Mary's
 University
- Reverend H. Labelle, S.J.** *Associate Professor, Philosophy of Education*
 B.A., University of Montreal; M.A., St. Louis University;
 S.T.L., Immaculate Conception; Ph.D., Gregorian University
- John Loewenstein**..... *Associate Professor, French*
 Ph.D., University of Vienna; F.R.A.I.
- J. R. MacCormack** (On Leave of Absence) *Assistant Professor, History*
 B.A., M.A., Dalhousie University; Ph.D., University of Toronto
- L. B. MacIsaac**..... *Instructor, Chemistry*
 B.Sc., St. Francis Xavier University
- Kenneth MacKinnon**..... *Lecturer, English*
 B.Sc., Saint Dunstan's University; M.A., Dalhousie University

- Reverend James McGarry, S.J.**..... *Associate Professor, Philosophy*
 B.A., Laval University; Ph.D., Gregorian University
- Rowland Marshall**..... *Lecturer, Psychology*
 B.A., M.A., University of Western Ontario
- Urhan S. Merdsoy**..... *Assistant Professor, Physics*
 B.Sc., M.Sc., University of Rochester
- Reverend J. E. Mills**..... *Instructor, Gregorian Chant*
 B.A., Saint Mary's University; B.Mus., University of Montreal
- Arthur P. Monahan**..... *Associate Professor, Philosophy*
 M.A. (Tor.); L.M.S. (Pont. Inst. Med. Studies); Ph.D. (Tor.)
- Reverend James Murphy, S.J.**..... *Associate Professor, Chemistry*
 B.A., Saint Joseph's University; M.A., Ph.D., University of Toronto
- Reverend Raymond O'Connor, S. J.**..... *Lecturer, Theology*
 B.A., University of Montreal; S.T.L., Immaculate Conception
- Reverend M. J. O'Donnell, S.J.**..... *Associate Professor, Classics*
 B.A., University of Montreal; S.T.L., Immaculate Conception
- Reverend J. E. Power, S.J.**..... *Director of Preparatory*
 B.A., University of Montreal
- Johanna Richter**..... *Instructor, German*
 M.A., University of Toronto
- Alfonso Rojo**..... *Assistant Professor, Biology*
 B.Sc., Valladolid; M.Sc., Ph.D., University of Madrid
- Enriqueta Rojo**..... *Lecturer, Biology*
 B.Sc., M.Sc., University of Madrid
- S. V. Rountree**..... *Instructor, French*
 B.A., M.A., Dalhousie University; B.L.S., McGill University
- Reverend Daniel Rourke, S.J.**..... *Associate Professor, Sociology*
 B.A., St. Francis Xavier University; M.A., Gonzaga University
- J. L. Ryan, E.D.**..... *Dean, Associate Professor, Engineering*
 B.Sc., Saint Mary's University; B.E. (Mechanical) Nova Scotia
 Technical College
- Allan T. Sabean**..... *Associate Professor, Chemistry*
 B.A., B.Sc., Saint Mary's University; M.Sc., McGill University
- Charles W. Schandl**..... *Assistant Professor, Accounting*
 Dr. Jur., University of Budapest; C.A.
- B. S. Sheehan (On Leave of Absence)**..... *Assistant Professor, Engineering*
 B.E. (Electrical), Nova Scotia Technical College; M.S.E.E., Massa-
 chusetts Institute of Technology
- David Hope Simpson**..... *Associate Professor, Geology*
 B.Sc., M.Sc., Ph.D., McGill University
- Sylvia Stapleton**..... *Instructor, Anthropology*
 B.A., M.A., University of Sydney
- Frank Tomscha**..... *Assistant Professor, Physics*
 B.A., B.Sc., M.Sc., Diplom Physiker, State University, Frankfort-on-
 Main
- Joseph J. Vorstermans**..... *Associate Professor, Economics*
 Econ. Doctor, Catholic University of Tilburg
- Donald Warner**..... *Lecturer, Engineering*
 B.E. (Mechanical), Nova Scotia Technical College;
 M.S.M.E., Purdue University
- Donald J. Weeren**..... *Lecturer, Education*
 B.A., Loyola College, M.S., Columbia University
- A. R. Yeoman**..... *Assistant Professor, English*
 B.A., Dalhousie University; M.A., B.D., University of Kings College
- Jullus Zarand**..... *Instructor, Fine Arts*
 Diploma, Academy of Fine Arts, Budapest

IGNATIUS COLLEGE

Rev. Henry B. Bedard, S.J.....	<i>Latin</i>
Rev. Donald F. Beaudois, S.J.....	<i>Mathematics</i>
Rev. Lawrence C. Braceland, S.J.....	<i>Greek, Latin</i>
Rev. Desmond P. Burke-Gaffney, S.J.....	<i>English</i>
Rev. Thomas F. Hoey, S.J.....	<i>Greek, Latin</i>
Rev. Paul H. Hoppe, S.J.....	<i>English</i>
Rev. Eric C. Smith, S.J.....	<i>Classics</i>

REGIS COLLEGE

Rev. D. T. Asselin, S.J. ...	<i>Sacred Eloquence, Ecclesiastical Rites</i>
B.A., University of Montreal; S.T.L., Immaculate Conception	
Rev. W. J. Browne, S.J.....	<i>Liturgy, Fundamental Theology</i>
B.A., University of Montreal; L.Ph., S.T.L., Immaculate Conception; S.T.D., Gregorian University	
Rev. F. E. Crowe, S.J.....	<i>Fundamental & Dogmatic Theology</i>
B.A., University of Montreal; B.Sc., University of New Brunswick; S.T.D., Gregorian University	
Rev. J. I. Hochban, S.J.....	<i>Fundamental & Dogmatic Theology</i>
B.A., University of Montreal; M.A., University of Toronto; S.T.L., Immaculate Conception; S.T.D., Woodstock College	
Rev. T. Horvath, S.J.....	<i>Fundamental & Dogmatic Theology</i>
S.T.D., Gregorian University	
Rev. M. J. Lapierre, S.J. ...	<i>Fundamental & Dogmatic Theology</i>
B.A., University of Montreal; S.T.L., St. Mary's College; Ph. D., University of Toronto	
Rev. E. J. MacGuigan, S.J.....	<i>Canon Law, Pastoral Theology</i>
B.A., M.A., Boston College; S.T.L., Milltown Park; J.C.D., University of Ottawa	
Rev. R.A.F. MacKenzie, S.J...	<i>Hebrew, Old Testament Exegesis</i>
B.A., University of Montreal; S.T.L., Immaculate Conception; M.A., University of Toronto; SS.D., Pontifical Biblical Institute	
Rev. V. J. MacKenzie, S.J.....	<i>Librarian</i>
B.A., University of Montreal; M.A., Catholic University of America	
Rev. J. M. Madigan, S.J.....	<i>Moral Theology</i>
B.A., University of Montreal; S.T.L., S.T.D., J.C.D., Gregorian University	
Rev. P. A. Riffel, S.J.....	<i>Pastoral Psychology</i>
B.A., University of Montreal; M.A., Fordham University	
Rev. E. F. Sheridan, S.J.....	<i>Moral Theology</i>
B.A., University of Montreal; S.T.L., Immaculate Conception; S.T.D., Gregorian University	
Rev. D. M. Stanley, S.J.	<i>Biblical Greek, New Testament Exegesis</i>
B.A., University of Montreal; S.T.L., St. Mary's College; SS.D., Pontifical Biblical Institute	

SCHOOL OF JOURNALISM (Joint Faculty)

G. N. Hancock, B.A., Dip. Journalism, *Director*

Bruce Cochran, B.Comm.

Reverend D. Fogarty, S.J., M.A., Ph.D.

H. R. Hatheway, B.A.

Derek Mann

Ralph Morton, B.A., LL.B.

Sister Marie Agnes, M.A., Ph.D.

OTHER UNIVERSITY PERSONNEL

Miss Jeanne Arsenault..... *Library*

Mr. Frank Baldwin..... *Manager of Bookstore, Coach of Basketball*

Miss Frances Burgess..... *Development Office*

Mrs. C. O. P. Caddell..... *General Office*

Miss Roberta Campbell..... *Registrar's Office*

Mrs. W. Bruce Elliott..... *Registrar's Office*

Miss Florence Foley..... *Library*

Mr. Robert Hayes..... *Director of Athletics, Coach of Football*

Miss Barbara Hubley..... *Student Inquiries Office*

Mrs. Mary Leahy..... *General Office*

Mrs. M. Lee..... *Library*

Mrs. Genesta Lewis..... *General Office*

Miss Judi MacLean..... *Development Office*

Mrs. Carol Markesino..... *Secretary to the President*

Mr. Donald Markley..... *Bursar*

Mr. John Merritt..... *Coach of Badminton*

Mr. Leigh Miller..... *Coach of Track*

Miss Judy Mitchell..... *General Office*

Mrs. Ann Nolan..... *Development Office*

Miss Donna O'Regan..... *Registrar's Office*

Mrs. O. Preston..... *Infirmmary*

Miss Pauline Williams..... *General Office*

UNIVERSITY RESERVE TRAINING PROGRAMMES

Capt. G. E. M. Ruffee, M.C., C.D. (*Resident Staff Officer*)

SURGEONS

A. L. Murphy, B.A., M.D., C.M., F.A.C.S.

John W. Merritt, M.D., C.M., F.R.C.S. (C) F.I.C.S., F.A.C.S.

PHYSICIANS

E. T. Granville, M.D., C.M., A.B. Crosby, M.D., C.M.

C. H. Reardon, M.D., C.M. Michael MacSween, M.D., C.M.

DENTISTS

F. C. Fennell, D.D.S.

W. V. Hogan, D.D.S.

A. Borden Haverstock, D.D.S.

OCULIST

E. I. Glenister, B.A., M.D., C.M.

GENERAL INFORMATION

HISTORY

ASSOCIATIONS

STATEMENT OF OBJECTIVES

STUDENT ORGANIZATIONS

SERVICES TRAINING

HISTORY

Saint Mary's University had its beginnings as a small college founded in 1802 under the inspiration of Reverend Edmund Burke, later Bishop Burke, to provide a measure of higher education for the Catholic community of Halifax. The site of the first building was just west of Saint Mary's Basilica on Spring Garden Road, and the first principal was Reverend R. B. O'Brien, D.D.

Official recognition to the College came in 1841 when "An Act Incorporating the Trustees of Saint Mary's College at Halifax" was entered in the House of Assembly on March 17th and duly passed on March 29th. On April 8th, 1852, the privileges granted in the Act of 1841 were made permanent.

For some years after this, the President of the College was Reverend Michael Hannan. He was succeeded in 1861 by the Reverend Patrick Power. During this period the College faced many difficulties, and had, on occasion, temporarily to suspend activities. Times of trouble, however, did not prevent the young College from producing more than its share of eminent men among whom may be mentioned the future Archbishop McCarthy of Halifax; Sir Malachi Bowes Daly, Lieutenant-Governor of Nova Scotia; Mr. Peter O'Hearn, Principal for many years of Saint Patrick's High School; Mr. Martin Griffin, Parliamentary Librarian for Canada.

In February, 1881, the College received a handsome bequest from the will of Mr. Patrick Power, a prominent Halifax business man. This generosity came at a critical period in the history of Saint Mary's, and it has been said that without it the institution might not have survived. Santamarians remember the name of Mr. Power with gratitude.

In 1903, His Excellency, Archbishop O'Brien effected a reorganization of the College and established it on a fine new campus on the corner of Quinpool Road and Windsor Street.

In 1913, on the invitation of the Most Reverend E. J. McCarthy, the Christian Brothers of Ireland assumed direction of the College and a considerable addition was made to the building erected in 1903. Reverend Brother P. J. Culhane was the first President of the new administration and the College owes much to the wisdom and ability of Brother Culhane and his successors.

By the close of the First World War Saint Mary's had made significant advances in the Engineering field with the inauguration of a three year course in association with the Nova Scotia Technical College. In April, 1918, the Nova Scotia Legislature, in the preamble to an Act to amend the law respecting Saint Mary's, declared that Saint Mary's "originally incorporated by Chapter 39 of the Acts of 1841, shall continue to be deemed and taken to be a University, with all the necessary and usual powers . . . including the power of conferring Degrees in Arts and in all the other faculties."

On the gracious invitation of the Most Reverend John T. McNally, D.D., Archbishop of Halifax, and with the consent of the Very Reverend Father General of the Society of Jesus, the Jesuit Fathers of Upper Canada assumed the direction of the College in June, 1940.

In September, 1951, Saint Mary's moved to a new thirty acre campus on the historic Collins estate and former Gorsebrook Golf course in south Halifax. With its fine modern building and excellent playing fields Saint Mary's looks ahead with renewed dedication to the fulfilling of its role as a first class Catholic university in one of Canada's most rapidly growing cities.

IGNATIUS COLLEGE; REGIS COLLEGE

In the early seventeenth century Jesuits came to the New World as missionaries. From the beginning they considered the work of education and the establishment of schools in Canada of primary importance. The first Canadian houses for the training of Jesuit teachers were established in Montreal in 1848. In 1913, a further centre, St. Stanislaus Novitiate, was founded at Guelph, Ontario, for the training of members of the Order in English-speaking Canada; in 1930, the College of Christ the King was opened in Toronto for Philosophical and Theological studies.

By an agreement of January 2nd, 1957, both St. Stanislaus Novitiate and the College of Christ the King affiliated with Saint Mary's University, and were incorporated as 'Ignatius College' and 'Regis College' respectively. These Colleges, offering degree courses in the Humanities, Philosophy and Theology, provide young Jesuits with the basic preparation for their work in the educational institutions directed by the Order across Canada.

ASSOCIATIONS

Saint Mary's University is a member of the National Conference of Canadian Universities and Colleges, of the Association of Universities of the British Commonwealth, of the Canadian Association for Adult Education, and of the Jesuit Educational Association.

Saint Mary's has been associated with the Nova Scotia Technical College since 1916 providing the first three years of courses leading to the Degree of Bachelor of Engineering in Civil, Electrical, Mechanical, Mining and Metallurgical, or Chemical Engineering. In 1945, the School of Journalism was established by the University of King's College, Mount Saint Vincent College, and Saint Mary's University in co-operation with the Halifax daily newspapers. Since 1953, Saint Mary's has been one of the institutions sponsoring the Atlantic Summer School for Advanced Business Administration. In 1955, it entered upon an agreement of affiliation with the Maritime School of Social Work. And in 1957, it affiliated Ignatius College in Guelph, Ontario, and Regis College in Toronto, Ontario, for courses leading to degrees in Arts and Sacred Theology. Also in 1957, Saint Mary's became one of the six Maritime Universities co-operating with the Nova Scotia Department of Education in the professional training of teachers.

STATEMENT OF OBJECTIVES

Saint Mary's University shares in the renowned Jesuit tradition of Catholic education. While it strives to keep faith with modern advances in knowledge, it considers that the resources of the past, especially the intangible ones, are vitally important to the education of the citizens for tomorrow.

GENERAL AIMS

Saint Mary's firmly believes that education must entail the full balanced development of man's faculties. And this development centres chiefly on three ideals: KNOWLEDGE, CHARACTER, and LEADERSHIP.

By KNOWLEDGE, men are formed to whom the treasures of ancient and modern learning are unlocked; men are trained to think and assess values; to deal with fact and abstract thought; equipped to do the task of today; inspired with creative ideas for the task that will be theirs tomorrow.

By CHARACTER, men are formed with a capacity to act according to the values learned; who in their chosen careers act steadfastly in accordance with the highest standards of right living and gentlemanly conduct under the guidance of supernatural faith; men who so live the truth that they know that their conviction and courage will give hope and confidence to the world of tomorrow.

By LEADERSHIP, men are formed to take an enlightened place in society and meet the challenge of the times undaunted; professional men, men in the realm of communications, businessmen, scientists, engineers who in their profession will radiate principles of Faith and sound citizenship.

In the pursuit of these ideals, Saint Mary's requires of all students, whatever their vocational or professional interests, a large number of courses in the cultural areas of languages and history, philosophy and religion, mathematics and science. A broad education is considered as the one most worthy of the dignity of the human soul and the one best fitted to preserve a free society.

SPECIFIC AIMS

But the University is conscious of the dignity of the individual. And in recognition of divergent inclinations and aptitudes leading to differing vocational choices, it offers a reasonable variety of course programmes leading to: Master of Arts (in Education), Master of Social Work, Bachelor of Education, Bachelor of Arts, Bachelor of Science, Bachelor of Commerce, Diploma in Engineering, Diploma in Education, Diploma in Journalism. Special provisions are made for students who intend to enter professional studies in Theology, Dentistry, Law, Medicine, etc.

DISCIPLINE

It is assumed that students come to the University for a serious purpose, and that they will cheerfully conform to duly established customs, policies and rules. Regulations are intended to maintain favourable study conditions, to promote character development and to foster gentlemanly deportment. No young man of integrity and good breeding can misunderstand the purpose of each regulation—and no other kind of student is desired at the University. The faculty, therefore, reserves the right to censure or penalize students who are guilty of breaches of school discipline. It is the aim of the faculty to administer academic discipline so as to maintain the highest standards of integrity. The registration of the student is considered an acceptance of regulations.

A candidate for a degree must be of good moral character and must have given general satisfaction throughout his course.

STUDENT ORGANIZATIONS

The extra-curricular organizations listed below are officially recognized by the University. The activities of these societies, which aim at developing Christian Leadership, are directed by their respective officers with the co-operation and guidance of a member of the faculty.

Students who represent the University in any public activity, dramatics, debating, oratorical contests or athletic competition, or hold office in any student organization, must be in good standing at the time of their election or appointment.

RELIGIOUS ORGANIZATIONS

Sodality of the Blessed Virgin Mary. The purpose of the Sodality is to develop Catholic leadership and to form lay apostles under the protection of the Mother of God.

The Apostleship of Prayer and League of the Sacred Heart. The object of the Apostleship is two-fold: to instill into the students that apostolic spirit which, it is hoped, they will continue to exercise in the career of their choice, and secondly, to join in the great work of reparation for the outrages daily offered to Our Lord.

Saint John Berchman's Society. Its purpose is to train students for all ecclesiastical functions in the Sanctuary and to develop in them a greater appreciation of the liturgical life of the Church.

Canadian Student Mission Crusade aims at the creation of an active and effective interest in Catholic Foreign Missions, and gives assistance to many foreign mission centres.

