

General Calendar of
SANT MARY'S UNIVERSITY
for the academic year 1961-62

*Under the Direction of
the Jesuit Fathers*

May 1961

HALIFAX - Nova Scotia - Canada



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

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CONVOCATION PROGRAMME, May 16, 1960

ACADEMIC CALENDAR YEAR

1961-62

AUGUST

28 ~~Tuesday~~.....Last day for receiving applications for entrance and supplemental examinations.

SEPTEMBER

1 ~~Tue-Fri~~.....Pre-registration interviews, by appointment.
9:00 a.m.—12:00 noon; 2:00 p.m.—5:00 p.m.

2 ~~Monday~~.....Entrance and supplemental examinations begin at 9:00 a.m. Registration for Freshmen, and new students.
(Arts and Commerce)

9:00 a.m.—12:00 noon; 2:00 p.m.—5:00 p.m.

3 ~~Tuesday~~.....Registration for Freshmen, and new students.
(Science and Engineering)

9:00 a.m.—12:00 noon; 2:00 p.m.—5:00 p.m.

4 ~~Wednesday~~.....Orientation and Testing programme begins for Freshmen and new students at 9:30 a.m. in the Auditorium.

Registration for second year students.
(all Faculties)

9:00 a.m.—12:00 noon; 2:00 p.m.—5:00 p.m.

5 ~~Thursday~~.....Registration for third year students.
(all Faculties) 9:00 a.m.—12:00 noon.

Registration for fourth year students.
(all Faculties) 2:00 p.m.—5:00 p.m.

6 ~~Mon-Thurs~~.....Registration for Evening Division students at 7:00 p.m.—8:30 p.m.

7 ~~Friday~~.....Registration for returning resident students.
9:00 a.m.—12:00 noon; 2:00 p.m.—5:00 p.m.

8 ~~Monday~~.....Instruction begins for all classes. Last date for late registration with \$5.00 fee.

9 ~~Wednesday~~.....College Mission begins at 9:00 a.m.

10 ~~Thursday~~.....Mass of the Holy Spirit in the University Chapel at 9:00 a.m.

General meeting of the Faculty in the Senate room at 11:00 a.m.

OCTOBER

1 ~~Monday~~.....Final date for late registration with \$15.00 fee.
Inauguration of extra-curricular activities.

2 ~~Monday~~.....Thanksgiving Day. No classes.

3 ~~Tuesday~~.....Last date for change of registration. No first term tuition refund will be granted on individual courses dropped after this date.

NOVEMBER

1 ~~Sunday~~.....Remembrance Day. No classes.

2 ~~Friday~~.....Solemn Requiem Mass for Most Reverend John T. McNally and deceased professors and Alumni in the University Chapel at 11:30 a.m.

3 ~~Mon-Sat~~.....Examinations.

DECEMBER

- 8 Friday.....Feast of the Immaculate Conception. Patronal Feast of the University. Solemn High Mass in the University Chapel at 11.30 a.m. No classes.
- 20 Wednesday.....Christmas recess begins after last class.

JANUARY

- 3 Wednesday.....Classes resume at 9:00 a.m.
- 22-27 Mon.-Sat.....Examinations.
- 30 Tuesday.....Second term begins at 9:00 a.m.

FEBRUARY

- 8 Thursday.....General meeting of the Faculty in the Senate room at 11:00 a.m.
- 13 Tuesday.....Last date for change of registration for second term. No second term tuition refund will be granted on individual courses dropped after this date.
- 21 Wednesday.....Public Speaking Contest in the Debating Theatre at 8:15 p.m.

MARCH

- 7 Wednesday.....Feast of St. Thomas Aquinas, patron of school.
- 16 Friday.....Student Council elections.
- 24 Saturday.....Extra-curricular activities cease.

APRIL

- 14 Saturday.....Easter recess begins after last class.
- 15 Sunday.....Annual Closed Retreat begins at 8:00 p.m.
- 24 Tuesday.....Classes resume at 9:00 a.m.
- 30 Monday.....Final examinations begin at 9:00 a.m.

MAY

- 11 Friday.....General Faculty Meeting in the Senate room at 4:00 p.m. Graduation ceremonies begin.
- 13 Sunday.....Baccalaureate Ceremony in the University Chapel at 3:30 p.m.
- 14 Monday.....Convocation Exercises in the University Auditorium at 8:30 p.m.

JUNE

- 25-28 Mon.-Thurs.....Registration for Summer Session.
10:00 a.m.—12:00 noon; 3:00 p.m.—5:00 p.m.

JULY

- 2 Monday.....Summer classes begin at 9:00 a.m.

AUGUST

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

OFFICERS OF ADMINISTRATION

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
Reverend D. Fogarty, S.J.	Dean, Education
Reverend S. S. Beakley, B.Comm., R.I.A.	Dean, Commerce
Reverend J. L. Ryan, B.Sc., B.E.	Dean, Engineering
Reverend J. J. O'Sullivan, S.J.	Dean of Men
Mrs. A. J. J. J. J.	Acting Registrar
Reverend A. J. Cotter, S.J.	Librarian
Reverend R. B. B. B.	Assistant Librarian
Reverend M. J. O'Donnell, S.J.	Student Counsellor
Reverend J. Power, S.J.	Principal of the High School
Reverend D. D. D.	Assistant to the President

SCOTIUS COLLEGE

Reverend James J. Farrell, S.J.	Rector
Reverend Robert J. MacDougall, 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 Earl A. Reddin, S.J.	Bursar

ST. ANNE'S COLLEGE

Reverend E. F. Sheridan, S.J.	Rector
Reverend W. J. Kearns, S.J.	Vice-Rector
Reverend J. Hochban, S.J.	Dean of Studies, Registrar
Reverend John J. Hennessey, S.J.	Student Counsellor
Reverend V. J. MacKenzie, S.J.	Librarian

BOARD OF STUDIES

Reverend W. A. Stewart, S.J.	Chairman
Reverend S. S. Beakley, B.Comm., R.I.A.	J. L. Ryan, B.Sc., B.E.
Reverend D. Fogarty, S.J.	A. T. Sabeau, B.A., B.Sc., M.Sc.
Reverend C. B. O'Keefe, S.J.	Reverend G. Topp, S.J.

COMMITTEE ON ADMISSIONS

The Registrar and the Deans of the various Faculties.

OFFICERS OF INSTRUCTION

1960-61

- * **H. G. Beazley**..... *Dean of Commerce*..... *Accountant*
 B. Comm., Saint Mary's University
 R.I.A. (Society of Industrial and Cost Accountants of Nova Scotia)
- * **Ray V. Beck**..... *Engineer*
 B.Sc., Saint Mary's University
 B.E. (Civil), Nova Scotia Technical College
- ✓ **Reverend M. J. Belair, S.J.**..... *Adult Studies*
 B.A., University of Montreal; M.A., University of Chicago
- * **Harold G. Bowes**..... *Drum*
 B. E. (Mechanical), Nova Scotia Technical College
- ✓ **William Bridgeo**..... *Chemist*
 Ph.D., University of Ottawa
- ~~**Maurice Brisbois**..... *Mathematics*
 B.A., St. Laurent College; B.Sc., M.Sc., University of Montreal~~
- Reverend M. W. Burke-Gaffney, S.J.**..... *History of Science*
 B.A., University of Montreal; B.E., National University of Ireland
 Ph.D., Georgetown University; D.Eng., Nova Scotia Technical College
- Reverend Alfred Colliard, S.J.**..... *Theology*
 B.A., University of Montreal; S.T.L., Immaculate Conception.
- * **Gordon Collins**..... *Director*
 G.I. Mar. E.
- * **Arthur Conrad**..... *Education*
 B.A., B.Ed., M.A., Saint Mary's University
- Reverend Ambrosius Ozakó**..... *History of Art*
 Ph.D., University of Budapest
- ✓ **William Dalton**..... *Political Science*
 B.A., Saint Mary's University; M.A., University of Toronto;
 Ph.D., University of Ottawa.
- Reverend F. J. Devine, S.J.**..... *French*
 B.A., B.Ph., University of Ottawa; S.T.L., Immaculate Conception
 M.A. McGill University; Diplomé de l'Ecole Supérieure des
 Professeurs de Français à l'Étranger, Sorbonne
- * **Very Reverend Donald Duffie**..... *John Dickey*..... *Political Science*
 B.A., B.C.L., University of New Brunswick; B.C.L., Oxon.;
 J.C.D., Laval University
- * **John Earle**..... *Education*
 B.A., Saint Mary's University; B.Ed., Dalhousie University;
 M.A., Saint Mary's University
- Edward Flynn**..... *Physics*
 B.A., Memorial University; M.A., Dalhousie University
- ✓ **Reverend Daniel Fogarty, S.J.**..... *Education*
 M.A., Ph.D., Columbia University