GENERAL ORGANIZATIONS

Students' Council. It aims at promoting the best interests of the students by sharing with the Faculty the responsibilities of University government in all non-academic matters and in accordance with the powers conferred by the President.

The Canadian Federation of Catholic College Students unites the Catholic Colleges and Universities of Canada by the mutual sharing of information and activities and by promoting spiritual, intellectual, and cultural objectives.

World University Service of Canada. Through this national organization Saint Mary's participates in an international programme of material assistance, student exchange, and interchange of ideas throughout the world university community.

National Federation of Canadian University Students strives to encourage better understanding among students across Canada, and to promote effectively student needs and represent their interests here and abroad. Membership is open to all students.

Tau-Gamma-Sigma Society is restricted to students in the Faculty of Arts. Besides social and recreational activities the Society undertakes service projects for the welfare of the University and civic communities.

Sigma-Gamma-Phi Society is restricted to Science and Pre-medical students. Its functions are, in general, similar to those of the Tau-Gamma-Sigma Society.

Delta-Lambda-Kappa Society is open to students in the Faculty of Commerce. This Society sponsors the Student Placement Programme, and organizes talks and interviews to open opportunities for summer work and permanent employment.

The Engineering Society is restricted to Engineering students. Its activities correspond, in general, to those of the above societies of Arts, Science, and Commerce.

The Debating Society is open to all students. Its activities complement the training of the Public Speaking courses, and include Intercollegiate and Interfaculty Debates, Radio Debates and Forums, etc.

The Choral Society meets regularly to put in practice the theory studied in the Gregorian Chant courses. This Society is responsible for the singing at all official ecclesiastical functions of the University.

The Philosophers' Academy has for its purpose the promotion of philosophical study and of the investigation of philosophical problems by the presentation and discussion of philosophic topics at its regular meetings.

Saint Mary's University History Society provides a forum for the discussion of significant themes and problems in History, with emphasis on Modern History. Members should have at least one University History course as background.

Saint Mary's University Dramatic Society presents each year a major dramatic production. It co-operates in the entertainment programmes offered by other student organizations.

The Journal is the newspaper "voice of the students" edited and issued twice a month.

Saint Mary's University Athletic Association regulates the athletic activities of the students. All external and intramural contests, the conferring of athletic prizes, Letters and other awards, are under the direction of the executive of the Association.

The Band provides students with an opportunity to develop instrumental talent. It is in attendance at student activities and contributes much to "school spirit".

The Young Liberals' Club and **The Young Progressive-Conservative Club** strive to arouse on the campus an informed interest in civic and government affairs through a programme of Model Parliaments, guests speakers, meetings, etc.

The Alumni Association. All former Saint Mary's students are eligible for membership. The Association, in addition to, social programme, has established an Annual Fund for university support. The Association nominates six members for appointment to the University's Board of Governors. Saint Mary's alumni are encouraged to avail themselves of many of the University's facilities for recreation and study.

SERVICES TRAINING

REGULAR OFFICER TRAINING PLAN (ROTP)

Under the Regular Officer Training Plan successful applicants who have completed Senior Matriculation are enrolled in the Armed Force of their choice and are provided with College or University training.

On successful completion of academic and military training, cadets will be promoted to Commissioned Officer rank in the Regular Force. The privilege of release, if desired, will be granted after three years' Commissioned Officer service. Further details may be obtained from the Resident Staff Officer or from any recruiting office.

UNIVERSITY NAVAL TRAINING DIVISION (UNTD)

The University Naval Training Divisions have been established to select and train suitable University Students for commissioned rank in all branches of the Royal Canadian Navy (Reserve).

For further details, contact: Staff Officer—UNTD, H.M.C.S. "Scotian", H.M.C. Dockyard, Halifax, N. S., Phone 423-1161, Local 406.

CANADIAN OFFICERS TRAINING CORPS (COTC)

Saint Mary's University participates in the programme of academic and practical Studies approved by the Department of National Defence for University undergraduates whereby students may qualify for a commission in the Canadian Army—Active Force, Reserve Force, or Supplementary Reserve.

For full information contact Major J. L. Ryan; E. D., Dean of Engineering.

ROYAL CANADIAN AIR FORCE UNIVERSITY RESERVE TRAINING PLAN (URTP)

The purpose of the URTP is to select students for training in Officers' branches or professions allied to their studies and aptitudes. Where specialist training is required, students spend up to two summers at RCAF schools acquiring theoretical and practical knowledge which both supplements and complements their university studies, while a further year of practical experience qualifies them as Junior Officers in their respective branches. The liaison officer at Saint Mary's University is Prof. A. T. Sabeau, Chemistry Department.

FINANCIAL INFORMATION

FEEES

BURSAR'S REGULATIONS

WITHDRAWAL AND REFUNDS

SCHOLARSHIPS AND BURSARIES

FEES

As first term fees, students are required to make an initial payment of \$275.00 (resident students \$575.00) on or before the date of Fall registration.

Second term fees, payable on the dates of re-registration, January 7th-10th, are the balance of the student's account.

ACADEMIC FEES

These fees include all regular charges of the University for registration, tuition, laboratories, library, athletic programme, insurance. (The STUDENTS' COUNCIL FEE is an additional charge). They apply to all students registered for three or more courses, up to the normal full-time load. A course over the normal load is \$100.00.

Arts, Science, Commerce, Education, Journalism.....	\$485.00
Engineering.....	525.00
Part-time and Evening Division: per course.....	100.00

SPECIAL FEES

Late registration: \$5.00 for each day after registration, up to the maximum of \$50.00

Graduation: with Degree.....	\$ 15.00
with Diploma.....	10.00
in absentia (additional fee).....	15.00
Supplemental or Special examination.....	15.00
at an outside centre (additional fee).....	5.00
Re-reading.....	5.00
Official transcript (after first copy).....	2.00

STUDENTS' COUNCIL FEE

At the request of the student body, all full-time students are required to pay a fee of \$15.00 in support of student projects. This fee is administered by the Students' Council and covers the student newspaper and the yearbook, admission to home athletic games, a reserve Student Building Fund, etc.

RESIDENCE FEES

The residence fee covers room rent and board for the academic year from the day before Fall registration to the day after the final examination, but excluding the Christmas recess. Outside this period and during the Christmas recess the charge for resident students is \$4.00 per day; no reduction of this rate is made for meals not taken at the University.

Room and board.....	\$600.00
Personal laundry, per term.....	25.00

BURSAR'S REGULATIONS

1. The University reserves the right to make changes without notice in its published schedule of tuition, residence, and other fees.

2. To confirm his acceptance, a resident student must forward a deposit of \$25.00 for room reservation before August 15th. This is credited towards the student's residence account; it is not transferable to tuition and is not refundable unless the reservation is cancelled before August 25th.

3. No reduction in fees is granted to a student who enters the University after the date of opening.

4. Outside accounts (music teacher, druggist, doctor, hospital, etc.) will not be handled by the Bursar unless a deposit has been made to cover them. Use of a piano for practice will be an extra charge.

5. The University will not advance money for the purchase of text books, stationery, travel or personal expenses.

6. Any damage done to University buildings, furniture or equipment will be charged to the offending students.

7. The University accepts no responsibility for injuries or loss of time incurred by students while taking part in student activities.

8. The premium for an accident insurance policy is included in the general academic fee paid by all full-time students. As residents of Nova Scotia are covered by the Province's Hospitalization Plan, the University's insurance plan carries on from there to cover up to \$350.00 surgical, \$75.00 medical, etc.

Students from outside Nova Scotia, not covered by hospitalization, should provide for it either through their family or personally.

9. No student will be admitted to a semester examination or be promoted from one year to another or receive any report, degree, diploma, certificate, transcript, or testimonial whatsoever, until his financial accounts have been satisfactorily settled.

10. Drafts, cheques, money orders, etc., should be made payable at par to SAINT MARY'S UNIVERSITY and addressed to the Bursar, Saint Mary's University, Robie Street, Halifax, N. S.

WITHDRAWAL AND REFUNDS

Students who withdraw from the University within two weeks of the opening of classes may receive a refund of all fees, less \$25.00 (service charge) and \$4.00 per day residence room and board.

When a student withdraws from the University, he will at once notify the Registrar. In all cases **this notification will be taken as the official date of withdrawal from the University.**

A proportionate refund of Board and Tuition fees may be granted to a student who withdraws from the University for a reason approved by the proper authorities if application is made in writing to the Bursar. Students withdrawing at the beginning of a month or at any time within the month are charged tuition for the whole month.

A student is accepted for residence on the understanding that he remain in residence for the whole session, or, in the case of withdrawal during the session, that he obtain a mutually satisfactory substitute resident. All students are charged room and board for the complete session and no refund is made on withdrawal unless or until an acceptable substitute has assumed obligation to the University for the balance of the session.

No refund of any fee will be granted to a student who withdraws from the University after November 15th for the first semester, or after March 15th for the second semester.

SCHOLARSHIPS AND BURSARIES

In an effort to help needy and deserving students, Saint Mary's University annually awards many scholarships and bursaries. Entering students who wish to make application for scholarships must have an average of 75 per cent or over in their high school work. University students who apply for continuing scholarships must have a minimum average of 70 per cent. Bursaries are awarded on the basis of need for students of less than scholarship average but whose abilities give promise of solid and successful university work.

All scholarship applications must be made in writing to the scholarship officer of the University before July 31. Each scholarship is awarded on a yearly basis; students who wish a renewal must reapply by this date.

SCHOLARSHIPS OPEN TO ALL STUDENTS

Ashwood Scholarship: Valued at \$200.

Flinn Scholarships: Two, valued at \$250 each.

Mary C. Daley Scholarship: Valued at \$100 and awarded in alternate years.

Union Carbide Scholarships: Two, tenable for 4 years. Valued at \$700 each for the first year, \$600 in each subsequent year.

Duncan W. Lynch Memorial Scholarship: Valued at \$400. Open annually to a Catholic student from Dartmouth.

John Glenister Memorial Scholarship: Valued at \$150. Open annually.

Halifax Rifles Centenary Scholarship: Valued at \$200 minimum a year.

Henry Birks and Sons Scholarship: Valued at \$100.

25 Additional University Scholarships: 4 valued at \$400 each, 4 valued at \$300 each, 9 valued at \$200 each, and 8 valued at \$100 each.

SCHOLARSHIPS OPEN TO ENTERING STUDENTS

Saint Mary's University Ladies' Auxiliary Scholarship: Valued at \$350. Open to a student of Saint Patrick's High School, Halifax, Nova Scotia.

Brother Stirling Scholarship: Donated by Mr. John H. Dickey. Valued at \$300. Open to a student in the graduating class of Saint Mary's University High School.

University Scholarship: Valued at \$400. Awarded annually to a leading student of Saint Patrick's High School, Halifax, Nova Scotia.

University Scholarship: Valued at \$400. Awarded annually to a student of Saint Malachy's High School, Saint John, New Brunswick.

University Scholarship: Valued at \$200. Awarded annually to a Catholic student from Moncton, New Brunswick.

University Scholarship: Valued at \$400. Awarded annually to a student of the graduating class of Gonzaga High School, St. John's, Newfoundland.

University Scholarship: Valued at \$400. Awarded annually to a student of the graduating class of Brother Rice High School, St. John's, Newfoundland.

11 Additional University Scholarships: 3 valued at \$400 each, 4 valued at \$200 each, and 4 valued at \$100 each.

SCHOLARSHIPS OPEN TO SOPHOMORE, JUNIOR, AND SENIOR STUDENTS

Nova Scotia Light and Power Company Scholarship: Valued at \$300. Open to a Science or Engineering student.

James E. Donohue Memorial Scholarship: Valued at \$100. Open to students in Engineering and awarded in alternate years.

27 Additional University Scholarships: 5 valued at \$400 each, 10 valued at \$200 each, and 12 valued at \$100 each.

BURSARIES

Rebecca Cohen Memorial Bursary: Valued at \$100. Open annually.

University Residence Bursaries: 15 valued at \$100 each. Open annually to resident students from parishes in the Archdiocese of Halifax.

University Bursaries: Nine additional university bursaries: 2 valued at \$400 each, 3 valued at \$200 each, and 4 valued at \$100 each.

BIRKS FAMILY FOUNDATION AWARDS

The national firm of Henry Birks and Sons has established a foundation award plan whereby the children of employees may receive awards covering all or half the tuition cost of university study. Further information may be obtained from the firm of Henry Birks and Sons.

SCHOOL OF EDUCATION SCHOLARSHIPS

The province of Nova Scotia, through arrangement with the University, offers a number of scholarships to university graduates taking the degree of Bachelor of Education. Application for these scholarships should be made in writing to the Dean of the School of Education, Saint Mary's University.

PARISH SCHOLARSHIPS

Many parishes and parish organizations offer scholarships to deserving students. Students interested in such scholarships should make inquiries from their parish or the parish organization concerned.

Saint Agnes Parish Holy Name Society Scholarship: Valued at \$100.

Saint Joseph's Parish Scholarships: Two: one valued at \$100 and one at \$150.

Saint Mary's Basilica Parish: The Monsignor Carroll Memorial Scholarship valued at \$300.

Saint Peter's Parish Holy Name Society Scholarships: Varying in number and value.

Saint Rose of Lima Parish Holy Name Society Scholarship: Valued at \$100.

Saint Stephen's Parish Scholarships: 4 valued at \$100 each.

Saint Stephen's Educational Association Scholarships: 3 valued at \$100 each.

HOME AND SCHOOL SCHOLARSHIPS

The Home and School Association of various schools offer scholarships to deserving students. Students needing scholarship assistance should seek further information from their respective Home and School Association.

Bedford Home and School Association Scholarship: Valued at \$100.

Oxford Home and School Association Scholarship: Valued at \$50.

Saint Thomas Aquinas Home and School Association Scholarship: Valued at \$100.

KNIGHTS OF COLUMBUS SCHOLARSHIPS

Many councils of the Knights of Columbus offer scholarships to deserving students. Students interested in such scholarships are advised to make inquiries to the council in their area.

Knights of Columbus Council 313 (Dartmouth) Scholarships: Two valued at \$200 each.

Knights of Columbus Council 1097 (Halifax) Scholarships: 7 valued at \$150 each.

Knights of Columbus Council 2181 (Yarmouth) Scholarships: Valued at \$200.

COLOMBO PLAN SCHOLARSHIPS

Each year the Colombo Plan offers a number of awards to deserving students from Colombo Plan countries.

READERS AND LABORATORY ASSISTANTS

Each year a number of positions are open to Junior and Senior students to act as course readers and assistants in the various laboratories. Remuneration is based on hours of employment during the term.

ALUMNI LOAN FUND

Saint Mary's University Alumni Association offers interest free loans of up to \$500 a year. Application forms may be obtained from the alumni office.

GOVERNMENT LOANS

The Nova Scotia Government offers loans to Sophomore students who have resided in Nova Scotia for at least five years previous to the date of their loan application. Applications and letters requesting information should be addressed to the scholarship officer of the University.

Most Provincial Governments offer student loans. Interested students may obtain further information from their Provincial Governments.

ADMISSION INFORMATION

APPLICATION

ADMISSION REQUIREMENTS

ADMISSION TO ADVANCED STANDING

REGISTRATION

APPLICATION

All correspondence concerning admissions should be addressed to the Registrar.

The application form is intended for new students, i.e., those not in attendance at Saint Mary's last year, and should be forwarded to the Registrar not later than August 15th. This application form must be accompanied by the following:

1. a testimonial of good character
2. the official certificates received from the Department of Education or other source, stating the courses taken and the marks obtained in Grade XI and/or Grade XII. (These should be forwarded as soon as they become available at the Department of Education). Students who have attended another university should present a transcript of their marks and a testimonial of honourable dismissal. Failure to do this may result in expulsion.
3. a recent photograph. (Passport size).
4. a \$5.00 application fee if the applicant is not a resident of Canada.
5. where necessary, students should send a certificate stating that their mastery of English is such as to enable them to follow courses at university level.

All students must submit to the Registrar by September 1st the "Confirmation of Application" card. All students intending to reside at Saint Mary's are required to make a deposit of twenty-five dollars (\$25.00) for room reservation before August 15th. This amount is a deposit on first term residence fees. It will be returned if the University is unable to provide accommodation or if the reservation is cancelled before August 25th; otherwise it is not refundable or transferable to tuition.

ADMISSION REQUIREMENTS

JUNIOR MATRICULATION

To be admitted to university as an undergraduate a candidate must offer credit in seven matriculation subjects. The matriculation standing must be 50% in each subject with a general average of 60%.

Candidates for university should during their High School keep in mind the requirements for admission and plan their courses accordingly.

When in doubt concerning entrance qualifications they should consult the University Registrar for evaluation of certificates and guidance.

The normal Junior matriculation requirements for the various faculties and diploma courses are as follows:

English
Foreign Language

Algebra
Geometry

Three of: Chemistry, Physics, Biology, History, Economics, Latin or another language.

Candidates for Science and Engineering should offer Chemistry, Physics and/or Trigonometry. The marks in Science and Mathematics should be above average.

ACCEPTABLE CERTIFICATES

Satisfactory marks in any of the subjects listed above will be accepted as credit toward the entrance requirements if such marks are granted by any of the following examining bodies.

- (a) Certificates of the Common Examining Board of the Atlantic Provinces.
The pass mark on Grade XI is 50%. Marks of 40% or over on Grade XII subjects may be counted as equivalent to passes in corresponding Grade XI subjects.
- (b) High School or Accredited High School certificates of the Province of New Brunswick.
- (c) Equivalent Certificates issued by Education Departments of other Provinces.
- (d) Second Year Certificates issued by Prince of Wales College, Charlottetown, Prince Edward Island.
- (e) Equivalent Certificates of Matriculation Examinations taken at Universities.
- (f) Certificates similar to the above issued by University or other official examining bodies, when found adequate.

ADMISSION TO ADVANCED STANDING

An applicant who presents a satisfactory Senior Matriculation Certificate (Nova Scotia Grade XII), or the equivalent, may receive credit in: English, Mathematics, History, Latin, French, Chemistry, Physics, Biology, Geology, under the following conditions:

- (1) A maximum of five credits is allowed for Senior Matriculation work.

- (2) These credits must be obtained before courses at the University are begun.
- (3) The student must have a mark of 60% in subjects other than the Sciences; a student must have a mark of 75% in Science subjects and give evidence of adequate Laboratory work.
- (4) Advanced standing is rarely granted to applicants for Engineering or Science for Senior Matriculation Mathematics, Physics, Chemistry.
- (5) Any courses taken at other institutions or by Senior Matriculation after first registration at Saint Mary's University will not be credited by the University unless the student has obtained prior, written approval of the Dean.

The certificates to which these provisions apply are the following:

- (a) Grade XII Certificate of the Atlantic Provinces Common Examining Board;
- (b) Third Year Certificate as issued by the Prince of Wales College, Prince Edward Island;
- (c) Certificate of the first year of Memorial University College, Newfoundland;
- (d) Equivalent Senior Matriculation Certificates issued by Departments of Education of other Provinces, or approved by the Committee on Admissions.

REGISTRATION

To facilitate Registration, students who foresee difficulties in arranging their studies' programme should make an appointment at the Student Inquiry Office for a pre-registration interview.

Registration will take place on the dates and times set forth in the Academic Calendar. Students should follow exactly the directions for Registration Procedure supplied by the Office of the Registrar. No credit will be allowed for a course for which the student is not regularly registered.

It is part of registration to meet initial obligations with the Office of the Bursar.

At the time of registration, all students not registered at Saint Mary's during the past academic year are required to present a certificate of medical fitness. Students participating in major sports may also be asked to produce a similar certificate.

PROVISIONAL AND LATE REGISTRATION

If official documents are not received by the Registrar and approved by the Committee on Admissions two weeks before registration dates, provi-

sional registration may be permitted. In case of such provisional registration the student is responsible for having all official entrance documents filed with the Registrar not later than two weeks after the regular registration date. A student is not officially registered in the University until provisional registration has been confirmed.

Students registering on any other date than that designated in the Academic Calendar are required to pay a late registration fee (see 'Particular Fees').

CHANGE IN REGISTRATION, AND DROPPING COURSES

Any change after the initial registration is permitted only with the written consent of the Dean of the faculty concerned. For each course added, dropped, or changed, even with the consent of the Dean, a fee of \$2.00 is charged. In the case of a change initiated by the University authorities no fee is charged.

No change in registration is permitted after the second week of instruction in a semester. Students who drop a course without authorization between this time and the end of the semester will be given a grade of 'WF' (Withdrawal Failure) on the University records. A note of 'W' signifies authorized withdrawal. No term tuition refund will be granted on individual courses dropped after the second week in a semester. Should registration prove insufficient, the University reserves the right to cancel any listed course.

Without the approval of the Dean of the Faculty, no student may register for an advanced course in his third year until all required 100 number courses have been completed, or for an advanced course in his fourth year until all required 200 number courses have been completed.

ACADEMIC INFORMATION

ATTENDANCE

EXAMINATIONS AND GRADES

EVENING DIVISION

ADULT STUDY SERIES

**THE ATLANTIC SUMMER SCHOOL FOR
ADVANCED BUSINESS ADMINISTRATION**

ATTENDANCE

Attendance at all assigned class, laboratory periods, and official assemblies is mandatory for all students. For Catholic students, this requirement extends to religious functions.

A student whose absences in a course have been excessive will, at the discretion of the professor, be disbarred from examinations in that course.

Properly documented appeals based on legitimate absence from a course may be made to the Committee on Academic standing. The appeal must be made no later than one week prior to the beginning of examinations.

EXAMINATIONS AND GRADES

The school year is divided into two semesters. At the end of each semester there are examinations in all courses being offered. In each full course, the results of the first semester count for 40%, and of the second semester for 60% of the year's work. Second semester examinations cover the work of the whole year in that subject.

Other semester work and tests may be valued at a maximum of 20% of the semester total. This amount, however, may be increased with the permission of the Dean. A student whose record of assignments in a subject is unsatisfactory may be debarred from examination in that subject.

The pass mark in each subject is 50%. A student who attains 50% in any subject receives a credit in that subject.

SUPPLEMENTAL AND SPECIAL EXAMINATIONS

Supplemental examinations cover the same work and texts as the immediately preceding regular examinations, and normally are of three hours duration.

A student who receives a mark between 40% and 50% is eligible to write a supplemental examination under the following conditions:

- (1) The supplemental is written at the prescribed time the following September.
- (2) No more than two subject marks are between 40% and 50%.
- (3) No subject mark is below 40%, or recorded as WF (Withdrawal Failure).

Supplemental examinations are not graded but recorded as pass (50%) or failure.

No more than three full courses passed by supplemental examinations will be credited towards any degree or diploma.

Only one supplemental examination is permitted in any course. No course may be taken more than twice, except with the permission of the Committee on Academic Standing.

A special examination is an examination written outside the times assigned for regular and supplemental examinations. Permission to write a special examination is granted rarely and only for extraordinary reasons. Not more than two special examinations may be written in any one subject.

Applications for supplemental, special, or entrance examinations must be made no later than August 15th.

FAILURES

A student who defaults a final examination is considered to have failed the course and a WF will be entered on his record. He will have to repeat the course.

If the student defaults an examination for medical reasons, a medical certificate covering the precise period of absence must be filed with the Registrar's Office before the end of the period of examinations.

A student who fails in more than 40% of his year's work at the regular examinations fails his year, and is not eligible for supplemental examinations.

A student who fails a first semester examination with a mark of less than 20% is automatically withdrawn from that course, and receives a WF entry on his record for the year's work. Similarly any student who withdraws from a course in the second semester after a first semester mark of less than 40% in that course, receives a WF entry on his record for the year's work.

If a student fails a course which involves both lectures and laboratory work, he must repeat both parts of the course, or an approved equivalent to be determined by the department concerned.

ACADEMIC PROBATION

A person who is on academic probation is subject to dismissal at any time at the discretion of the Dean of Studies.

Any student whose academic record or progress is judged to be unsatisfactory because of poor attendance, assignments, or other reasons may be placed on academic probation. If the record continues to be unsatisfactory in the subsequent term, the student may be dismissed from the university.

Any student who fails more than 40% of his work at either mid-year or end of the year examinations is placed on academic probation. Any student who fails in two years of his work is automatically subject to "academic dismissal".

SPECIAL PROGRAMMES

EVENING DIVISION

Courses leading to the degrees of Bachelor of Arts, Bachelor of Commerce, Bachelor of Science, Bachelor's and Master's degrees in Education are offered at the University in evening and summer sessions; they are open to men and women. Students entering these courses must have fulfilled the usual requirements for college entrance. They must maintain the same standards as students in the Day Division.

Evening Division courses begin in September and end with the May examinations. Summer sessions are held in the daytime for seven weeks during July and August. All inquiries for further information should be addressed to the Registrar or to the Dean, Evening Division.

ADULT STUDIES SERIES

In 1951, Saint Mary's University Adult Studies were instituted as a cultural service to the Halifax community. Lectures, academic in subject and treatment, are offered regularly to the general public on a variety of topics. Their purpose is to extend familiarity with humanistic learning, awaken critical attitudes, and stimulate a deeper sense of values consistent with our western heritage.

Usually lectures are given in series, ten lectures devoted in one semester to a particular topic.

Inquiries for information should be addressed to The Director, Adult Studies.

THE ATLANTIC SUMMER SCHOOL FOR ADVANCED BUSINESS ADMINISTRATION

This summer school offers a five weeks' course for executives. It is sponsored jointly by the following Universities: New Brunswick, Acadia, Mount Allison, King's College, Dalhousie, Saint Mary's, Nova Scotia Technical College, Saint Francis Xavier, Memorial, Saint Dunstan's and Prince of Wales College.

The course is designed to benefit both university and non-university men. It is desirable, however, that students have from five to ten years of experience in the management of men or in the conduct of technical or staff functions at a fairly responsible level.

The course is held at the University of King's College, Halifax, from mid-June to mid-July.

Full information and application blanks may be obtained from Dean H. E. Dysart, Director, Atlantic Summer School for Advanced Business Administration, P. O. Box 1321, Halifax, N. S.

FACULTIES AND COURSES

ARTS
SCIENCE
COMMERCE
ENGINEERING
JOURNALISM
PRE-PROFESSIONAL COURSES
HONOURS COURSES

COURSE NUMBERING SYSTEM

The present system of numbering was adopted in 1962. The 100 number signifies an introductory course normally taken in Freshman year which may not be taken in Junior or Senior year. The 200 number signifies an introductory or continuing course normally taken in Sophomore year. Such a course may not be taken in Junior or Senior year without the permission of the Dean of the Faculty and the department controlling the major concentration. The 300 number signifies advanced courses to be taken in Junior and Senior years. These are not normally open to Freshmen or Sophomores. The 400 number signifies honours courses normally open only to honours students. The 500 number signifies graduate courses.

Where a change has been made in the course number listed in the previous calendar, the present calendar shows the old course number in brackets after the new number.

ARTS

The curriculum in Arts is planned to lay the foundation of a broad and liberal education and to encourage at the same time some specialization in a specific branch of the Humanities or Social Sciences. It fosters an appreciation of what is sound in philosophy and beautiful in literature, and seeks to familiarize the student with the great facts and movements of history. In this, as in all courses, classes in religious and moral topics are essential requirements.

DEGREE OF BACHELOR OF ARTS

The requirements for the degree of Bachelor of Arts are as follows:

1. The completion of twenty-two courses subject to the regulations set forth in this Calendar.
2. The completion of the following prescribed courses:
 - (a) A minimum of two courses in Theology, or Theology 301 and an equivalent course for non-Catholic students. Catholic students will take one course in Theology each year they attend Saint Mary's University.
 - (b) Three courses in Philosophy.
 - (c) Two courses in English.
 - (d) Two courses in Latin and one course in a second foreign language
OR
 - (e) Three courses in one foreign language and a course in the Classics in translation.
 - (f) One course in History.
 - (g) One course in Mathematics.
 - (h) One Natural Science course (Chemistry, Physics, Biology, Geology).

3. A major concentration of work to the amount of not fewer than five courses in the one subject. Of these, a minimum of three courses must be advanced (300) courses.

A minor concentration of work to the amount of not fewer than two advanced (300) courses in the one subject. These supporting courses are to be in a subject allied or auxiliary to the major concentration.

At the end of Freshman year, students must decide their area of major and minor concentration so that prerequisite courses will be cared for in Sophomore year and proper registration assured.

The programme chosen to fulfill the requirements of the two-part concentration must have the approval of the department controlling the major concentration. Major concentrations for the Arts degree may be taken in English, French, History, Latin, Philosophy, Political Science, Sociology.

Six courses is the normal load in Freshman year and in Sophomore year. No student may carry more than five courses in either Junior year or Senior year except for extraordinary reasons and with the approval of the Dean of the Faculty concerned and the department of major concentration.

The following is an outline of the normal sequence of courses. Courses designated as "elective" are courses in the field of major concentration, and those approved as supporting minor courses.

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
Theology 101	Theology 202	Theology 303	Theology 304
English 101	English 202	Philosophy 302	Philosophy 303
Mathematics 101	Philosophy 201	Elective	Elective
Latin 101 (or Lang. 100)	Latin 202 and Lang. 100 (or Lang. 200 and 201)	(or Lang. 300)	Elective
History 101	Classics in Trans. 201)	Elective	Elective
Natural Science	Elective	Elective	

ARTS AND COMMERCE COURSE

Provided courses in Accounting 201 and Economics 202 have been completed concurrently with the requirements for a Bachelor of Arts degree, the degree of Bachelor of Commerce may be obtained in one additional year. The additional year consists of five full courses which will normally be Accounting 302, Business Administration 302, Commercial Law 201, Economics 306, Economics 307. All programs are subject to the approval of the Dean of Commerce.

SCIENCE

The curriculum in Science is designed to give the student a solid grasp of basic technological, scientific knowledge and methods, without at the same time sacrificing his liberal and cultural education. Therefore, courses in philosophy, religious and moral topics, the languages, find their place in the Saint Mary's Science programme as a broadening complement to Mathematics and the Natural Sciences.

DEGREE OF BACHELOR OF SCIENCE

The requirements for the degree of Bachelor of Science are as follows:

1. The completion of twenty-two courses subject to the regulations set forth in this Calendar.

2. The completion of the following prescribed courses:

- (a) A minimum of two courses in Theology, or Theology 301 and an equivalent course for non-Catholic students. Catholic students will take one course in Theology each year they attend Saint Mary's University.
- (b) Three courses in Philosophy.
- (c) Two courses in English.
- (d) Two courses in Mathematics.
- (e) Two courses in a foreign language at the University level. French and/or German are recommended.
- (f) A minimum of one course in Chemistry, one course in Physics, one course in Biology or Geology or Astronomy.

3. A major concentration of work to the amount of not fewer than five courses in the one subject. Of these, a minimum of three courses must be advanced (300) courses.

A minor concentration of work to the amount of not fewer than two advanced (300) courses in the one subject. These supporting courses are to be in a subject allied or auxiliary to the major concentration.

At the end of Freshman year students must decide their area of major and minor concentration so that prerequisite courses will be cared for in Sophomore year and proper registration assured.

The programme chosen to fulfill the requirements of the two-part concentration must have the approval of the department controlling the major concentration. Major concentrations for the Science degree may be taken in Chemistry, Physics, Biology, Geology, Mathematics.

Six courses is the normal load in Freshman year and in Sophomore year. No student may carry more than five courses in either Junior year or Senior year except for extraordinary reasons and with the approval of the Dean of the Faculty concerned and the department of major concentration.

The following is an outline of the normal sequence of courses. Courses designated as "elective" are courses in the concentration or major field, and those approved as supporting courses.

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
Theology 101	Theology 202	Theology 303	Theology 304
English 101	English 202	Philosophy 302	Philosophy 303
Natural Science	Philosophy 201	Elective	Elective
Mathematics 111	Mathematics 202	Elective	Elective
Language	Language	Elective	Elective
Natural Science	Natural Science		

ENGINEERING AND SCIENCE COURSE

Students who have obtained the Diploma in Engineering may proceed to the degree of Bachelor of Science on successful completion of a further year of study.

The programme of this additional (fourth) year will include: Theology 303 or 304, Philosophy 303, Mathematics 307, 408, or 310 and two electives from Chemistry 304, 306, 410, 411, Physics 304, 305, 307.

Students who plan to continue to the B.Sc., degree after the Diploma in Engineering should elect Philosophy 201 in second year, and may be permitted to substitute Philosophy 302 for Theology in the third year.

COMMERCE

The course leading to a degree of Bachelor of Commerce is offered to students who desire the advantage of higher education and wish, at the same time, to prepare themselves for a place in the business community, the public service, and professional life. The aim of the faculty is to combine the cultural aspects of education with the general principles of business.

Exemption from three years of in-service training and the primary, economics, and intermediate examinations of the Institute of Chartered Accountants of Nova Scotia is available to Commerce graduates who intend to become Chartered Accountants.

To gain the exemptions a mark of at least 60% must be made in each of the courses, Accounting 303, 304, 305, and Commercial Law 201.

The Registered Public Accountants' Association of Nova Scotia grants the following: "Bachelor of Commerce graduates from Saint Mary's University attaining a standard which in the opinion of the University faculty would qualify them for Intermediate exemption in the Certified Public Accountant's course will be granted this exemption by the Association".

Exemptions are also granted by the Society of Industrial and Cost Accountants of Nova Scotia to Commerce graduates who register in the Industrial Accounting course sponsored by the Society.

DEGREE OF BACHELOR OF COMMERCE

The requirements for the degree of Bachelor of Commerce are as follows:

1. The completion of twenty-two courses subject to the regulations set forth in this Calendar.
2. The completion of the following prescribed courses:

- (a) A minimum of two courses in Theology or Theology 301 and an equivalent course for non-Catholic students. Catholic students will take one course in Theology each year they attend Saint Mary's University.
- (b) Three courses in Philosophy.
- (c) Two courses in English.
- (d) One foreign language course at the University level. French is recommended.
- (e) Two courses in Accounting.
- (f) Two courses in Economics.
- (g) One course in Commercial Law.
- (h) One course in Mathematics.

3. A major concentration of work to the amount of not fewer than five courses in the one subject. Of these, a minimum of three courses must be advanced (300) courses.

A minor concentration of work to the amount of not fewer than two advanced (300) courses in the one subject. These supporting courses are to be in a subject allied or auxiliary to the major concentration.

At the end of Freshman year, students must decide their area of major and minor concentration so that prerequisite courses will be cared for in Sophomore year and proper registration assured.

The programme chosen to fulfill the requirements of the two-part concentration must have the approval of the Dean of Commerce and the department controlling the major concentration. Major concentrations for the Commerce degree may be taken in Accounting, Business Administration, and Economics.

Six courses is the normal load in Freshman year and in Sophomore year. No student may carry more than five courses in either Junior year or Senior year except for extraordinary reasons and with the approval of the Dean of the Faculty concerned and the department of major concentration.

The following is an outline of the normal sequence of courses.

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
Theology 101	Theology 202	Theology 303	Theology 304
English 101	English 202	Philosophy 302	Philosophy 303
Mathematics 101	Philosophy 201	Accounting 302	Elective
Language	Accounting 201	Elective	Elective
Economics 101	Economics 202	Elective	Elective
(or History 101)	Commercial Law 201		
Elective			

Note:

1. Political Science 201 is recommended for first year elective.
2. The Junior and Senior year electives will depend upon the area of concentration or major work. All programs are subject to the approval of the Dean of Commerce.

ARTS AND COMMERCE COURSE

For details of this programme see under 'Arts'.

ENGINEERING

For the Diploma in Engineering, the syllabus of studies is that prescribed by Nova Scotia Technical College for the first three years of its five-year course. The first three years are given only at the associated Universities, of which Saint Mary's is one, together with Acadia University, Dalhousie University, University of King's College, Memorial University, Mount Allison University and Saint Francis Xavier University.

With a Diploma in Engineering a student may enter without examination any of the departments of Engineering at the Nova Scotia Technical College, Laval University or McGill University, and obtain the Degree of Bachelor of Engineering (Civil, Electrical, Mechanical, Chemical, Metallurgical, or Mining) on the successful completion of the last two years of a five-year course.

DIPLOMA IN ENGINEERING

The requirements for the Diploma in Engineering are as follows:

FIRST YEAR	SECOND YEAR	THIRD YEAR
Theology 101	Theology 202	Theology 303
English 101	English 202	Mathematics 303
Mathematics 111	Mathematics 202a*	Physics 303
Physics 101	Mathematics 202b	Engineering 301*
Chemistry 101	Chemistry 202	Engineering 302
Engineering 101	Engineering 201*	—Engineering 303*
Engineering 102	—Engineering 202*	Engineering 304
	—Engineering 203*	Engineering 305
	Elective	

Note:

1. *indicates one semester courses. For details see 'Courses of Instruction'.