Donald Fogarty	<i>Physical Education</i>
B.A., B.Ed., Saint Mary's University	
Lawrence G. Gallagher, S.J.	<i>Theology</i>
B.A., University of Montreal; M.S., Fordham University; S.T.L., St. Louis University	
Ray E. George	<i>Economics</i>
B.Sc., University of London; M.A., University of Bristol	
Henry P. Habib	<i>Political Science</i>
B.A., American University of Beirut; M.A., Fordham University (On leave of absence)	
George Hallett	<i>English</i>
B.A., M.A., Dalhousie University	
Robert Hanrahan	<i>Business Administration</i>
B. Comm., Saint Mary's University; M.B.A., Harvard University	
Michael B. Harrington	<i>Education</i>
B.A., B.Ed., Saint Mary's University	
W. J. Heckman	<i>Drawing</i>
B.A., Dalhousie University; B.Sc. (Civil), Nova Scotia Technical College	
W. Joseph Hill	<i>Accounting</i>
B. Comm., Saint Mary's University; C.A.	
Marion E. Keating	<i>Administration of Education</i>
B.A., M.A., LL.B., Dalhousie University; LL.D., Saint Mary's University	
Lawrence H. Labelle, S.J.	<i>Philosophy</i>
B.A., University of Montreal; M.A., St. Louis University S.T.L., Immaculate Conception; Ph.D., Gregorian University	
Walter Lawenstein	<i>Archaeology and Art</i>
Ph.D., University of Vienna, F.R.A.I.	
J. E. MacCormack	<i>History</i>
B.A., M.A., Dalhousie University; Ph.D., University of Toronto	
Lawrence James McGarry, S.J.	<i>Philosophy</i>
B.A., Laval University; Ph.D., Gregorian University	
Thomas S. Merdsoy	<i>Physics</i>
B.Sc., M.Sc., University of Rochester	
Lawrence J. E. Mills	<i>Gregorian Chant</i>
B.A., Saint Mary's University; B.Mus., University of Montreal	
Lawrence James Murphy, S.J.	<i>Chemistry</i>
B.A., Saint Joseph's University; M.A., Ph.D., University of Toronto	
Lawrence V. Murphy, S.J.	<i>Special Latin</i>
B.A., University of Montreal	
Lawrence M. J. O'Donnell, S.J.	<i>Latin</i>
B.A., University of Montreal; S.T.L., Immaculate Conception	
Lawrence C. B. O'Keefe, S.J.	<i>History</i>
B.A., University of Montreal; S.T.L., Immaculate Conception; M.A., Ph.D., University of Toronto (On leave of absence)	
Walter Lawenstein	<i>German</i>
State Examination, University of Berlin	
Lawrence Lloyd Robertson	<i>Philosophy of Education</i>
B.A., Saint Mary's University; M.A., Boston College	



- ✓ ***S. V. Rountree**.....
B.A., M.A., Dalhousie University; B.L.S., McGill University
- Reverend Daniel Rourke, S.J.**.....
B.A., St. Francis Xavier University; M.A., Gonzaga University
- ✓ **J. L. Ryan, E.D.**.....
B.Sc., Saint Mary's University;
B.E. (Mechanical) Nova Scotia Technical College
- Allan T. Sabean**.....
B.A., B.Sc., Saint Mary's University; M.Sc., McGill University
- ✓ **Charles W. Schandl**.....
LL.D., University of Budapest; C.A.
- B. S. Sheehan**.....
B.E., (Electrical) Nova Scotia Technical College (On leave of absence)
- ✓ **David Hope Simpson**.....
B.Sc., M.Sc., Ph.D., McGill University
- S. K. Sinha**.....
~~B.A., M.A., (Mathematics), M.A. (Statistics), University of Patna~~
~~M. Sc., University of London~~
- ✓ **H. C. Solten**.....
~~B.A., Ph.D., University of Toronto~~
- *Sylvia Stapleton**.....
B.A., M.A., University of Sydney
- Reverend William A. Stewart, S.J.**.....
B.A., University of Montreal; S.T.L., Immaculate Conception
- Frank Tomscha**.....
B.A., B.Sc., M.Sc., Diplom Physiker State University, Franfort
Main (On leave of absence)
- Reverend G. Topp, S.J.**.....
B.A., University of Montreal; Ph.L., Louvain;
Dipl. Phil., University of Louvain; S.T.L., Immaculate Conception
- ✓ **Joseph J. Vorstermans**.....
Econ. Doctor, Catholic University of Tilburg
- Donald Warner**.....
B. E. (Mechanical) Nova Scotia Technical College
M.S.M.E., Purdue University
- *J. L. Warner**.....
B.E. (Mechanical) Nova Scotia Technical College;
S.M., Massachusetts Institute of Technology
- *A. E. Yeoman**.....
B.A., Dalhousie University; M.A., B.D., University of King's College
- ✓ **Julius Zarand**.....
Diploma, Academy of Fine Arts, Budapest

* Part-time faculty.

Miss Florence Foley.....	<i>Assistant Librarian</i>
Mrs. Mary Dee Girroir, B.Mus.....	<i>Director, Glee Club</i>
Mr. Robert Hayes.....	<i>Director of Athletics</i>
	<i>Coach of Football, Hockey</i>
Miss Barbara Hubley.....	<i>General Office</i>
Mrs. M. Lee.....	<i>Library</i>
Miss Lois MacDougall.....	<i>Secretary to the President</i>
Mrs. J. Markesino.....	<i>General Office</i>
Mr. Donald Markley.....	<i>Bursar</i>
Mr. John Merritt.....	<i>Coach of Badminton</i>
Mr. Leigh Miller.....	<i>Coach of Track</i>
Miss Donna O'Regan.....	<i>General Office</i>
Mrs. O. Preston.....	<i>Infirmary</i>

UNIVERSITY RESERVE TRAINING PROGRAMMES

Capt. G. E. M. Ruffee (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.