2. Non-Catholic students may replace requirements in Theology by elective courses in the Humanities or Social Sciences; at least two of these elected courses must be in the same subject.

3. Students who plan to enter Chemical Engineering at the Nova Scotia Technical College must substitute a course in organic chemistry (Chem. 304) for the second year elective.

4. Students who plan to enter Civil, Mining or Metallurgical Engineering at the Nova Scotia Technical College must substitute Geology 201 for the second year elective.

ARCHITECTURE

Saint Mary's University, in association with the Nova Scotia Technical College offers the first two years of a six year course in Architecture leading to a Bachelor of Architecture degree. Students who complete these two years and who have been recommended by the Dean of Engineering are admitted without further examination to the Third Year in the School of Architecture, Nova Scotia Technical College, Halifax, where they complete the four year professional phase of the curriculum. For the present, the course work for the two years in Architecture at Saint Mary's University is the same as that of the first two years in the Engineering Diploma Course.

ENGINEERING AND SCIENCE COURSE

For details of this programme see under 'Science'.

JOURNALISM

The curriculum of the School extends over four years and leads to the Diploma in Journalism. Students must complete the first three years of the regular Arts programme of the University (as outlined on page 46) and combine with this two non-credit Journalism courses; they are then eligible for admission to the professional training year, taken wholly at the School of Journalism.

The professional year consists of five courses and includes specialized work in journalism, radio and television, or public relations, according to the student's choice; or a general programme may be followed.

ARTS-JOURNALISM COURSE

Journalism students at Saint Mary's are usually advised to complete the requirement for the degree of Bachelor of Arts, in addition to the Diploma. If they do this, the professional year may be taken either before or after the Senior year of Arts, though it is recommended that it be taken after graduation.

PRE-PROFESSIONAL COURSES

Students who plan to enter the professions of theology, law, medicine, dentistry, etc., should see that their plan of studies includes courses prerequisite to entrance into the professional school of their choice. Calendars of professional schools may be consulted in the Office of the Registrar.

The sequence of pre-professional courses may, if necessary, replace the concentration or major requirements for the Bachelor's degree. Though not strictly required by some professional schools, Saint Mary's recommends complete matriculation in Arts, Science, or Commerce, and does not guarantee that timetable will allow the completion of minimum pre-professional requirements in less than the full time required for the Bachelor's degree.

Pre-Theology. Students who may wish to enter a theological seminary are advised to do major concentration work in Philosophy and/or Latin, supported by additional courses in languages and Social Sciences.

Pre-Law. Students planning to enter Law should do major concentration work in Philosophy or Social Science. Their programme should include at least two courses in History, Economics, or Political Science.

Pre-Medicine. Students who wish to apply for admission to medical schools in Canada or the United States are generally required to have complete matriculation in Arts or Science.

"College training in preparation for the study of medicine should provide the opportunity for a **good general education** including the attainment of competence in English. It should include theoretical and laboratory courses in Physics, Biology, and Inorganic and Organic Chemistry. At the present time the minimum requirement for admission to approved medical schools is three years of college training for the average student. For most students, four years is recommended in order to provide an opportunity to gain a broad educational experience." (Statement of the American Medical Association, December, 1951).

Credits in the sciences must include Biology 101, 202; Chemistry 101, 202, 304; Mathematics 101; Physics 101. Of the remaining eight courses (of a required minimum of fifteen courses), at least **seven** must be taken in the Humanities; English 101, 202, Philosophy 201, are required courses. At least two advanced courses must be included in the minimum programme.

Pre-Dentistry. Pre-dental students must complete a minimum of ten required courses which include the seven science courses listed above, along

with English 101, and two electives from English 202, French 101, German 101, History 101, Philosophy 201.

HONOURS COURSES

Students of above-average ability are urged to make application at the time of registration for Sophomore year to follow an honours programme and thus have their plan of studies controlled by the department concerned. At the invitation of the department of proposed honours work, the student may then register for honours at the beginning of Junior year. In order to begin an honours programme the student must have a 65% average in his previous work. The Junior-Senior programme will be under the supervision of the department concerned. Prescribed summer readings are required of honours students.

In general, the requirements for an Honours Degree are as follows:

1. The fulfilment of all regulations for the Bachelor's Degree.
2. The completion of not less than five courses prescribed by the department concerned.
3. The completion of an additional prescribed course in both Junior year and Senior year, thus making the total of twenty-four courses required for the honours degree. These special additional courses may be given in any way the department decides.
4. The passing of a comprehensive examination (written and/or oral) in all work of the honours field.
5. The attainment of not less than 70% in all courses in the honours field and in the comprehensive examination.

Candidates for an honours degree will normally be required to have spent four full-time academic years at Saint Mary's University.

GRADUATE COURSES

MASTER OF SOCIAL WORK

BACHELOR OF EDUCATION

**MASTER OF ARTS
IN EDUCATION**

SOCIAL WORK

The Maritime School of Social Work was incorporated in 1941 to meet an urgent need for trained social workers in the Maritime Provinces. The school is recognized by the Canadian Association of Social Workers and its graduates are accepted for membership.

Saint Mary's University, along with the Universities of Acadia, Mount Allison, Saint Francis Xavier, and University of King's College, grants the Master of Social Work degree to students who meet the requirements of the University and who are recommended for the degree by the Maritime School of Social Work.

DEGREE OF MASTER OF SOCIAL WORK

The academic requirement for admission to candidacy for the degree of Master of Social Work is a Bachelor of Arts degree with high standing, or equivalent university training.

Students planning graduate work in Social Work should, where possible, emphasize psychology or sociology in their undergraduate courses. It would be desirable to complete a major and minor in these disciplines. Courses should also be taken in Political Science (Government of Canada), Economics, Philosophy and Biology.

In the discretion of the Admissions Committee of the Maritime School of Social Work, applicants may be required to undertake work in these fields as a prerequisite to admission.

Further information regarding courses, requirements for admission, living costs and other matters, may be obtained by addressing: The Maritime School of Social Work, 6414 Coburg Road, Halifax, N. S.

EDUCATION

ADMISSION

For the degree of **Bachelor of Education**: Candidates must hold the degree of Bachelor of Arts, Science, or Commerce with second class honours or the equivalent. They must further satisfy the professional aptitude requirements of the Committee on Admissions.

The courses leading to the degree of **Master of Arts** is sponsored by the School of Education to provide teachers with graduate study in the

philosophical and psychological foundations of the art of teaching and in the particular fields of their own secondary teaching. Candidates therefore should hold the degree of Bachelor of Arts, Science or Commerce and the further degree of B.Ed. with second class honours or the equivalent. They must further satisfy the graduate requirements of the Committee on Admissions.

COURSES OF INSTRUCTION

ACCOUNTING	GEOLOGY
ARCHAEOLOGY AND ART	GERMAN
ASTRONOMY	GREGORIAN CHANT
BIOLOGY	HISTORY
BUSINESS ADMINISTRATION	HISTORY OF ART
CHEMISTRY	HISTORY OF SCIENCE
CLASSICS IN TRANSLATION	JOURNALISM
COMMERCIAL LAW	LATIN
ECONOMICS	MATHEMATICS
EDUCATION	PHILOSOPHY
ENGINEERING	PHYSICS
ENGLISH	POLITICAL SCIENCE
FRENCH	PSYCHOLOGY
	SOCIOLOGY
	THEOLOGY

NOTE: See explanation of Course Number System on page 44

ACCOUNTING

Accounting 201 (1):

A study of the accounting cycle. The application of accounting theory to business transactions. Journals, ledgers, working papers, and statements as applied to individual proprietorships, partnerships, and corporations.

TEXTS: *Principles of Accounting, Introductory* (Canadian Edition)—Finney and Miller (and Mitchell) (Prentice-Hall) Fifth Edition.

Principles of Accounting, Intermediate (Canadian Edition)—Finney and Miller (and Byrd) (Prentice-Hall) Fifth Edition.

Lectures: Three hours a week, two semesters.

Full course.

Laboratory: Two hours a week, two semesters.

Accounting 302 (2):

Prerequisite: Accounting 201.

An intensive study of asset, liability, and equity accounts. Year-end procedures, and the application of funds statement.

TEXT: *Principles of Accounting, Intermediate* (Canadian Edition)—Finney and Miller (and Byrd) (Prentice-Hall) Fifth Edition.

Lectures: Three hours a week, two semesters.

Full course.

Laboratory: Two hours a week, two semesters.

Accounting 303 (3):

Prerequisite: Accounting 201 and 302.

Advanced financial accounting—Partnerships; consolidations; mergers and reorganizations; branches, insurance; analysis of financial statements.

TEXT: *Principles of Accounting, Advanced*—Finney and Miller (Prentice-Hall).

Workbook—Principles of Accounting, Advanced—Finney and Miller (Prentice-Hall)

REFERENCE: *Accounting Systems*—Gillespie (Prentice-Hall)

Lectures: Three hours a week, two semesters.

Full course.

Accounting 304 (4):

Cost Accounting and Taxation.

Prerequisite: Accounting 201 and 302.

The principles, procedures, and managerial uses of cost accounting will be studied in the first term. The second term will be devoted to an intensive study of the Income Tax Act and its application to corporate and individual taxpayers.

TEXT: *Basic Cost Accounting*—Spechtrie (Prentice-Hall)
Canadian Income Tax for Accountants—Leonard (C.C.H. Canadian Limited)

Lectures: *Three hours a week, two semesters.*

Full course.

Accounting 305 (5):

Auditing.

Prerequisite: Accounting 201, 302.

Auditing principles and procedures. Verification and statement presentation of assets, liabilities, equity, and profit and loss accounts.

TEXTS: *Auditing Procedures*—Dell and Wilson (C.I.C.A.); *Auditing Principles*—H. Stettler (Prentice-Hall); *Bulletins of the Canadian Institute of Chartered Accountants*; *Audit reports, their nature and significance*—(C.I.C.A.); *Practice Case for Auditing*—Machine Products Co.—Newton and Stettler (Prentice-Hall)

Lectures: *Three hours a week, two semesters.*

Full course.

ARCHAEOLOGY AND ART

Archaeology and Art 201 (1):

Prerequisite: One University history course.

An outline of the prehistory and early history of the world and of the spread of civilization. Illustrated by slides and filmstrips.

TEXTS: *What Happened in History*—Childe (Penguin); *World Prehistory*—Clarke (Cambridge)

Lectures: *Two hours a week, two semesters.*

Full course.

ASTRONOMY

Astronomy 301 (1):

Descriptive Astronomy

Prerequisite: Mathematics 111, Physics 101, Chemistry 101.

Mechanical aspects: the earth in motion, time, light, the telescope. The solar system. Stellar astronomy. The systems; interstellar matter. Radio astronomy.

Note: Students who register for this course may not register for any other evening lectures as the laboratory periods may be on any evening of the week depending on the weather.

TEXTS: *Astronomy*—R. H. Baker (Van Nostrand) Seventh Edition; *The Observer's Handbook*, 1964 (R.A.S.C.)

Lectures: *Two hours a week, two semesters*

Full course.

Laboratory: *Two hours a week, two semesters.*

Astronomy 302 (2):

Celestial Mechanics

Prerequisite: Astronomy 301, Mathematics 303.

This course may be counted as an advanced mathematics credit.

Fundamental principles: questions of central forces, potential and attraction. Problems of two bodies; determination of orbits, consideration of perturbations. The general integrals of the problem of n bodies.

TEXT: *Fundamentals of Celestial Mechanics*—J. M. A. Danby (Macmillan)

REFERENCE: *An Introduction to Celestial Mechanics*—F. R. Moulton (Macmillan)

Lectures: *Three hours a week, two semesters.*

Full course.

Astronomy 302 (2):

Celestial Mechanics

Prerequisite: Astronomy 301, Mathematics 303.

This course may be counted as an advanced mathematics credit.

Fundamental principles: questions of central forces, potential and attraction. Problems of two bodies; determination of orbits, consideration of perturbations. The general integrals of the problem of n bodies.

TEXT: *Fundamentals of Celestial Mechanics*—J. M. A. Danby (Macmillan)

REFERENCE: *An Introduction to Celestial Mechanics*—F. R. Moulton (Macmillan)

Lectures: *Three hours a week, two semesters.*

Full course.

BIOLOGY

Biology 101 (1):

General Biology

An introductory study of the structure and function of living organisms, leading to an understanding of the principles of anatomy, physiology, ecology, genetics and evolution.

TEXT: *Biology*—Viltee (Saunders)

Lectures: *Three hours a week, two semesters.*

Full course.

Laboratory: *Three hours a week, two semesters.*

Biology 202 (2):

Comparative Anatomy of Chordates

Prerequisite: Biology 101.

A comparative study of the anatomy, embryology and evolution of the different classes of vertebrates, covering the integumentary, skeletal, muscular, nervous, digestive, respiratory, circulatory, urinogenital, and endocrine systems.

TEXT: *Evolution of Chordate Structure*—H. M. Smith (Holt)

Lectures: *Two hours a week, two semesters.*

Full course.

Laboratory: *Six hours a week, two semesters.*

Biology 203:

Vascular Plants

A descriptive and systematic study of ferns and flowering plants leading to a knowledge of the fundamental principles of their classification. Emphasis will be given to identification of the local flora.

TEXT: To be announced.

Vertebrates

A descriptive and systematic study of the five classes of vertebrates as a basic course for other courses (comparative anatomy, biology of fishes, embryology, etc.)

TEXT: To be announced.

Lectures: *Two hours a week, two semesters.*

Full course.

Laboratory: *Three hours a week, two semesters.*

Biology 301:

Invertebrates

Prerequisite: Biology 101.

The study of the structure, life history, parasitic relations to man and ecology of the main groups of land, fresh-water and marine invertebrates (with emphasis on the latter).

TEXT: To be announced.

Lectures: *Two hours a week, two semesters.*

Full course.

Laboratory: *Three hours a week, two semesters.*

Biology 302:

Cytology

Study of the microanatomy of the cells and tissues (epithelium, connective, blood, bone, muscle and nerve).

TEXT: To be announced.

Lectures: *Two hours a week, two semesters.*

Full course.

Laboratory: *Three hours a week, two semesters.*

Biology 303:

Biology of Fishes

A study of the embryology, anatomy, physiology and classification of the class fishes, covering the integumentary, skeletal, muscular, nervous, digestive, respiratory, circulatory, endocrine, excretory and reproductive systems.

In classification and geographical distribution, emphasis will be given to the marine fauna of the North Atlantic area and fresh-water species of Nova Scotia.

TEXT: To be announced.

Lectures: *Two hours a week, two semesters.*

Full course.

Laboratory: *Three hours a week, two semesters.*

Biology 304:

Genetics and Embryology

Study of the principles of inheritance and of their application to plant and animal breeding. Embryology of the vertebrates with emphasis on the development of the chick.

TEXT: To be announced.

Lectures: *Two hours a week, two semesters.*

Full course.

Laboratory: *Three hours a week, two semesters.*

Biology 305:

General Physiology

An introduction to the chemistry and physics of life, with particular emphasis on energy relations.

TEXT: To be announced.

Lectures: *Three hours a week, two semesters.*

Full course.

Laboratory: *Three hours a week, two semesters.*

BUSINESS ADMINISTRATION

Business Administration 301 (1):

An Introduction to Business

A case method study of three general areas of administration. Marketing, human relations, and labor relations will be discussed with reference to specific business situations. The emphasis will be on the qualitative aspects of executive decision.

TEXT: To be announced.

Lectures: *Three hours a week, two semesters.*

Full course.

Business Administration 302 (2):

Finance

Prerequisite: Accounting 201.

The Financial policies of large and small businesses are studied with heavy reliance on the case method of instruction.

Special attention is given to the timing, cost, marketing, and valuation problems of both major and day to day financial decisions.

TEXT: *Basic Business Finance—Text and Cases—*Hunt, Williams, Donaldson (Richard D. Irwin, Inc.)

Lectures: *Two hours a week, two semesters.*

Full course.

Business Administration 303 (3):

Principles of Control and Production

Prerequisite: Accounting 201.

Important procedures and techniques of the manufacturing process, and the quantitative data needed to formulate pricing, inventory, and investment decisions are examined, using descriptive notes and selected cases.

TEXT: To be announced.

Lectures: *Two hours a week, two semesters.*

Full course.

Business Administration 305 (5):

Written Analysis of Business Problems

Prerequisite. Two Business Administration courses.

The written presentation of solutions to advanced problems in all the important fields of business administration.

Equal attention will be given to English usage, clarity of expression and depth of analysis.

TEXT: To be announced.

Lectures: *On seminar basis by arrangement.*

Full course.

CHEMISTRY

Chemistry 101 (1):

General Chemistry

An introduction to fundamental principles; valence, molecular, ionic theories, reaction rates, equilibrium, the periodic table, radio activity and other basic phenomena.

TEXT: *Textbook of Chemistry*—J. V. Quagliano (Prentice-Hall) 5th Printing 1960

Lectures: *Three hours a week, two semesters.*

Full course.

Laboratory: *Three hours a week, two semesters.*

Chemistry 202 (2):

Elementary Physical and Analytical Chemistry

Prerequisite: Chemistry 101.

Theory and techniques of qualitative and quantitative analysis. Ionic equilibria, pH, phase equilibria.

TEXT: *Principles of Phase Equilibria*—Wetmore and LeRoy (McGraw-Hill)

Lectures: *Two hours a week, two semesters.*

Full course.

Laboratory: *Three hours a week, two semesters.*

Chemistry 304 (4):

Organic Chemistry

Prerequisite: Chemistry 101.

A comprehensive course of organic chemistry with accent on the accepted modern theories related to aliphatic and aromatic compounds.

TEXT: *Organic Chemistry*—Brewster & McEwan (Prentice-Hall) Senior Edition 1961

Lectures: *Two hours a week, two semesters.*

Full course.

Laboratory: *Three hours a week, two semesters.*

Chemistry 306 (6):

Physical Chemistry

Prerequisite. Mathematics 202, Chemistry 202.

States of matter, properties of solutions, heat of reaction, entropy and free energy, kinetics.

TEXT: *Physical Chemistry*—Daniels and Alberty (Wiley)

Lectures: *Three hours a week, two semesters.*

Full course.