J. E. H. Miller, 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

EXISTENT ORGANIZATIONS

OFFICES 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. Saintamarians 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, C.S.C., Archbishop of Halifax, and with the consent of the Very Reverend Superior 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 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, it 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 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 Science (in 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 great 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 Glee Club meets once or twice a week to practise group harmony singing, and to promote individual voice culture. Membership is open to all who are interested in music and have the requisite singing ability.

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 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, guest speakers, meetings, etc.

The Graduate Society is composed of all who have received degrees from Saint Mary's University. It possesses, under circumstances determined by the Act of Incorporation of the University, the right of appointing a member to the Senate of the University. The Society meets annually and at such other times as circumstances may suggest.

The Alumni Association. All former Saint Mary's students are eligible for membership. The Association, in addition to an annual social programme, has established an Annual Fund for university support which is currently being employed to establish a student assistance loan programme. 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

(ROTF)

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. "Scott", 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. Brown, Chemistry Department.

FINANCIAL INFORMATION

FEES

BURSAR'S REGULATIONS

WITHDRAWAL AND REFUNDS

SCHOLARSHIPS AND BURSARIES

FEES

As First Semester fees, students are required to make an initial payment of \$250.00 (resident students \$550.00) on or before the date of Fall registration.

Second Semester fees, payable on or before January 30th, are the balance of the student's account.

GENERAL FEES

Tuition: Arts (5 or 6 courses).....	\$350.00
Science (5 or 6 courses).....	380.00
Commerce (5 or 6 courses).....	350.00
Engineering (6 or more courses).....	425.00
Journalism: full course.....	Approx. 60.00
Education: full course.....	80.00
half course.....	45.00
tutorial.....	90.00
practice teaching.....	30.00
Special course tuition: non-laboratory course.....	70.00
laboratory course.....	80.00
Evening Division: non-laboratory course.....	80.00
laboratory course.....	90.00
Residence: room and board.....	550.00

PARTICULAR FEES

Registration (foreign students).....	\$ 3.00
Registration (payable for first registration only).....	5.00
Late registration (until Sept. 25th).....	5.00
(Sept. 25th-Oct. 2nd).....	15.00
Change in registration (until Oct. 10th only).....	2.00
General Fee, payable by all Day Division students taking 4 or more courses. This fee includes Library, Athletics, Insurance, Students' Council Journal, etc.....	45.00
Laboratory fee (Arts students taking laboratory course).....	15.00
Lodging, per day.....	2.00
Vacation (Christmas, Easter) room and board, per day.....	3.00
Personal laundry, per semester.....	25.00
Graduation: with Degree.....	15.00
with Diploma.....	10.00
in absentia.....	15.00
Special Examination (when permitted).....	10.00
Supplemental examination.....	5.00
Repeating.....	2.00

BURSAR'S REGULATIONS

1. The registration fee is charged only when the student registers for the first time. However, there is a charge for any student who registers late, whether registering for the first time or not—\$5.00 until September 25th, \$15.00 after this date.

2. To confirm their acceptance resident students must forward a deposit of \$25.00 for room reservation. This is credited towards the student's account, but is not refundable if the student does not register at the University.

3. No reduction will be granted to a student who enters the University after the date of opening.

4. Students who arrive before the opening day or remain at the University during vacations will be charged at the rate of \$3.00 per day. No reduction of this rate is granted for meals not taken at the University.

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

6. 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 a piano for practice will be an extra charge.

7. Resident students' spending money and personal expense money must be arranged through deposits with the Bursar by parents or guardians.

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

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

10. Accident insurance is compulsory for all. 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. The premium is included in the General Fee.

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

11. Students who wish to have a transcript of marks will be allowed two copies free. Additional copies will be supplied at the rate of \$2.00 each.

12. 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.

13. For any degree conferred in absentia at Convocation a fee of \$15.00 will be charged in addition to the regular degree fee.

14. 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.

NOTE.—Fees are subject to change with the varying cost of living.

WITHDRAWAL AND REFUNDS

No fee or any portion thereof is refundable as a matter of right upon the withdrawal of a student from the University.

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 \$3.00 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 for the whole month.

No refund of any fee will be granted to a student who withdraws from the University after December 1st for the first semester, or after March 31st for the second semester.

No refund of any fee will be granted to a student who is asked to withdraw from the University because of unsatisfactory conduct.

SCHOLARSHIPS AND BURSARIES

ENTRANCE SCHOLARSHIPS

University: full tuition Entrance Scholarship. Awarded annually to a leading student of Saint Patrick's High School, Halifax, N. S.

University: valued at \$200.00. Awarded annually to a student from St. Malachy's High School, Saint John, N. B.

University: valued at \$200.00. Awarded annually to a Catholic student from Moncton, N. B.

Saint Mary's University Ladies' Auxiliary: valued at \$300.00. Open to a student of Saint Patrick's High School, Halifax, N. S.

The **Brother Stirling Scholarship** donated by Mr. John H. Dickson is valued at \$300.00. Open to students in the graduating class of Saint Mary's University High School.

OTHER SCHOLARSHIPS

Ashwood Scholarship: varying in number, valued at \$100.00 or more.

Flinn Scholarship: varying in number, valued at \$100.00 or more.

Mary C. Daley Scholarship: two or more, founded by the late Mary C. Daley.

Nova Scotia Light and Power Company: valued at \$300.00. Open to Science or Engineering students.

Monsignor James Granville scholarship.

K. of C. of Halifax (Council 1097): at least six open scholarships valued at \$125.00 each, tenable for four years.

K. of C. Dartmouth (Council 313): two scholarships, valued at \$200.00 each; open, tenable for four years.

Union Carbide Scholarships: two, tenable for four years; valued at \$700.00 each for the first year, \$600.00 in each subsequent year.

The **E. G. Byrne, Q.C., Scholarship**: a scholarship of \$100.00 annually.

The **Bernard O'Neil Scholarships** valued at \$150.00.

The **James E. Donohue** memorial scholarship, open to a student in Engineering.

The **Duncan W. Lynch** memorial scholarship, valued at \$300.00 open annually to a student from Dartmouth.

The **John Glenister** memorial scholarship, valued at \$100.00 open annually.

The **Glee Club** scholarship; tuition for music study with teacher of voice; open annually to a member of Saint Mary's University Glee Club.

The **Halifax Rifles Centenary Scholarship**, valued at \$150.00 minimum a year.

SCHOLARSHIPS FROM PARISHES AND PARISH ORGANIZATIONS

The following scholarships range in value from \$100.00 to \$250.00 annually.

Saint Lawrence Parish Holy Name Society Scholarship.

Saint Theresa's Parish Holy Name Society Scholarships, two in number, valued at \$125.00 annually.

St. Theresa's Parish Scholarships, two or more in number, valued at \$150.00 annually.

Saint Mary's Basilica Scholarships, two or more in number, valued at \$25.00 annually.

Canadian Martyrs' Parish Holy Name Society Scholarship.

Saint Catherine's Parish Holy Name Society Scholarship.

Saint Patrick's High School Home and School Association, a number of scholarships, each valued at \$125.00 or more annually.

Saint Peter's Holy Name Scholarship, valued at \$100.00 annually.

Saint Rose of Lima Holy Name Scholarship, valued at \$100.00 annually.

Saint Stephen's Parish Scholarships, a number valued at \$100.00 annually.

Saint Thomas Aquinas Home and School Association Scholarship, valued at \$150.00 annually.

Canadian Martyrs' C. W. L. Subdivision, loan fund of \$200.00.

BURSARIES AND LOANS

Saint Mary's University Alumni Loan Fund: This fund makes available loans to deserving students who are in need of financial assistance. Loans are at a low rate of interest, and up to a maximum of \$300.00 a year. For further information, please consult the Registrar. Applications must be made in writing.

The university also makes available bursaries and loans to deserving students who are in need of financial assistance. For further information, please consult the Registrar.

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 are transferring to Saint Mary's from some other university should present a transcript of their marks and a testimonial of honourable dismissal.
3. a recent photograph. (Passport size).
4. a \$3.00 application fee if the applicant is not a resident of Canada.
5. where necessary, students should send a certificate stating 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 the term fees. It will be returned if the University is unable to provide accommodation, otherwise it is not refundable.

ADMISSION REQUIREMENTS

JUNIOR MATRICULATION

To be admitted to University as an undergraduate a candidate must offer credit in seven matriculation subjects.

For admission to any of the following courses for which only one foreign language is required, the Junior matriculation standing must be 50% in each subject with a general average of 60%.

Students for university should during their High School keep in mind the requirements for admission to any faculty. 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 courses are as follows:

Mathematics:
English Algebra
Latin Geometry
French
One of: Chemistry, Physics, Biology, History, Economics, or another language

Science Courses:
English Algebra
French, German, or Spanish Geometry
One of: Chemistry, Physics, Biology, History, Economics, or another language

Math. Courses:
English Algebra
French or German Geometry
One of: Chemistry, Physics, Biology, History, Economics, or another language

Admission to Journalism:
Same requirements as for B.A. or B. Com. Course.

Admission to Engineering
English Geometry
French or another language Chemistry
Algebra Physics
One of: Biology, Trigonometry, History, Economics, or another language

ACCEPTABLE CERTIFICATES

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

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 Department 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 the written approval of the Dean.

The certificates to which these provisions apply are the following:

- (a) Grade XII Certificate of the Atlantic Provinces Council of Examiners;
- (b) Third Year Certificate as issued by the Prince of Wales College, Prince Edward Island;
- (c) Certificate of the first year of Memorial University, St. John's, Newfoundland;

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 Registrar's 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.

As a part of registration to meet initial obligations with the Office of the Registrar.