Laboratory: *Three hours a week, two semesters.*

Chemistry 307 (7):

Advanced Quantitative Analysis

Prerequisite: Chemistry 202.

A comprehensive extension of Chemistry 2 with particular emphasis on advanced laboratory procedures used in inorganic analysis.

TEXT: *Textbook of Quantitative Analysis*—Kolthoff and Sandell (Macmillan).

Laboratory and Conferences:

Six hours a week, two semesters.

Full course.

Chemistry 308 (8):

Advanced Inorganic Chemistry

Periodic classification of the elements, and valence theory.

Lectures: Two hours a week, two semesters.

Full course.

Chemistry 315 (15):

Theory of Physical Chemistry Measurements

Prerequisite: Chemistry 202.

A course intended primarily for pre-medical students.

Lectures: Three hours a week, two semesters.

Full course.

Laboratory: Three hours a week, two semesters.

Chemistry 410 (10):

Organic Qualitative Analysis

A course covering the methods of detection and identification of fundamental organic chemical groups and compounds.

TEXT: *The Characterization of Organic Compounds*—McElvain (Macmillan) Revised Edition

Laboratory and Conferences:

Six hours a week, two semesters.

Full course.

Chemistry 411 (11):

Chemical Thermodynamics

Prerequisite: Chemistry 306.

Energy, heat, entropy, free energy changes. Electro-chemistry.

TEXT: *Chemical Thermodynamics*—Steiner

Lectures: Three hours a week, two semesters.

Full course.

Laboratory: Six hours a week, two semesters.

Chemistry 416 (16):

Advanced Organic Chemistry

Advanced concepts of organic chemistry, mechanisms, resonance theory, modern day theories and research study.

TEXTS: Reference Library

Lectures: Two hours a week, two semesters.

Full course.

Chemistry 419 (19):

Kinetic Theory

Prerequisite: Chemistry 306.

Lectures: Two hours a week, two semesters.

Full course.

CLASSICS IN TRANSLATION

Classics 201

The classical literature of Greece and Rome in translation. This course is required of all Arts students who are not taking Latin in their programme.

TEXT: To be announced.

Lectures: Three hours a week, two semesters.

Full course.

COMMERCIAL LAW

Commercial Law 201

Law and courts; contracts; negotiable instruments; real property; sale of goods; chattel mortgages; company structure; bankruptcy; Mechanics' Lien Act; partnership law; etc.

TEXTS: *Summary of Canadian Commercial Law*—Anger (Pitman and Sons); *Recent Cases and Materials in Business Law*—Stimson and Lazar (Houghton Mifflin)

Lectures: Three hours a week, two semesters.

Full course.

ECONOMICS

Economics 101 (1):

Economic History of Europe

The economic history of Europe from the Roman Empire to the present day. Manor system of the middle ages, guilds and mercantilism; laissez-faire, capitalism and industrial revolution; background of the 20th century.

TEXT: *Economic History of Modern Europe*—Friedlander and Oser (Prentice-Hall); *Rerum Novarum*—Leo XIII; *Quadragesimo Anno*—Pius XI; *Mater et Magistra*—John XXIII.

Lectures: Three hours a week, two semesters.

Full course.

Economics 202 (2):

General Principles of Economics

This course is a prerequisite for Economics 306, 307, 408, 409.

Difference between free enterprise and socialist economics; national income, its determinants and fluctuations; the role of Government in Economics; fluctuations of the business cycle; the function of money and banking systems; pricing of the production factors; current events.

TEXTS: *Principles of Economics*—Salmuelson (McGraw-Hill); *Rerum Novarum*—Leo XIII; *Quadragesimo Anno*—Pius XI; *Mater et Magistra*—John XXIII.

Lectures: Three hours a week, two semesters.

Full course.

Economics 303 (3):*Business and Economic Statistics*

Functions of statistics; statistical enquiries; analysis and tabulation; error in derived statistics; presentation techniques; measures of average and dispersion; time series; index numbers; correlation; sampling; probability; sources of statistics.

TEXTS: *Statistics for Economists*—R. G. D. Allen (Hilliary); *Canada Yearbook, 1963* (Queen's Printer); other texts and reading to be announced during course.

Lectures: Three hours a week, two semesters.

Full course.

Economics 304 (4):*Economic History of Canada and the United States*

Economic aspects of American history from the Revolution to the New Deal.

Canadian economic history; fisheries, fur trade, timber trade; railways and confederation; the St. Lawrence canals. The strategy of development; wheat economy; new industrialism; St. Lawrence Seaway.

TEXTS: *American Economic History*—Faulkner (Harper); *Canadian Economic History*—W. T. Easterbrook and Hugh G. J. Aitken (Macmillan)

Lectures: Three hours a week, two semesters.

Full course.

Regular compulsory assignments.

Economics 306 (6):*Advanced Economic Analysis*

Prerequisite: Economics 202.

Scope and method of economic science; national income; consumption theory; production theory; price determination; factor combination, wages, interest, rent and profits; interdependence of the elements of the system.

TEXT: *A Textbook of Economic Theory*—Stonier and Hague (Longmans). General reading will be recommended during course.

Lectures: Three hours a week, two semesters.

Full course.

Economics 307 (7):*Money, Banking, International Payment.*

Prerequisite: Economics 202.

Money, its standards, supply and value; inflation and foreign exchange; Canadian Banking System and other banking systems; public finance; international monetary problems and their solutions; developments in international trade.

TEXT: *Capita Selecta*—J. J. Vorstermans

Lectures: Three hours a week, two semesters.

Full course.

Economics 408 (8):*Business Cycle Theory*

Prerequisite: Economics 202, 307.

Description, history and measurement of the business cycle; theories, of the business cycle; control, domestic and international, of excessive business fluctuations.

TEXTS: *Prosperity and Depression*—Haberler (United Nations); *Business Cycles*—Hamberg (Macmillan). General reading will be recommended during course.

Lectures: *Three hours a week, two semesters.*

Full course.

Economics 409 (9):

Applied Economics.

Prerequisite: Economics 202, 303, 306, 307.

Comparative economic systems; determinants of economic growth; underdeveloped countries and depressed areas within developed countries; concentration of industry and control of monopoly and restrictive practices; agricultural problems; economics of public utilities; distribution of national income.

TEXTS: *The Canadian Economy, Selected Readings*—Deutch *et al* (Macmillan); *Stages of Economic Growth*—Rostow (Cambridge); *Economies of the World Today*—Wilcox *et al* (Harcourt, Brace); *Economic Principles and Public Issues*—Oxenfelt (Holt). General reading will be recommended during the course.

Lectures: *Three hours a week, two semesters.*

Full course.

EDUCATION

Education 401:

History and Philosophy of Education

A fundamental study of the nature and aims of Education from ancient to contemporary systems culminating in the formulation of a truly humanistic Philosophy of Education for modern times.

Lectures: *Three hours a week, two semesters.*

Full course.

Education 402:

Psychology of Education

Prerequisite: Psychology 201.

A study of the nature, equipment, growth, development, evaluation and adjustment of the learner.

TEXTS: *Educational Psychology*—Kelly (Bruce)

Lectures: *Three hours a week, two semesters.*

Full course

Education 403:

General and Special Methods of Teaching

The application of the elementary principles of Philosophy and Psychology of Education to the organization and presentation of subject matter in the classroom.

Lectures: *Three hours a week, two semesters.*

Full course.

Education 404:*History of Education*

The general outline of the history of educational ideas with emphasis upon modern theories.

Lectures: Three hours a week, two semesters.

Full course.

Education 405:*Practice Teaching*

One hundred hours of observation and practice teaching in the public school system.

Education 407*Sociology of Education*

The principles connecting the social, political and economic life of the community with the education of their young.

Lectures: Three hours a week, two semesters.

Full course.

GRADUATE COURSES

Philosophy 511:*The Metaphysics of Love*

A seminar and lecture course on the cultural significance of the metaphysics of love.

Sessions: Three hours a week, two semesters.

Full course.

Philosophy 521:*The Metaphysics of Thought*

A seminar and lecture course in the development of epistemological theory.

Sessions: Three hours a week, two semesters.

Full course.

Philosophy 531T:

A tutorial course to be adapted to the special requirements of candidates specializing in philosophical research.

Psychology 512:*Psychology of Communication*

A seminar and lecture course in the epistemological and psychological problems involved in inter-personal relations.

Sessions: Three hours a week, two semesters.

Full course.

Psychology 522T:

A tutorial course to be adapted to the special requirements of candidates specializing in psychological research.

English 514:

British Literature for Teachers

The cultural background and methodology for the teaching of high school English.

Sessions: Three hours a week, two semesters.

Full course.

English 524:

Philosophy of Drama

A seminar course in the source, nature and purpose of the modern drama.

Sessions: Three hours a week, two semesters.

Full course.

English 534T:

A tutorial course to be adapted to the special requirements of candidates specializing in literary research.

Research Methods 510:

Graduate research seminar

A seminar in research techniques culminating in the presentation and defence of theses.

Sessions: One hour a week, two semesters.

Full course.

Sociology 523:

Advanced Sociology of Education

This is a seminar and lecture course on various phases of the social context of education.

Sessions: Three hours a week, two semesters.

Full course.

Education 519:

Educational Administration

A seminar and lecture course analyzing the executive requirements for institutional direction.

Sessions: Three hours a week, two semesters.

Full course.

Education 529:

Educational Supervision

A seminar and lecture course in the requirements for the direction of teachers, courses, and student development in the public school.

Sessions: Three hours a week, two semesters.

Full course.

ENGINEERING

Engineering 101:

Engineering Drawing

An introductory course in drawing, the use of the slide rule and other aids to calculation; orthographic projection, sectioning and auxiliary views; lettering. Theoretical work designed to lead directly into Engineering 201 (Descriptive Geometry).

TEXTS: *Engineering Drawing*—Luzader (Prentice-Hall); *Lessons in Lettering, Book I*—French and Turnbull (McGraw-Hill); *Problems in Engineering Drawing*—Luzader.

Lectures and Laboratory: Three hours a week, two semesters.

Engineering 102:

Surveying

Care and use of instruments, surveying methods; measurement of distance, difference in elevation, direction angles. The elements of circular and vertical curves; applications of astronomy to engineering. Course credit requires the successful completion of Survey Camp.

TEXT: *Elementary Surveying*—Davis (McGraw-Hill)

Lectures: Three hours a week, two semesters.

Engineering 103:

Survey Camp

Prerequisite: Engineering 102

Survey course applied to practical surveying problems; the orderly compilation and recording of survey data. Transit and tape surveys, curve layouts, plane table work, astronomical observations.

TEXTS: *Elementary Surveying*—Davis (McGraw-Hill); *Surveyors' Field Note Forms*—Bardsley and Carlton (International Textbook Company)

Three weeks field course immediately following spring term.

Engineering 201:

Descriptive Geometry

Prerequisite: Engineering Drawing.

Problems on points, lines; plane and warped surfaces and development. Practical application of descriptive geometry as an engineering tool; problems related to construction, topographical, geological and mining applications.

TEXTS: *Applied Descriptive Geometry*—Warner and McNeary (McGraw-Hill); *Applied Descriptive Geometry Problems*—Warner and Douglass (McGraw-Hill)

Lectures: One hour a week, one semester.
Laboratory: Three hours a week, one semester.

Engineering 202

Thermodynamics

Prerequisite: Physics 101, Mathematics 202 (concurrently.)

Energy in general and the laws of thermodynamics; non-flow and steady-flow equations with applications; Carnot cycle and development of the entropy concept; steam power plants, refrigeration.

TEXTS: *Thermodynamics*—Durham (Prentice-Hall)

Lectures: Three hours a week, one semester.

Engineering 203:

Graphic Statics

Prerequisite: Engineering 101, Mathematics 202 (concurrently.)

Equilibrium polygon and polygonal frames for all systems of loads; graphical representation of shear and moment for non-continuous beams; roof trusses, bents including dead and live loads with fixed ends and ends on rollers; simple cantilevers.

TEXT: *Mechanics for Engineers*—Beer and Johnson (McGraw-Hill)

Lectures: Two hours a week, one semester.

Laboratory: Three hours a week, one semester.

Engineering 301:

Kinematics

Prerequisite: Engineering 101, Mathematics 101.

Displacement diagrams for linkages, instant centres, layout and drawing of some common mechanisms. Velocity determinations for linkages using instant centres and velocity vectors. Acceleration determination with the use of acceleration diagrams, Coriolis acceleration. Solution of velocity problems by analytical methods.

TEXTS: *Kinematics of Machines*—Hinkle (Prentice-Hall); *Problems in Kinematics*—Hinkle (Prentice-Hall)

Lectures: Two hours a week, one semester.

Laboratory: Three hours a week, one semester.

Engineering 302:

Applied Mechanics

Prerequisite: Mathematics 202, Mathematics 303 (concurrently.)

Force, friction, determination of centroids and moments of inertia. Rectilinear, curvilinear and rotational motion of particles and solid bodies; work, energy and power, impulse of momentum.

TEXT: *Mechanics for Engineers*—Beer and Johnson (McGraw-Hill)

Lectures: Three hours a week, two semesters.

Engineering 303:

Fluid Mechanics

Prerequisite: Mathematics 202.

A study of fluid mechanics fundamentals based on an engineering science approach to compressible and incompressible fluids. Fluid properties and characteristics; fluid statics; conservation of mass and energy; Euler's equation of motion and Bernoulli's equation; impulse momentum in steady flow; and an introduction to the boundary layer concept.

TEXT: *Principles of Fluid Mechanics*—Kenyon (Ronald)

Lectures: Three hours a week, one semester.

Laboratory: Three hours a week, one semester.

Engineering 304:

Materials

Prerequisite: Mathematics 303 (may be taken concurrently).

An analytical treatment of stress-strain relationships for tension, compression and shear; torsion in shafts; shear and moment and stresses in beams; and statically indeterminate problems.

Physical properties of common materials used in structures and machines; their manufacture and fabrication. Testing machines and standard tests.

TEXT: *Mechanics of Materials*—Popov (Prentice-Hall)

Lectures: Three hours a week, two semesters.

Engineering 305:

Electric Circuits

Prerequisite: Mathematics 202, Physics 303 (concurrently).

Circuit elements; Ohm's Law, Kirchhoff's Laws, equilibrium equations (mesh and node); the principle of duality; network theorems; energy and power; complex impedance and the use of phasors; steady state analysis of circuits; two-terminal networks; two-terminal-pair networks and basic measurements.

TEXT: *Electrical Engineering Circuits*—H. H. Skilling (Wiley)

REFERENCE: *Networks, Lines and Fields*—J. D. Ryder.

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

ENGLISH

N. B. Students intending to complete Honour's requirements must take courses numbered 303 to 308 inclusive in their Junior and Senior years.

Special English:

Instruction is given in grammar, syntax, punctuation, etc. This course is obligatory for students whose ranks in the English placement test are below average; no credit is given any University English course until this special course is successfully passed.

Lectures: Two hours a week, two semesters.

No course credit.

English 101 (1):

Survey of English Literature: From Anglo-Saxon to the twentieth century. Selected readings in poetry and prose. One play of Shakespeare.

Composition and Speech: Compulsory theme writing. Public Speaking attendance and participation are compulsory.

TEXTS: *English Literature*—Clark, Dickinson, Hudson and Pace (Bret-Macmillan); *Pocket Dictionary and Thesaurus*.

Lectures: Four hours a week, two semesters. Full course.

English 202 (2):

Introduction to major literary forms.

TEXTS: *Palgrave's Golden Treasury*, *The Portable Milton*, *Gulliver's Travels*, *Wuthering Heights*, *Heart of Darkness*. Other texts to be announced.

Lectures: Four hours a week, two semesters. Full course.

English 303 (3):

The Prose and Poetry of the English Renaissance; An examination of the age and its non-dramatic literature.

Composition: Formal writing, an examination of the principles and techniques of research writing. Term papers will be required.

TEXTS: *Tudor Prose and Poetry*—Hebel, Hudson (Appleton-Century); *Seventeenth Century Prose and Verse*—White, Wallerstein and Quintana (Bret-Macmillan).

Students are advised to see the department for summer reading.

Lectures: Three hours a week, two semesters. Full course.

ENGLISH 304 (4):

Dramatic Literature of the English Renaissance

Composition: Formal writing, an examination of the principles and techniques of research writing. Term papers will be required.

TEXTS: Shakespeare; *Typical Elizabethan Plays*—Schelling and Black (Harper)

Students are advised to see the department for summer reading.

Lectures: Three hours a week, two semesters. Full course.

English 305 (5):

English Neoclassicism; a study of Restoration and Eighteenth Century Literature.

Composition: Formal term papers, critical analyses.

TEXTS: *Eighteenth Century Prose and Poetry*—Bredvold, McKillop and Whitney (Ronald Press)

Students are advised to see the department for summer reading.

Lectures: Three hours a week, two semesters. Full course.

English 306 (6):

Pre-Romantic and Romantic English Literature: A study of the prose and poetry of the late eighteenth and early nineteenth centuries.

Composition: Formal term papers, critical analyses.

TEXTS: *English Romantic Poetry and Prose*—Noyes (Oxford)

Students are advised to see the department for summer reading.

Lectures: Three hours a week, two semesters.

Full course.

English 307 (7):

English Literature of the Victorian Age. Poetry: Tennyson, Arnold and Browning. Prose: Carlyle, Newman, Ruskin, Morris and Arnold.

Composition: Formal term papers, critical analyses.

TEXTS: *Victorian Prose*—Harold and Templeman

Poetry, paperback editions of the authors.

Lectures: Three hours a week, two semesters.

Full course.

English 308 (8):

Middle English. An examination of the language and literature of Chaucer and his contemporaries, English and Scottish.

Composition: Formal term papers, critical analyses.

TEXTS: To be announced.

Lectures: Three hours a week, two semesters.

Full course.

English 309 (9):

Introduction to Literary Criticism.

Prerequisite: three University English courses.

A review of the major phases and tendencies in the development of literary theory, instruction in the techniques of practical criticism, and close analysis of prescribed literary texts.

TEXTS: *Literary Criticism: A Short History*—Wimsatt & Brooks

Anthology of English Verse—Hayward.

Lectures: Three hours a week, two semesters.

Full course.

English 310 (10):

Prerequisite: English 1 and 2.

Twentieth Century Literature: Analysis and criticism; dramas, poetry, essays, short stories, novels.

Composition: Essays, formal and informal, imitative of modern trends in style; speeches, debates, radio talks.

TEXTS: *Four Modern Plays*—Ibsen, Shaw, O'Neill, Miller (Rinehart)

The Waste Land and Other Poems—T. S. Eliot (Faber and Faber)

Modern Verse—Jones (Oxford Univ. Press); *Short Story Masterpieces*

Warren and Erskine (Dell); Library.

Lectures: Three hours a week, two semesters.

Full course.

English 311 (11):

Prerequisite: Two University English courses.

Comedies of Shakespeare: Seven prescribed plays. The Sonnets of Shakespeare. Weekly themes assigned on the background of Shakespeare, the theatre of his time, critical studies of the comedies.

Lectures: Three hours a week, two semesters.

Full course.

English 312 (12):

Prerequisite: Two University English courses.

The Novel: Historical development of the English novel. Critical book reports on authors studied. First semester: Defoe to Dickens. Second semester: Thackeray to twentieth century.

Prospective students must consult instructor and arrange for summer reading.

Lectures: Three hours a week, two semesters.

Full course.

English 313 (13):

Shakespearean Tragedy

Hamlet, Othello, King Lear, Macbeth, Timon of Athens. Themes assigned on the life of Shakespeare. The Theatre of his time, critical studies of the tragedies.

TEXTS: Complete works of Shakespeare. Bradley's *Shakespearean Tragedy*. What Happens in Hamlet—J. Dover Wilson.

Lectures: Three hours a week, two semesters.

Full course.

English 314:

Modern Poetry: An examination of the development of modern poetry. Attention will be given to foreign influence and relevant criticism. Work will be concentrated on Hopkins, Yeats, Pound, Eliot and Auden.

Students wishing to enroll in this course shall be required to do preparatory reading.

TEXTS: To be announced.

Lectures: Three hours a week, two semesters.

Full course.

English 315:

Modern British Drama and Fiction: A study of important modern literature with special reference to Wilde, Shaw, Synge, O'Casey, James, Conrad, Forster, Lawrence, Joyce, T. S. Eliot, Fry, Huxley, Waugh, Cary, Golding and Murdoch.

TEXTS: To be announced.

Lectures: Three hours a week, two semesters.

Full course.

FRENCH

French 101:

A first year college course for beginners. A rapid survey of French grammar along with composition and translation designed to provide the student with a foundation in the understanding and active use of spoken French. Credit will be given only on completion of French 201.

TEXT: *A Conversational Introduction to French*—Heise and Muller (Dodd, Mead)

Lectures: *Three hours a week, two semesters.*

Full course.

French 102:

Prerequisite: Matriculation French.

The course comprises (a) intensive practice in spoken and written French; (b) an introduction to literary French through selected readings. Students are required to pass an oral and written examination at the end of each semester. Use of the language laboratory is a required part of the course.

TEXT: *Oral and Written French*—Stack (Oxford)

Lectures: *Three hours a week, two semesters.*

Full course.

Laboratory: *Three half hours a week, two semesters.*

French 201:

Prerequisite: French 101.

A continuing basic course in French for those who have begun study of the language in College. On successful completion of this course, students will be permitted to take French 202.

TEXT: *A Conversational Introduction to French*—Heise and Muller (Dodd, Mead)

Lectures: *Three hours a week, two semesters.*

Full course.

French 202:

Prerequisite: French 102.

A course in advanced composition and translation. A study is made of selected literary works. Students are required to pass an oral and written examination at the end of each semester.

TEXTS: *Cours de langue et de civilisation française, Vol. IV: La France et ses écrivains*—G. Mauger (Hachett); *French Review Grammar*—Dondo and Ernst (Holt & Co.); *Harrap's Concise French English Dictionary*.

Lectures: *Three hours a week, two semesters.*

Full course.

Arrangements will be made for classes in spoken French.

French 303 (3):

An Introduction to the History of French Literature

Prerequisite: French 202.

This course is a prerequisite for French 304 to 306 inclusive. The lectures are given in French.

TEXTS: *IV La France et ses écrivains*—G. Mauger (Hachette); *Lectures Classiques et Modernes*—Michaud (Odyssey Press).

Lectures: *Literature, two hours a week, two semesters.*

Full course.

Composition, one hour a week, two semesters.

French 304 (4):

French Literature: From the Romantics to the Present Day

The lectures are given in French.

TEXTS: *Manuel des Etudes Littéraires Françaises, XIXe siècle, XXe siècle*—P. Castex & P. Surer (Hachette)

Lectures: *Three hours a week, two semesters.*

Full course.

French 305 (5):

French Literature: From the Renaissance to the Revolution

The lectures are given in French.

TEXTS: *Manuel, XVIe siècle, XVIIe siècle, XVIIIe siècle*—P. Castex & P. Surer (Hachette)

Lectures: *Three hours a week, two semesters.*

Full course.

French 306 (6):

French Literature: The Middle Ages

The lectures are given in French.

TEXT: *Manuel, Moyen Age*—P. Castex & P. Surer

Lectures: *Three hours a week, two semesters.*

Full course.

GEOLOGY

Geology 201 (1):

General Geology

The earth as a planet; igneous activity; weathering and erosion; sedimentation; earth movements; metamorphism; economic minerals. Historical Geology; the history of Geology.

TEXTS: *Principles of Geology*—Gilluly, Waters and Woodford (Freeman)

Lectures: *Three hours a week, two semesters.*

Full course.

Laboratory or field work: *Three hours a week, two semesters.*

Geology 202 (2):

Mineralogy

Crystallography; atomic structure of crystals; morphological classification of crystals. Chemical mineralogy; determinative mineralogy; occurrence and associations of minerals.

TEXT: *Mineralogy*—Kraus, Hunt and Ramsdell (McGraw-Hill) Fifth Edition

REFERENCES: *Mineralogy*—Berry and Mason (Freeman); *Dana's Mineralogy*—Palache et al (Wiley)

Lectures: *Three hours a week, two semesters.*

Full course.

Laboratory or field work: *Three hours a week, two semesters.*

Geology 303 (3):

Optical Mineralogy and Petrology

Prerequisite: Physics 101, Chemistry 101, Geology 202.

The optical properties of minerals. The description and interpretation of igneous, sedimentary, and metamorphic rocks.

TEXTS: *Optical Mineralogy*—Kerr; *Principles of Petrology*—Tyrell.

Lectures: *Three hours a week, two semesters.*

Full course.

Laboratory: *Three hours a week, two semesters.*

Geology 304 (4):

Historical Geology

Prerequisite: Geology 201.

The history of the evolution of the North American continent as recorded by the sedimentary rocks, by the fossils they contain, and by the evolution of mountain ranges.

TEXT: *The Geological Evolution of North America*—Clark and Stearns.

REFERENCES: *Structural Geology of North America*—Eardley; *Geology and Economic Minerals of Canada*—Econ. Geol. Series No. 1, Geological Survey of Canada.

Lectures: *Three hours a week, two semesters.*

Full course.

Laboratory: *Three hours a week, two semesters.*

GERMAN

German 101:

This is an intensive course designed to give a solid foundation in basic German grammar and a sufficient acquaintance with the language for it to be read with some facility. Special attention will be given to oral exercises. Credit will be given only on completion of German 201.

TEXTS: *Elementary German*—Erika Meyer (Houghton Mifflin); *Schweitzer*—Goedsche and Glaetli (American Book Co.); *Lebendiges Deutschland*—Meessen & Blohm (Ginn)

Lectures: Three hours a week, two semesters.

Full course.

German 102:

Prerequisite: Matriculation German.

The work includes the reading of texts as introduction to literary language and the study of grammar and syntax. Oral work is emphasized.

TEXTS: Grammar to be announced. *Classified Revision Exercises in German*—Corbett & Eichele (Harrap); *Schnitzler, Rafka, Mann—Hatfield & Stein* (Houghton Mifflin)

Lectures: Three hours a week, two semesters.

Full course.

German 201:

Prerequisite: German 101.

A general review of basic German for those who have begun study of the language in College. The work includes the reading of texts and the study of grammar and syntax. Emphasis will be laid on oral expression. On successful completion of this course, students will be permitted to take German 202.

TEXTS: *German in Review*—Röseler (Holt); *Der Spanische Rosenstock—Bergengruen* (Heinemann); *Stimmen der Zeit*—Gaede & Coogan (Holt)

Lectures: Three hours a week, two semesters.

Full course.

German 202:

Prerequisite: German 102.

The aim of this course is to familiarize the students with the artistic qualities of German literary prose. Advanced grammar and syntax will be studied and short essays written. Emphasis will be laid on oral exercises.

TEXTS: *Simpler German Course for First Examinations*—A. & L. J. Russon (Longmans); *Die Kunst der Prosa*—O. L. & E. M. Fleissner (Croft); *Im Geist der Gegenwart*—McCluney (Oxford).

Lectures: Three hours a week, two semesters.

Full course.

German 303:

Prerequisite: German 102 and 202.

Advanced German. In addition to language study the course will include the reading of German Texts of the 19th and 20th century. Articles from recent issues of German newspapers and magazines will be read and discussed in German.

Students will require a dictionary.

TEXTS: *Advanced German Composition*—Bithell (Methuen); *Tausend Jahre deutscher Dichters Dichtung*—Faber du Four (Pantheon); *Goethe, Urfaust*—ed. Samuel (Macmillan); *Schiller—Dramen* (Goldmann's Gelbe Taschenausgabe) *Unordnung und Frahes Leid*—Thomas Mann (Hold, Rinehart, Winston)

Lectures: Three hours a week, two semesters.

Full course.

GREGORIAN CHANT

N. B. With permission of the Dean these courses may replace required Theology courses.

Gregorian Chant 101 (1):

The study and practice of solfeggio, syllabic, and neumatic chants on Gregorian and modern notation. Hymnody: sight reading of congregational hymns and three part equal voice motets. Liturgy: study of Papal documents on Church music and liturgy.

TEXTS: *Liber Brevior* (Gergorian Institute of America); *Cantate Domino* (Rossini).

Lectures: Two hours a week, two semesters.

Full course.

Practice: Two hours a week by arrangement.

Gregorian Chant 202 (2):

An intensive study of modality, elementary chironomy, melismatic chants. Polyphony: three and four part equal voice motets.

TEXTS: as for Gregorian Chant 1.

Lectures: Two hours a week, two semesters.

Full course.

Practice: Two hours a week by arrangement.

HISTORY

History 101 (1):

Survey of European History

A survey of European History from the fall of the Roman Empire to the present day.

TEXT: *A Survey of European Civilization*—Ferguson, Brunn (Houghton Mifflin)

Lectures: *Three hours a week, two semesters.*

Full course.

History 202 (2):

Survey of Canadian History

Prerequisite: One University history course.

The history of Canada; a general survey with special emphasis on the nineteenth and twentieth centuries.

TEXT: *Canada*—Edgar McInnis (Rinehart)

Lectures: *Three hours a week, two semesters.*

Full course.

History 205 (5):

United States, 1776-present

Prerequisite: One University history course.

The history of the United States, 1776 to the present day.

TEXT: To be announced.

Lectures: *Two hours a week, two semesters.*

Full course.

History 303 (3):

Tudor and Stuart England

Prerequisite: One University history course.

The history of England under the Tudors and Stuarts.

TEXT: To be announced.

Lectures: *Two hours a week, two semesters.*

Full course.

History 304 (4):

Europe, 1815-1939

Prerequisite: One University history course.

The history of Europe, 1815-1939; particular emphasis will be placed on international relations 1870-1939.

TEXT: *Contemporary Europe since 1870*—Carleton J. Hayes (Macmillan).

Lectures: *Two hours a week, two semesters.*

Full course.

History 306 (6):

Europe, 1648-1815

Prerequisite: One University history course.

The history of Europe from 1648 to 1815, with special emphasis on the history of France.

TEXT: To be announced.

Lectures: *Three hours a week, two semesters.*

Full course.

History 309 (9):

Renaissance and Reformation

Prerequisite: One University history course.

TEXT: To be announced.

Seminar: *Two hours a week, two semesters.*

Full course.

History 311:

History of Medieval England

Emphasis on the constitutional development and on church-state relations.

TEXTS: *From Alfred to Henry III—C. Brooke (Nelson); The Later Middle Ages—G. Holmes (Nelson)*

Lectures: *Two hours a week, two semesters.*

Full course.

History 312:

History of Medieval Europe

A survey of the main events of medieval European history, with an emphasis upon intellectual and cultural aspects.

TEXT: To be announced.

Lectures: *Two hours a week, two semesters.*

Full course.

History 408 (8):

Age of the Enlightenment in France

Prerequisite: One University history course. Normally History 306 will be required.

A history of ideas in France, 1685-1789.

TEXT: Selected writings of the leading thinkers of the age.

Seminar: *Two hours a week, two semesters.*

Full course.

HISTORY OF ART

History of Art 301 (1):

Prehistoric art; the art of Ancient Egypt, Crete; Classical Greek and Roman art; Early Christian Art; the Romanesque and Gothic era; the Art of Northern Europe; the Italian Renaissance.

TEXTS and READINGS: *The Magic of Art*—A. Czakó (Pageant Press, New York); *History of World Art*—Upjohn, Wingert, Mahler (Oxford Univ. Press) Second Edition; *Histoire de l'art*, Vol. I-II—P. Lavedan (Presses Universitaires de France, Paris); *Geschichte der Kunst*, Vol. I-II—R. Hamann (München)

FOR ILLUSTRATIONS: *Key Monuments of the History of Art*—H. W. Janson (Prentice-Hall)

Lectures: *Three hours a week, two semesters.*

Full course.

History of Art 302 (2):

Mannerism; the Age of the Baroque and Rococo; Flemish and Dutch art; Neo-classicism; Romanticism; Impressionism, Neo-impressionism; Expressionism; the art of the 20th century.

TEXTS and READINGS: As for History of Art 1

Lectures: *Three hours a week, two semesters.*

Full course.

HISTORY OF SCIENCE

History of Science 301 (1):

An outline of scientific progress prior to the Black Death in Babylonia, Egypt, Ionia, Greece, Alexandria, the Roman World, the Byzantine Empire, the Arab World, and Western Europe.

TEXT: *A Short History of Science*—Sedgwick, Tyler and Bigelow (Macmillan)

REFERENCES: *A History of Science: Ancient Science Through the Golden Age of Greece*—Sarton; *A History of Science: Hellenistic Science and Culture in the Last Three Centuries B. C.*—Sarton.

Lectures: *Two hours a week, two semesters.*

Full course.

History of Science 302 (2):

The influence of the scientific background on literature and political thought, from the Black Death to the Age of Printing, and, century by century to the twentieth century.

TEXT: *A History of Thought Until 1900*—Singer (Oxford)

REFERENCES: *The History of Astronomy*—Abetti; *The History of Biology*—Nordenskiöld; *A History of Chemistry*—Brown; *History of Mathematics*—Ball; *A Short History of Medicine*—Singer; *The Rise of Modern Physics*—Crew

Lectures: *Two hours a week, two semesters.*

Full course.

JOURNALISM

Consult Registrar's Office or School of Journalism for details of courses.

LATIN

Latin 101:

A first year college course for those beginning the study of Latin. A rapid study is made of Latin grammar and syntax, along with composition and passages for translation. Credit will be given on completion of Latin 201.

TEXT: *Latin Course for Schools, Parts I and II*—Wilding (Faber and Faber)

Lectures: *Three hours a week, two semesters.*

Full course.

Latin 102:

Prerequisite: Matriculation Latin.

A thorough study of Latin syntax. Literature: Cicero's *Pro Archia*.

TEXT: *Latin Course for Schools, Part III*—Wilding (Faber and Faber)

Lectures: *Three hours a week, two semesters.*

Full course

Latin 201:

A continuing basic course in Latin for those who have begun the study of Latin in College. On successful completion of this course, students may be permitted to take Latin 202.

TEXT: *Latin Course for Schools, Parts II and III*—Wilding (Faber and Faber); selections from Cicero, Ovid, Livy.

Lectures: *Three hours a week, two semesters.*

Full course.

Latin 202:

Introduction to Latin Epic Poetry: Emphasis is placed on the exact rendering of the thought content into idiomatic English. Prose composition stresses the correct translation of idiomatic English into Latin.

TEXTS: *Aeneid II, VI*—Virgil (Other parts of the *Aeneid* in translations); *Pro Lege Manilia, Cicero*; *Bradley's Arnold*, Prose Composition, Ex. 1-28.

Lectures: *Three hours a week, two semesters.*

Full course.

Latin 303 (3):

Prerequisite: Latin 202.

A critical analysis and appreciation of Horace's art and ideals. Prose composition.

TEXTS: *Odes I, II, III: Satires*, Horace—Bennett and Rolfe (Allyn and Bacon); *Ars Poetica*, Horace—Wilkins (Macmillan); *Bradley's Arnold*, Prose Composition, Ex. 29-53.

Lectures: Three hours a week, two semesters.

Full course.

Latin 304 (4):

An intensive study of Cicero's rhetoric. Selections from Catullus. Prose composition.

TEXTS: *Pro Marcello; Pro Ligario*, Cicero; *Selections*, Catullus; *Bradley's Arnold*, Prose Composition, Ex. 54-64

Lectures: Three hours a week, two semesters.

Full course.

Latin 405 (5):

A tutorial course on Cicero (*De Amicitia*, *De Senectute*), Lucretius (*De Rerum Natura*). Roman history from its beginnings to the end of the Republic.

Full course.

Latin 406 (6):

A tutorial course on Tacitus (*Agricola*), Livy (Books XXI and XXII) Juvenal (*Satires*). Roman history from Augustus to the beginning of the Middle Ages.

Full course.

Latin 407 (7):

A tutorial course; directed readings and research; ecclesiastical Latin, or Latin philosophical sources.

Full course.

MATHEMATICS

Mathematics 101 (1A):

Arts and Commerce Mathematics

Algebra: Exponents and radicals; variation; progressions; imaginary quantities and cube roots of unity; permutation and combination; binomial theorem with positive integral index.

Trigonometry: Radian measure; trigonometrical identities; complementary and supplementary angles; properties and solution of triangles; simple problems on heights and distances.

Analytical geometry: Cartesian co-ordinates; equation to straight lines.

TEXTS: To be announced

Lectures: Three hours a week, two semesters.

Full course.