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 present a similar certificate.

PROVISIONAL AND LATE REGISTRATION

If official documents are not received by the Registrar and approved by the Board of Admissions two weeks before registration dates, provisional 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 'Particulars').

CHANGES 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 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 'W' (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.

ACADEMIC INFORMATION

ATTENDANCE

EXAMINATIONS AND GRADES

READING DIVISION

SELF STUDY SERIES

THE ATLANTIC SUMMER SCHOOL FOR
ADVANCED BUSINESS ADMINISTRATION

ATTENDANCE

Each student is required to attend all assigned class and laboratory periods, and all official assemblies. For Catholic students this requirement extends to religious functions.

The following regulations are considered sufficient to cover all absences for whatever cause; hence, no excused absences will be granted by the Office of the Dean (except no. 3 below), and telephone explanations for absences are not required.

1. Students who come late will be recorded as absent. When an instructor is unable to meet his class at the appointed time the class will disband after ten minutes.
2. No 'cuts' are allowed. In order to provide for reasonable, unavoidable sporadic absences, the University tolerates during the semester an absence from a course double the number of times the class meets per week. Thus, if the class meets: twice a week, four absences will be tolerated; three times a week, six; etc.
3. Absences incurred while engaged in authorized student activities will be excused, provided faculty members directing such activities send word of each student and specific classes concerned to the Dean's Office and secure approval prior to the absences.
4. Absence from class does not excuse the student from any course requirements and he must assume full responsibility for making up the work that he has missed unless explicitly excused by the instructor.
5. In order that the student may know when he is in danger of excessive absences he will keep his own account of absences. The responsibility for awareness of his attendance status is the student's.
6. When a student's absences have been excessive.
 - (a) he is ineligible to write the semester examination in the course, and a WF (Withdrawal Failure) will be entered on the University records.
 - (b) When a student has been unavoidably absent for a prolonged period because of serious illness or an equally compelling reason, the application of this regulation may be modified upon the recommendation of the instructor with the approval of the Dean. This will be considered only when the following conditions are verified:

- (2) the appeal is made formally in writing;
- (3) it is supported by doctor's certificate or similar official document (covering about 50% of the total number of absences).
- (4) No case will be considered when the absences from a course exceed four times the number of times the class meets per week.

EXAMINATIONS AND GRADES

The school year is divided into two semesters. There are two examinations in the first term, one about the third week of November, the other about the third week of January. Each of these examinations is valued at 20% of the year's total mark in each course. The results of the second semester count for 60% of the year's total mark.

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.

No credit is given for a course consisting of two parts (v.g. Latin Composition, Latin Authors) unless each part is passed at the same examination.

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

A student who receives a mark between 40% and 50% is eligible to take 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 fail.

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

A special examination is an examination written outside the time assigned for regular and supplemental examinations. Permission to write a special examination is granted rarely and only for extraordinary reasons.

Fees for supplemental and special examinations are listed under 'Particular Fees'.

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 final 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 courses 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 connected 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,

King's College, Dalhousie, Saint Mary's, Nova Scotia
Memorial College, Saint Francis Xavier, Memorial, Saint Dunstan's and
University of Wales College.

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

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

For information and application blanks may be obtained from Dean
J. H. Street, Director, Atlantic Summer School for Advanced Business
Education, P. O. Box 1321, Halifax, N. S.

FACULTIES AND COURSES

ARTS

SCIENCE

COMMERCE

ENGINEERING

JOURNALISM

PRE-PROFESSIONAL COURSES

HONOURS COURSES

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 some 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 the Calendar.
2. The completion of the following prescribed courses:
 - a. A minimum of two courses in Theology, or equivalent courses 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.
 - e. One course in a modern language.
 - f. One course in History.
 - g. One course in Mathematics.
 - h. One Natural Science course (Chemistry, Physics, Biology, Geology, Astronomy).
3. Concentration of work to the amount of not fewer than four courses in one department with supporting courses chosen with the approval of the department concerned.

Credit will be given for **MAJOR** work when a 60% is attained in not fewer than five courses as determined by each department, and supporting courses chosen with the approval of the department concerned. At the discretion of the department a formal essay may be required. A combined Major will be subject to the regulations of the department concerned.

The Registrar for Sophomore year students should decide the subjects which they intend to do their concentration or Major, as all preliminary courses in concentration or major fields should be completed before

Six courses is the normal study 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 Studies and the department of concentration or major work.

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 1	Theology 2	Theology 3	Theology 4
English 1	English 2	Philosophy 2	Philosophy 3
Mathematics 1A	Philosophy 1	elective	elective
Latin 1	Latin 2	elective	elective
History 1	Modern Language	elective	elective
Natural Science	elective		

ARTS-JOURNALISM COURSE

Students who are interested in Journalism and who manifest ability and application are urged to follow the combined Arts-Journalism syllabus. For this combined syllabus the following subjects are added to the Arts degree requirements: Journalism 1 (and Assignment Work), Journalism 2, Journalism 3.