Mathematics 111(1E):

Algebra and Trigonometry

This course is a prerequisite for all subsequent Mathematics courses.

Operations with real numbers; concept of functions; inequalities; logarithms; exponential functions; trigonometric functions; complex num-

bers; theory of equations; systems of equations (matrices); binomial theorem and probability; sequences.

TEXT: *Integrated Algebra and Trigonometry*—Fisher, Ziebur (Prentice-Hall)

Lectures: Five hours a week, two semesters.

Full course.

Mathematics 202 (2):

Analytic Geometry

Prerequisite: Mathematics 111.

Curves and equations, straight line, circle, parabola, ellipse and hyperbola; parametric equations; polar coordinates; rotation and translation of axis; solid analytic geometry.

TEXT: *Introduction to Analytic Geometry*—Love and Rainville (Macmillan)

Calculus

Prerequisite: Mathematics 111.

Limits, derivatives; related rates, extreme values; integral calculus; methods of integration and applications; length of a curve, areas, volumes, centroids, etc.; different systems of coordinates, partial differentiation; iterated and multiple integration.

TEXT: *Calculus*—Sherwood and Taylor (Prentice-Hall)

Lectures: Six hours a week, first semester.

Three hours a week, second semester.

Full course.

Mathematics 213 (13):

Mathematical Statistics I

Prerequisite: Mathematics 202.

Definition; central tendency; dispersion; moments; regression; association and contingencies; simple, partial and multiple correlation; rank interclass and intra-class correlation; sample survey.

TEXTS: *Mathematical Statistics*—Weatherburn (MacMillan);

Theory of Statistics—Yule and Kendall (Griffin)

Lectures: Three hours a week, two semesters.

Full course.

Mathematics 303 (3):

Advanced Calculus.

Prerequisite: Mathematics 202.

Differential equations, functions of two or more variables, vector analysis, infinite series, Taylor series, Fourier series, complex variable, double and triple integration.

TEXT: *Advanced Calculus for Applications*—F. B. Hildebrand (Prentice-Hall)

REFERENCE: *Advanced Calculus*—Kaplan (Addison-Wesley)

Lectures: Three hours a week, two semesters.

Full course.

Mathematics 304:*Boolean Algebra and its Applications*

Prerequisite: Mathematics 202.

The algebra of sets, symbolic logic and the algebra of propositions, switching algebra, relay circuits and control problems, circuits for arithmetic computation, introduction to probability of finite sample spaces.

TEXT: *Boolean Algebra and its Applications*—J. E. Whitesitt (Addison-Wesley)

REFERENCES: *Applied Boolean Algebra*—F. E. Hohn (Macmillan).

Lectures: *Three hours a week, two semesters.*

*Full course.***Mathematics 305:***Theory of a Complex Variable*

Prerequisite: Mathematics 202, 307.

Complex plane; fraction, powers, and roots; analytic functions, power series, some elementary functions, complex integration, representation theorems, the calculus of residues.

TEXT: *Analytic Function Theory*, Vol. 1—E. Hille (Ginn & Co.)

REFERENCES: *Introduction to Complex Variable & Applications*—R. V. Churchill (McGraw-Hill)

Lectures: *Three hours a week, two semesters.*

*Full course.***Mathematics 306:***Mathematical Probability*

Prerequisite: Mathematics 202.

Computation of probability by direct enumeration of cases, theorems of total and compound probability, repeated trials, probabilities of hypotheses and Bayes' theorem, Bernoulli's theorem, approximate evaluation of probabilities in Bernoullian case, mathematical expectation, law of large numbers, probabilities in continuum, concept of distribution, limit theorems, normal distribution in two dimensions, Euler's summation formula, Sterling's formula.

TEXTS: To be announced.

Lectures: *Three hours a week, two semesters.*

*Full course.***Mathematics 307 (7):***Modern Algebra*

Prerequisite: Mathematics 202.

Sets, rings, integral domains, fields, polynomials, groups, vector spaces, Boolean algebra.

TEXT: *Introduction to Modern Algebra*—N. H. McCoy (Allyn & Bacon)

REFERENCE: *Elements of Abstract Algebra*—J. T. Moore (Macmillan)

Lectures: *Three hours a week, two semesters.*

Full course.

Mathematics 310 (10):

Ordinary and Partial Differential Equations

Prerequisite: Mathematics 202.

Separation of variables; homogeneous and linear differential equations; higher order linear differential equations with constant coefficients; Laplace transformation, differential equations of higher order and degree, partial differential equations, Fourier series, applications.

TEXT: *Elementary Differential Equations*—Rainville (Macmillan)

REFERENCE: *Applied Differential Equations*—M. R. Spiegel (Prentice-Hall)

Lectures: *Three hours a week, two semesters.*

Full course.

Mathematics 312:

Theory of Matrices

Prerequisite: Mathematics 202.

Introductory concepts, vector spaces, equivalence, rank, and inverses, determinants, congruence, and hermitian congruence, polynomial over a field, matrices with polynomial elements, similarity, characteristic roots, linear transformation.

TEXT: *Theory of Matrices*—S. Perlis (Addison-Wesley)

REFERENCE: *Matrices and Linear Transformations*—Finkbeiner (Freeman)

Lectures: *Three hours a week, two semesters.*

Full course.

Mathematics 314 (14):

Mathematical Statistics II

Prerequisite: Mathematics 13.

Probability, theory of distributions; Fisher's Z-transformation elementary analysis of variance.

TEXTS: *Advanced Statistics, Vol. I*—Stuart and Kendall (Griffin)

Industrial Experimentation—K. A. Brownley (H. M. S. Stationery)

Lectures.: *Three hours a week, two semesters.*

Full course.

Mathematics 405:

Topology

Prerequisite: Mathematics 202, 307.

Introductory set theory, the real line, topological spaces, metric spaces, arcs and curves, partitionable spaces, the axiom of choice.

TEXT: To be announced.

Lectures: *Three hours a week, two semesters.*

Full course.

Mathematics 408 (8):

Functions of a Real Variable

The continuous real variable; Dedkind's theorem; Weierstrass theorem; rational functions; loci in space; complex numbers; limits of a function; the infinite in analysis.

TEXT: *Mathematical Analysis, Vol. I*—Goursat-Hedrick (Ginn)
Lectures: Three hours a week, two semesters. *Full course.*

PHILOSOPHY

Philosophy 201 (1):

Logic: Traditional formal logic; philosophical terminology; acts of the intellect.

General Metaphysics and Natural Theology: The object of metaphysics; first principles of being and knowledge. The existence of God; his attributes; creation, conservation, providence; the problem of evil.

TEXTS: *Logic*—Kreyche (Macmillan); *Introduction to St. Thomas*—Pegis (Modern Library); *Introductory Metaphysics*—Dulles, Demske, O'Connell (Sheed)

Lectures: Three hours a week, two semesters. *Full course.*

Philosophy 302 (2):

Prerequisite: Philosophy 1.

Philosophy of Man: Body-soul relationship in man; sensory and intellectual cognition; the will and its freedom; Descartes, Hume, Kant.

Epistemology: The problem of knowledge. A study of Descartes, Locke, Hume, Kant and Modern Thomism.

TEXTS: *Man and His Nature*—Royce (McGraw-Hill); *Discourse on Method, Meditations of First Philosophy*—Descartes (Liberal Arts); *Essay on Human Understanding*—Locke (Gateway Ed.); *An Inquiry Concerning Human Understanding*—Hume (Liberal Arts); *Prolegomena to any Future Metaphysics*—Kant. Other text to be announced.

Lectures: Three hours a week, two semesters. *Full course.*

Philosophy 303 (3):

Ethics: Basic and Applied

Prerequisite: Philosophy 201.

The morality of human conduct, and its norm. Natural law and conscience.

Rights and duties of man as an individual and as a member of society, domestic and civil.

TEXTS: *Man as Man*—Higgins (Bruce) Revised Edition; *Introduction to St. Thomas*—Pegis (Modern Library)

REFERENCES: *Right and Reason*—Fagothey (Mosby) Second Edition; *Readings in Ethics*—Leibell (Loyola Univ. Press)

Lectures: *Three hours a week, two semesters.*

Full course.

Philosophy 4:

History of Ancient and Medieval Philosophy

Prerequisite: Philosophy 1 and 2.

Greece and Rome: the history of philosophic thought from its beginnings to Neo-Platonism. The development of ideas in the writings of the great thinkers of the Middle Ages.

TEXTS: *History of Philosophy, Vol. I, Vol. II*—F. Copleston (Newman)

Lectures: *Three hours a week, two semesters.*

Full course.

Philosophy 5:

History of Modern and Contemporary Philosophy

Prerequisite: Philosophy 1 and 2.

Philosophical thought from the Renaissance to the nineteenth century. Present day currents of philosophical thought with special consideration given to the philosophers of England and France.

TEXT: Selected readings in the main philosophical thinkers of the 17th, 18th, 19th and 20th centuries.

Lectures: *Three hours a week, two semesters.*

Full course.

Philosophy 6, 7:

Open to Honours students only.

Tutorial or seminar courses; directed research in special philosophical problems.

Full courses.

PHYSICS

Physics 101 (1):

General Physics

Introduction to mechanics, sound, light, heat, electricity.

TEXT: *Principles of College Physics*—Shortly and Williams (Prentice-Hall)

Lectures: *Three hours a week, two semesters.*

Full course.

Laboratory: *Three hours a week, two semesters.*

Note: Students failing to complete the laboratory course prior to the date of examination will not be eligible to write the examination. Marks

will be awarded for the practical work and combined with the examination results for the final mark.

Physics 202 (2):

Heat, Light and Sound

Prerequisite: Physics 101, Mathematics 111, Mathematics 202 (may be taken concurrently).

Basic physical laws related to light, heat, and sound, are integrated and verified experimentally. Hydrostatics.

TEXT: *Elements of Physics*—Shortly and Williams (Prentice-Hall)
Lectures: *Three hours a week, two semesters.* Full course.
Laboratory: *Three hours a week, two semesters.*

Physics 303 (3):

Electricity and Magnetism

Prerequisite: Physics 202, Mathematics 202, Mathematics 303 (concurrently).

Coulomb's Law, electric field, Kirchoff's Law, capacitance, magnetic field, inductance D. C. motors and generators; alternating currents, resonance power, transformers, three phase alternating current. Thermionic emission, multi-electrode vacuum tubes and the cathode ray oscillograph.

TEXT: *Electricity and Magnetism*—Duckworth (Macmillan)
Lectures: *Three hours a week, two semesters.* Full course.
Laboratory: *Three hours a week, two semesters.*

Physics 304 (4):

Vector Algebra, Vector Analysis, and Mechanics

Prerequisite: Physics 202, Mathematics 303.

Unit vectors, sum of vectors, difference of vectors, scalar products of vectors, cross product of vectors, multiple products of vectors; the gradient; mechanics.

TEXT: *Mechanics*—Slater and Frank (McGraw-Hill)
Lectures: *Three hours a week, two semesters.* Full course.

Physics 305 (5):

Electrical Measurements and Electron Physics

Prerequisite: Mathematics 202, Physics 303.

Liberation of electrons from atoms; emissions; ionizations; discharges in gases; control of free electrons; power, audio and radio frequencies. Operational methods; measurements; application of electronic devices and circuits.

TEXTS: *Ions, Electrons and Ionizing Radiations*—Crowther (Arnold); *Electrical Measurements and Their Applications*—Michels (Van Nostrand)

Lectures: Three hours a week, two semesters.

Full course.

Laboratory: Three hours a week, two semesters.

Physics 306:

Electric Circuits

Prerequisite: Mathematics 202, Physics 303 (concurrently)

Circuit elements; Ohm's Law, Kirchoff's Laws, equilibrium equations (mesh and node); the principle of duality; network theorems; energy and power; complex impedance and the use of phasors; steady state analysis of circuits; two-terminal networks; two-terminal-pair networks and basic measurements.

TEXT: *Electrical Engineering Circuits*—H. H. Skilling (Wiley)

REFERENCE: *Networks, Lines and Fields*—J. D. Ryder (Prentice-Hall)

Lectures: Three hours a week, two semesters.

Full course.

Laboratory: Three hours a week, two semesters.

Physics 307 (7):

Atomic Physics

Prerequisite: Mathematics 202, Physics 303, Mathematics 303 (may be taken concurrently)

An introduction to quantum theory and wave mechanics by way of a review of the classical experiments of atomic physics.

TEXTS: *Atomic Physics*—Finkelburg (McGraw-Hill); *Procedure in Experimental Physics*—Strong (Prentice-Hill)

Lectures: Three hours a week, two semesters.

Full course.

Laboratory: Three hours a week, two semesters.

Physics 309 (9):

Physical Optics and Optical Instruments

Prerequisite: Physics 202, Mathematics 202 and 303.

Electromagnetic theory; interference; diffraction; polarization; spectrum analysis. The use of glass and quartz spectrographs, lumber plates interferometers, polarimeters, and other optical apparatus.

TEXTS: *Physical Optics*—Robertson (Van Nostrand); *Fundamentals of Physics Optics*—Jenkins and White (McGraw-Hill)

Lectures: Three hours a week, two semesters.

Full course.

Laboratory: Three hours a week, two semesters.

Physics 311 (11):

Introduction to Modern Physics

Prerequisite: Physics 303, Mathematics 303.

An introductory course on the theory of relativity, spectroscopy, atomic physics, nuclear physics, x-rays, wave mechanics, cosmic rays, fundamental particles.

TEXT: *Introduction to Modern Physics*—Blanchard, Burnett, Stoner, Weber (Prentice-Hall)

REFERENCE: *Modern Physics*—F. W. van Name, Jr. (Prentice-Hall)

Lectures: *Three hours a week, two semesters.*

Full course.

Laboratory: *Three hours a week, two semesters.*

POLITICAL SCIENCE

Political Science 201 (1):

Introductory Political Science

The scope and methodology of Political Science. The natural law; the nature of the state; the purpose of the state; constitutional government.

TEXT: *Fundamentals of Government*—Schmandt and Steinbicker (Bruce)

Lectures: *Three hours a week, two semesters.*

Full course.

Political Science 302 (2):

Democratic Government

The essential features of democratic government as observed in the governments of Britain, the United States and Canada. Special attention to such topics as pressure groups, political parties and the growth of the executive in modern government.

TEXT: *Democratic Government and Politics*—Corry and Hodgetts (Univ. of Toronto Press)

REFERENCE: *Politics: Canada*—Paul Fox (McGraw-Hill)

Lectures: *Three hours a week, two semesters.*

Full course.

Political Science 303 (3):

Government and Politics in Russia and the Soviet Union

History, culture and political institutions of the Russian Empire and the U.S.S.R. An analysis of the social and economic backgrounds of the ideological and political setting in the Soviet Union; the development and techniques of the one-party state; and the impact of party on domestic and international policies.

TEXT: *The Soviet System of Government*—Hazard (Univ. of Chicago)
Government and Politics in East Central Europe

The political and constitutional systems of the states of Poland, Czechoslovakia, Hungary, Austria, Yugoslavia, Rumania, and Bulgaria before

and after World War II; the installation of Communist regimes in East Central Europe, the Sovietization of political institutions.

TEXT: *Lecture notes; required readings.*
Lectures: *Three hours a week, two semesters.* *Full course.*

Political Science 304 (4):

Canadian Government

Prerequisite: Political Science 201 or 302.

A study of the Canadian form of constitutional democracy.

TEXTS: *Government of Canada*—R. McG. Dawson (Univ. of Toronto Press)

Politics: Canada—Paul Fox (McGraw-Hill)

Lectures: *Three hours a week, two semesters.* *Full course.*

Political Science 305 (5):

International Relations

Prerequisite: Political Science 201, History 101 or equivalent.

A survey of international relations from the emergence of the modern state system to the present; nationalism, analysis of national sovereignty, imperialism and the balance of power, power politics and international organizations.

TEXT: *Introduction to International Relations*—C. Schleicher (Prentice-Hall)

Lectures: *Three hours a week, two semesters.* *Full course.*

Political Science 306 (6):

Comparative Study of Governments

Prerequisite: Political Science 201 or 302.

A detailed analysis of the institutional function of the governments of the United Kingdom, France, Germany and the U.S.S.R.

TEXT: *Major Foreign Powers*—Carter, Ranney, Herz (Harcourt Brace and Company)

Lectures: *Three hours a week, two semesters.* *Full course.*

Political Science 307 (7):

The Middle East

Not open to Freshmen

A brief historical and political survey of the area, with a study of the modern political institutions of the Middle Eastern States.

TEXT: *A Short History of the Middle East*—G. Kirk (Metheun)

Lectures: *Two hours a week, two semesters.* *Full course.*

Political Science 308 (8):

International Law and Diplomacy

Not open to Freshmen.

The principle mores, customs, rules and laws set up to regulate and control international relations among states in the political, diplomatic, cultural and other fields.

TEXT: *Introduction to the Law of Nations*—O. Svarlien (McGraw-Hill)

Lectures: *Three hours a week, two semesters.*

Full course.

Political Science 309 (9):

The British Commonwealth

Prerequisite: Political Science 201 or equivalent History course.

The development of governmental institutions in the nations of the Commonwealth, with particular attention to area problems in India, South Africa and Canada.

TEXT: To be announced.

Lectures: *Two hours a week, two semesters.*

Full course.

Political Science 310:

The History of Political Thought

Major political writings from ancient to modern times are studied and political doctrines such as democracy, liberalism, socialism, fascism, and communism are examined. Emphasis is centered on a comparison of basic ideas and on the relationships between theories and contemporary historical circumstances.

TEXT: *A History of Political Philosophy*—Schmandt (Bruce)

Lectures: *Three hours a week, two semesters.*

Full course.

Political Science 311:

Government and Politics in the Far East

A comparative study of the political and constitutional systems of China, Japan, Korea, and the states of Southeast Asia. Recent processes of political development in China; the practice of democracy in postwar Japan and the heritage of feudal and imperial institutions; problems of government and administration in those countries which have recently become independent.

TEXT: *Governments and Politics of Southeast Asia*—Kahin (Ed.) (Cornell Univ.)

Lectures: *Two hours a week, two semesters.*

Full course.

PSYCHOLOGY

Psychology 201 (1):

General Psychology

The general principles of sensation, perception, response and integration, stressing comprehension, retention and the nature and control of intelligence and personality.