ARTS AND COMMERCE COURSE

If the courses in Accounting 1 and 2, and two courses in Business Administration and/or Economics (which may be Arts electives) are completed before graduating in Arts, the degree of Bachelor of Commerce can be obtained in one additional year. This additional year consists of five courses of which four must be specifically Commerce and so selected as to fulfil concentration requirements.

SCIENCE

The curriculum in Science is designed to give the student a solid year 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.

The completion of the following prescribed courses:

- a. A minimum of two courses in Theology, or equivalent courses 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 foreign language courses at the University level. French and/or German are recommended.
- f. A minimum of one course in Chemistry, one course in Physics, and one course in Biology or Geology or Astronomy.

g. Concentration of work to the amount of not fewer than four courses in one department, with supporting courses chosen with the approval of the department concerned.

h. Credit will be given for **MAJOR** work when a 60% is attained in a concentration of not fewer than five courses as determined by each department, with supporting courses chosen with the approval of the department concerned. At the discretion of the department a formal essay, or report on a scientific laboratory project, may be required.

Students for the degree of Bachelor of Science will take their concentration or Major in a Natural Science subject: Chemistry, Physics, Biology, Geology, Mathematics. A combined Major will be subject to requirements of the departments concerned.

Students for Sophomore year students should decide the subject in which they intend to do their concentration or Major, as all preliminary work in concentration or major fields should be completed before Junior year.

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

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 1	Theology 2	Theology 3	Theology 4
English 1	English 2	Philosophy 2	Philosophy 3
Natural Science	Philosophy 1	elective	elective
Mathematics 1E	Mathematics 2	elective	elective
Language	Language	elective	elective
Natural Science	Natural Science		

ENGINEERING AND SCIENCE COURSE

Students who have obtained the Diploma in Engineering or equivalent standing 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 3 or 4, Philosophy 3, Mathematics 4, 7 or 10, and two electives from Chemistry 4, 6, 10, 11, Physics 4, 5, 7, Engineering Thermodynamics.

Students who plan to continue to the B.Sc. degree after the Diploma in Engineering should elect Philosophy 1 in first year, and may be permitted to substitute Philosophy 2 for Theology in third year.

B.SC. COURSE FOR INDUSTRIAL ARTS TEACHERS

The Bachelor of Science degree can be obtained in three years by students who hold a Nova Scotia Mechanics Science Diploma. General University regulations for admission, advanced standing, attendance, residence, etc., obtain. The following is an outline of the required programme:

FIRST YEAR	SECOND YEAR	THIRD YEAR
English 1	English 2	Philosophy 2
History 1	Philosophy 1	(or elective)
French 1	French 2	Geology
Physics 1	Chemistry 1	Physics 3
Mathematics 1E	Mathematics 2	Mechanics 1 and 2
Descriptive Geometry	Survey 1	Mechanics 3
		Mechanics 5

COMMERCE

The course leading to a degree of Bachelor of Commerce is offered to students who desire the advantage of higher education and want, at the same time, to prepare themselves for a business career. 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 3, 4, 5, and Economics 5.

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 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 foreign language courses at the University level. French is recommended.
 - (e) Two courses in Accounting.
 - (f) Two courses in Economics.
 - (g) One course in Mathematics.
3. Concentration of work to the amount of not fewer than four courses in Accounting, Business Administration, or in Economics, with supporting courses chosen with the approval of the department concerned.

Note. Students registered in the faculty of Commerce in September 1957, or thereafter, will be able to do **MAJOR** work in accounting, Business Administration, or Economics. To obtain credit for major work a student must achieve a 60% in each of not fewer than five courses in the subject concerned, with supporting courses chosen with the approval of the department. At the discretion of the department a formal essay, or a report on a prescribed case or project, may be required.

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

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

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
Theology 1	Theology 2	Theology 3	Theology 4
English 1	English 2	Philosophy 2	Philosophy 3
Mathematics 1A	Philosophy 1	Accounting 2	elective
Language	Accounting 1	elective	elective
Economics 1	Economics 2	elective	elective
(or History 1)	Economics 5		
elective			

N. B. The Junior and Senior year electives will depend upon the concentration or major work. The programme chosen must have 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 a 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 one 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.

REQUIREMENTS IN ENGINEERING

The requirements for the Diploma in Engineering are as follows:

FIRST YEAR	SECOND YEAR	THIRD YEAR
Theology 1	Theology 2	Theology 3
Math 1	English 2	Geology 1
Mathematics 1E	(or Economics 2)	Mathematics 3
Physics 1	Mathematics 2	Physics 3
Chemistry 1	Physics 2	Mechanics 2
Science (Humanity	Chemistry 2	Mechanics 5
or Social Science)	Descriptive Geometry	Mechanics 1
	Drawing 2	—Mechanics 3
	—Engineering Problems	Survey 2
	Survey 1 (and	—Mechanics 4
	Survey camp)	

Some of the above requirements are one semester courses. For details see 'Courses of Instruction'.