TEXT: *Psychology: The Unity of Human Behaviour*—Gannon (Ginn)
Lectures: Three hours a week, two semesters. *Full course.*

SOCIOLOGY

Sociology 201 (1):

Introductory Sociology

Man's biological and cultural heritage; man's social nature, problems of group life; racial conflicts; social institutions; social maladjustments. An essay covering field work investigation is required.

TEXT: *General Sociology*—N. S. Timasheff, Paul W. Facey, S. J. & John C. Schlereth (Bruce)

REFERENCES: *Current Social Problems*—Mihanovich; *Social Principles*—Cronin

Lectures: Three hours a week, two semesters.

Full course.

Sociology 302 (2):

Social Problems Involving Disorganization and Deviance

A positive approach to establish proper perspectives for adjustment to personal, family, industrial, religious, social and various other problems such as addictions, health, handicaps; vocational difficulties; emotional controls and suicide; industrial hazards, community problems, national problems, minority groups, war, population, prejudice and discrimination; family problems.

TEXT: *Current Social Problems*—Mihanovich (Bruce)

REFERENCES: *The World of Work*—Robert Dubin (Prentice-Hall); *Psychology of Personal Adjustment*—F. McKinney (Wiley); *Social Problems and Social Action*—Walsh & Furfey (Prentice-Hall); *Canadian Society*—Blisshen, Jones, Naegele, Porter (Macmillan)

Lectures: Three hours a week, two semesters.

Full course.

Sociology 303 (3):

Criminology

Theories of criminality; development and prevention of delinquent and criminal behaviour; agencies of law enforcement and the treatment of criminals.

TEXT: *Criminology*—Cavan (Crowell Co.) Second Edition.

REFERENCE: Standard texts by: Reckless, Sutherland, Glueck, Teeters, etc.

Lectures: *Three hours a week, two semesters.*

Full course.

Field work in correctional areas is an essential part of this course.

Sociology 304 (4):

Urban Sociology

(a) Study of modern cities including: physical patterns and location; city planning and redevelopment; problems of population composition and mobility; social problems arising out of class distinction, leisure and changing human relations; community behavior.

(b) Changing family life in cities including: family disorganization; marriage problems; changing role of women; welfare agencies.

TEXTS: *Urban Sociology* (A.B.C.)

Marriage and the Family—Mihanovich, Schnepf, Thomas (Bruce)

REFERENCES: *The Urban Community*—Nels Anderson (Holt, Rinehart, Winston Inc.); *Canadian Society*—Blishen, Jones, Naegele, Porter (Macmillan); *Urbanism and the Changing Canadian Society*—S. D. Clark (Univ. of Toronto Press)

Lectures: *Three hours a week, two semesters.*

Full course.

Sociology 305 (5):

Anthropology

Through the comparative study of primitive man we examine various aspects of the character and function of mankind's social groupings and institutions. We study briefly the nature of man's cultures and relate this to the physical and social development of man himself.

TEXT: *Introduction to Anthropology*—Beals and Hoijer (Macmillan)

REFERENCES: *The Science of Man*—Titiev (Holt and Co.); *General Anthropology*—Turney-High (Crowell Co.); *Anthropology*—Kroeber (Brace)

Lectures: *Three hours a week, two semesters.*

Full course.

SPANISH

Spanish 101:

This course is intended for students who have had no Spanish or whose previous training does not qualify them for a more advanced course. During the course emphasis will be placed on development of listening comprehension, reading, writing and practice in easy conversation. A complete elementary knowledge of the Spanish grammar will be the basic work of the course.

TEXT: To be announced.

Lectures: *Three hours a week, two semesters.*

Full course.

Spanish 102:

The course comprises an intensive practice in spoken and written Spanish with an introduction to Spanish literature through selected readings from Spanish and South American authors.

Students are required to pass an oral and written examination.

TEXT: To be announced.

Lectures: *Three hours a week, two semesters.*

Full course.

Spanish 201:

A continuing basic course for those who have begun study of the language in College.

A review of Spanish grammar will be given with special emphasis on modern literary trends

TEXT: To be announced.

Lectures: *Three hours a week, two semesters.*

Full course.

Spanish 202:

A special study of Spanish literature of the nineteenth and twentieth centuries. The students will be required to make a more practical usage of the language in composition and conversation. Classes as far as possible will be conducted in Spanish.

TEXT: To be announced.

Lectures: *Three hours a week, two semesters.*

Full course.

THEOLOGY

Theology 101 (1):

Sources of Revelation

A historical and doctrinal study of biblical literature and inspiration; religious, social, political backgrounds of the life of Christ; the Gospels; the public life of Christ; founding of the Church. This course is specially recommended to non-Catholics.

TEXTS: *The New Testament—Confraternity Edition (St. Anthony Guild Press); Christ as King and Prophet—Fernal (LeMoyne Series)*

Lectures: *Two hours a week, two semesters.*

Full course.

Theology 202 (2):

Sources of Revelation

The redemptive sacrifice of Christ studied in Sacred Scripture and in Christian tradition. The Mass; The Mystical Body.

TEXTS: *The New Testament—Confraternity Edition (St. Anthony Guild); Christ Our High Priest—Fernal (LeMoyne Series)*

Lectures: *Two hours a week, two semesters.*

Full course.

Theology 301:*Christian Faith and its Cultural Expression*

A study of the historical phenomenon which is Christianity. This course seeks to discover, as far as possible, the historic faith common to all Christian communions. Christian faith is here presented as a total faith: a vision of the world and man and their meaning; a set of attitudes towards nature and self and towards others as individuals and in groups; a set of expressions in worship and art, literature and action, association and thought. It informs the student of the elements of Christianity formative of our culture. The sources of this study are the Bible and the most significant writings of Christian thinkers of various Christian communions from the early centuries to our own day.

TEXT: *Christian Faith and its Cultural Expression*—George Gordh, 1962 (Prentice-Hall)

Lectures: Three hours a week, two semesters.

Full course.

Theology 303 (3):*Theology of Christian Living*

The Church: juridical structure; Church and State; the layman's role in the Church. The supernatural life: its growth and development. The sacraments: with special emphasis on the sacrament of marriage.

TEXT: *The Teaching of the Catholic Church*, Vol. II.—Edited by G. Smith (Macmillan)

Lectures: Three hours a week, two semesters.

Full course.

Theology 304 (4):*Basic Theological Problems*

Prerequisite: Two courses in Philosophy, one of which may be taken concurrently.

Faith, revealed truth; God, unity and Trinity; man, his origin and destiny; the natural and supernatural; original sin; Christology: Incarnation, Hypostatic Union, Redemption; Mariology.

TEXT: *The Teaching of the Catholic Church*, Vol. I.—Edited by G. Smith (Macmillan)

Lectures: Three hours a week, two semesters.

Full course.

Theology 305 (5):*Old Testament*

Introduction to all the books of the Old Testament; attempts to discover, in the light of modern biblical scholarship, the divine message, as expressed in Israel's historical, legal, prophetic, poetical, sapiential, de-

votional, and apocalyptic writings, which are the inspired books of the Old Testament. This course is specially recommended to non-Catholics.

TEXT: *The Bible*

Lectures: *Three hours a week, two semesters.*

Full course.

Theology 306 (6):

Theology of the Spiritual Life

Christian perfection: its meaning and principles, applied to the various states of life—married, single, religious, priestly. Union with Christ through grace, theological and moral virtues, gifts of the Holy Ghost, prayer, the sacraments.

TEXT: To be announced.

Lectures: *Three hours a week, two semesters.*

Full course.

Theology 307 (7):

New Testament

Attempts to discover, in the light of modern biblical scholarship, the divine message in the New Testament writings, with special emphasis on the writings of St. Paul and of St. John. This course is recommended for non-Catholics.

TEXT: *The Bible*

Lectures: *Three hours a week, two semesters.*

Full course.

CONVOCATION - - - MAY 14, 1962

MEDALS AND PRIZES

GOVERNOR-GENERAL'S MEDAL.....Lee Eng Hwa
Awarded to the student who has made the most outstanding
contribution to scholarship and student activities

ARTS

Highest Aggregate in Four Years Arts.....Andrew Osyany
Gold Medal donated by Most Reverend J. Gerald Berry, D.D.
Highest Aggregate Third Year Arts.....Thomas Mabey
Arts Faculty Ring donated by Honourable Harold Connolly
Highest Aggregate Second Year Arts.....Richard Chan
Donated by Halifax Newman Club Alumni
Highest Aggregate in First Year Arts.....Michael Larsen

SCIENCE

Highest Aggregate in Fourth Year Science.....Lee Eng Hwa
Gold Medal donated by Saint Mary's University Ladies' Auxiliary
Highest Aggregate in Third Year Science.....Stanley Jenkinson
Science Faculty Ring donated by Mr. and Mrs. W. A. Russell
Highest Aggregate in Second Year Science.....Chong Chun Yin
Highest Aggregate in First Year Science.....Michael Friedlaender

COMMERCE

Highest Aggregate in Four Years Commerce.....Gary Vigneau
Gold Medal donated by Messrs. Henry Birks & Sons
Highest Aggregate in Third Year Commerce.....Frederick Briggs
Commerce Faculty Ring donated by Mr. Alban M. Murphy in
memory of Flying Officer Patrick Scott Murphy
Highest Aggregate in First Year Commerce.....Thomas Finn

ENGINEERING

Highest Aggregate in Three Years Engineering.....Michael Ting Kuok Ngie
Gold Medal donated by Mr. and Mrs. J. M. Inglis in memory
of their son, Delisle Inglis
Highest Aggregate in Second Year Engineering.....Eric Morse
Engineering Faculty Ring donated by Doctor R. W. McColough
Highest Aggregate in First Year Engineering.....Kevin Clancey

EDUCATION

Highest Aggregate in Education.....Ashford Clinton Browne
Gold Medal donated by Right Reverend William Burns, P.A.,
V.G., P.P., in memory of Reverend Doctor John Burns

Public Speaking.....James Geary
Gold Medal in memory of Pilot Officer W. A. Haliburton
Radio Speaking (CHNS Trophy).....David Cassivi
French.....Jean-Guy Labrie
Bronze Medal donated by the Cultural Regulations Department
of the République Française

GRADUATES—MAY 14, 1962

BACHELOR OF ARTS

John Foster Canmore Ardenne.....	Seabright, N. S.
Joan Elizabeth Berringer.....	West LaHave, N. S.
Ursula Charlotte Bohlmann (cum laude).....	Halifax, N. S.
Stephen Arthur Clancey.....	Halifax, N. S.
Keith Michael Coolen.....	Halifax, N. S.
Paul Lawrence Cusick.....	Dorchester, Mass.
Michael George Driscoll.....	Dartmouth, N. S.
William Joseph Gorman.....	Halifax, N. S.
Theresa Elizabeth Grace.....	Dominion, C. B.
Gerard Cantwell Hawco.....	Corner Brook, Nfld.
Wayne Francis Horner.....	Halifax, N. S.
Roy Francis Keast.....	Dartmouth, N. S.
Jean-Guy Labrie.....	Dolbeau, P.Q.
Charles Joseph Leonard.....	Dorchester, Mass.
James Patrick McDevitt.....	Dorchester, Mass.
Reginald Joseph MacDougall.....	Halifax, N. S.
Gordon Anthony MacIntyre.....	Spryfield, N. S.
Anthony Hubert Manning.....	St. John's, Nfld.
Mary Sharon Meagher (cum laude).....	Halifax, N. S.
Andrew John Osyany (magna cum laude).....	Glace Bay, N. S.
William Joseph Roper.....	Dorchester, Mass.
Wilfred James Vigneault.....	Halifax, N. S.
Frances Mary Smith.....	Truro, N. S.
Agnes Mattar Ward.....	Halifax, N. S.
John Robert Whalen.....	Windsor, N. S.

BACHELOR OF SCIENCE

Roy Vincent Cooper.....	Halifax, N. S.
Robert James Gillespie.....	Halifax, N. S.
Cyril Francis Hannon.....	Bishop Falls, Nfld.
Chue George Ing.....	Victoria, B. C.
Khoo Chiew Phoe (magna cum laude).....	Kuching, Sarawak
Lee Eng Hwa (summa cum laude).....	Kuching, Sarawak
Gerald Flemming Lee.....	Halifax, N. S.
John Joseph McIsaac.....	Halifax, N. S.
Robin Angus Monies.....	Jollimore, N. S.
Kenneth Robert Nickerson.....	Halifax, N. S.
Michael Peter Samson.....	Bathurst, N. B.
Ross Edgar Wayland.....	Halifax, N. S.

BACHELOR OF COMMERCE

David Leonard Cashen.....	Halifax, N. S.
James Philip Coade.....	Halifax, N. S.
Ervin John Doak.....	Fort Fairfield, Me.
Erin Kevin Dockrill.....	Dartmouth, N. S.
Donald G. Fisher.....	Halifax, N. S.
Philip Michael Flinn.....	Halifax, N. S.
Honora M. Hickey.....	Halifax, N. S.
Edward Francis Hoganson.....	Armdale, N. S.

William Edward Kelleher.....	Kitchener, Ont.
Lam Wai-Ping.....	Kowloon, Hong Kong
Michael Ramsay McGrath.....	Halifax, N. S.
Patrick Joseph Murphy.....	Corner Brook, Nfld.
John Richard Riley.....	Manchester, N. H.
George William Venner.....	Dartmouth, N. S.
Gary Leonard Vigneau.....	Halifax, N. S.

DIPLOMA IN ENGINEERING

Gary Herman Baker.....	Halifax, N. S.
Louis Roland Comeau.....	Meteghan, N. S.
John Pius Currie.....	Halifax, N. S.
Basil John Dobbin.....	St. John's, Nfld.
William Joseph Dyer.....	Halifax, N. S.
Cyril Francis Hannon.....	Bishops Falls, Nfld.
Khoo Chiew Phoe (with great distinction).....	Kuching, Sarawak
Stephen Gerard Leahey.....	Pugwash, N. S.
Lee Eng Hwa (with greatest distinction).....	Kuching, Sarawak
Anthony Look Tong.....	Arouca, Trinidad
Arthur Augustus MacDonald.....	Halifax, N. S.
John Wilfred Macdonald.....	Halifax, N. S.
Thomas Chacko Moolecherry.....	Kerala, India
Michael Ting Kuok Ngie (with greatest distinction).....	Sibu, Sarawak
John Ignatius Maria Vissers.....	Ennismore, Ont.

DIPLOMA IN JOURNALISM

Malcolm Edgar Johnson.....	Newport Station, N. S.
Francis Arthur Pottie.....	Halifax, N. S.

BACHELOR OF EDUCATION

Ashford Clinton Browne, B.Sc. (magna cum laude).....	Halifax, N. S.
Margaret Angela Chauvin, B.Comm. (cum laude).....	Halifax, N. S.
Peter Joseph Christmas, B.A.....	Halifax, N. S.
Stephen Hilton Cook, B.Sc., P.E.....	Halifax, N. S.
Donald Joseph Feron, B.A. (cum laude).....	Halifax, N. S.
Marie June Himmelman, B.Mus., B.A. (cum laude).....	Halifax, N. S.
Marian Elizabeth Holder, B.A.....	Halifax, N. S.
Elizabeth Anne Kerr-Wilson, B.A. (cum laude).....	Woodlawn, N. S.
Diane Lacey, B.Sc.....	Halifax, N. S.
James Thomas Maloney, B.Sc.....	Halifax, N. S.
James Thomas Morrisey, B.Sc.....	Halifax, N. S.
Isabel E. Publicover, B.A.....	Beaverbank, N. S.
Gordon Livingstone Rowat, B.A.....	Woodlawn, N. S.
Thomas C. Sullivan, B.A., B.Comm.....	Halifax, N. S.
Stephen Xenophon Tzagarakis, B.Eng. (cum laude).....	Dartmouth, N. S.

Joan Alice Venner, B.A., M.A.....	Halifax, N. S.
Avia Ann Wilband, B.A.....	Halifax, N. S.
Lillian Arlene Woolley, B.A.....	Dartmouth, N. S.

MASTER OF SOCIAL WORK

Gregory Lamont McClare.....	Halifax, N. S.
Vincent Edward MacIntyre.....	Halifax, N. S.
Daniel William Paul O'Brien.....	Bedford, N. S.

MASTER OF ARTS

Joseph Murray Abraham, B.A., B.Ed. (magna cum laude).....	Halifax, N. S.
John Terrance Burns, B.A., B.Ed.....	Halifax, N. S.
Gillis Duncan Carrigan, B.A., B.Ed. (cum laude).....	Jollimore, N. S.
Alphonse Gaudet, B.A., B.Ed.....	Halifax, N. S.
Frank E. Milne, B.Sc., B.Ed.....	Halifax, N. S.
Robert Arthur O'Connell, B.A., B.Ed.....	Rockingham, N. S.

GRADUATES—OCTOBER 1962

BACHELOR OF ARTS

Hildred Margaret Fergusson, (cum laude).....	Halifax, N. S.
Leo James Hobin.....	Halifax, N. S.
Margaret Mary MacDonald.....	Halifax, N. S.
Anne Katherine MacKinnon.....	Halifax, N. S.
Robert Gordon Metcalfe.....	Martinon, N. B.
Marian Elizabeth Peters, (summa cum laude).....	Halifax, N. S.
Francis Arthur Pottie.....	Halifax, N. S.

BACHELOR OF SCIENCE

Gary Herman Baker.....	Halifax, N. S.
Louis Roland Comeau.....	Meteghan, N. S.
John Pius Currie.....	Halifax, N. S.
William Joseph Dyer.....	Halifax, N. S.
Alexander Roy Findlay.....	Shearwater, N. S.
Gerard W. Keenan.....	Moncton, N. B.
Edmund Gregory Nash.....	Spryfield, N. S.
Harold George Pheaney.....	Halifax, N. S.

BACHELOR OF COMMERCE

Pierre Beaudry.....	Quebec, P. Q.
Ian Kenneth A. Campbell.....	Halifax, N. S.
Andres Miguel Gazso.....	Caracas, Venezuela
Howard J. A. Logan, S. J., B.A. (cum laude).....	Montreal, P. Q.

Leo Mark Murphy Corner Brook, Nfld.
Rene Emile Rivard Garneau Junction, P. Q.
King-Son Tang Hong Kong
John David Thompson Dartmouth, N. S.

DIPLOMA IN ENGINEERING

Gordon David Campbell Halifax, N. S.

BACHELOR OF EDUCATION

Joan Ann Theresa Sullivan, B.Sc. Halifax, N. S.