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

Students who plan to enter the Department of Chemical Engineering at the Nova Scotia Technical College are required to have had a full year of organic chemistry. This course may, at the discretion of the Department of Engineering, be substituted for Geology, or one course in Engineering Drawing, or one of the electives.

ARCHITECTURE

Beginning September 1961, the Nova Scotia Technical College will offer the final four years of a six year course leading to the Degree of Bachelor of Architecture. Until and including September 1962, the requirements for admission to the Nova Scotia Technical College in this course will be the completion of the first two years of the Diploma Course in Engineering at Saint Mary's University and with the recommendation of the Department of Engineering of Saint Mary's University.

ENGINEERING AND SCIENCE COURSE

The results of this programme see under 'Science'.

Students who plan to continue to the B.Sc. degree after the Diploma in Engineering should elect Philosophy 1 in first year, and may be permitted to elect Philosophy 2 for Theology in third year.

JOURNALISM

The curriculum of the School extends over three years and leads to the Diploma in Journalism. It includes specialized courses designed to teach the fundamentals of work on the reportorial staff of a daily newspaper, and in the advertising department. Other courses introduce the student to editorial and feature writing, to work for radio and news agencies, to magazine, free lance and television news writing, and to public relations. All the specialized courses are taught by professional journalists. Practical assignments are stressed in this part of the curriculum.

DIPLOMA IN JOURNALISM

The requirements for the Diploma in Journalism are outlined as follows:

FIRST YEAR

Theology 1
English 1
Philosophy 1
(or elective)
French 1
History 1
Journalism 1

SECOND YEAR

Theology 2
English 2
Philosophy 2
(or elective)
French 2
History
Journalism 2

THIRD YEAR

Theology 3
English
Philosophy 3
(or elective)
Political Science
Sociology
Journalism 3

ARTS-JOURNALISM COURSE

Journalism students at Saint Mary's are usually advised to combine the course in Journalism with that of Arts, completing requirements for the Diploma in Journalism in three years and for the Degree of Bachelor of Arts in a fourth year, or following the Arts-Journalism program announced under 'Arts'.

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. Catalogs 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

timetable will allow the completion of minimum pre-requirements in less than the full time required for the Bachelor's degree.

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

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

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

College training in preparation for the study of medicine should provide 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. 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.)

Students in the sciences must include Biology 1, 2; Chemistry 1, 2, 4; Mathematics 1; Physics 1. Of the remaining eight courses (of a required minimum of eleven courses), at least seven must be taken in the Humanities. English 1, 2, Philosophy 1, History, are required courses. At least two natural science courses must be included in the minimum programme.

Pre-dental. Pre-dental students must complete a minimum of ten science courses which include the seven science courses listed above, along with English 1 and two electives from English 2, French 1, German 1, Italian 1, Philosophy 1.

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, under the supervision of their plan of studies controlled by the department concerned. At the time of registration 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 75% average in his previous work, and an 80% standing in the subject in which he wishes to do honours. 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 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 75% 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

MASTERS OF SOCIAL WORK

BACHELOR OF EDUCATION

MASTERS 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, Moncton, Allison, Saint Francis Xavier, and University of King's College, grant 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 acceptance as a candidate for the Master of Social Work degree, or for the Diploma in Social Work, is a Bachelor of Arts, or an equivalent degree, with emphasis on social sciences and related fields. To attain the Master's degree normally requires two years of study and field work after completing a Bachelor's degree.

Further information regarding courses, requirements for admission, living costs and other matters, may be obtained by addressing: The Maritime School of Social Work, 150 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, by interview and testing, the professional aptitude requirements of the Committee on Admissions.

For the degree of **Master of Arts in Education**: Candidates must hold the degree of Bachelor of Education with second class honours or equivalent. They must further satisfy by interview and testing, the graduate requirements of the Committee on Admissions.

REQUIREMENTS

For the degree of Bachelor of Education: Candidates must complete the satisfaction of the Committee on Studies a programme including professional courses in Education and one elective course in the field, together with one hundred hours of practice teaching and the successful completion of a professional paper.

For the degree of Master of Arts in Education: Candidates, having satisfactorily completed the requirements for the degree of Bachelor of Education or their equivalent, must satisfactorily complete five graduate courses together with an academic thesis acceptable to the Graduate Re-

COURSES OF INSTRUCTION

ACCOUNTING	GREGORIAN CALENDAR
ARCHAEOLOGY AND ART	HISTORY
ASTRONOMY	HISTORY OF ART
BIOLOGY	HISTORY OF SCIENCE
BUSINESS ADMINISTRATION	JOURNALISM
CHEMISTRY	LITERATURE
DRAWING	MATHEMATICS
ECONOMICS	MECHANICS
EDUCATION	PHILOSOPHY
ENGINEERING PROBLEMS	PHYSICS
ENGLISH	POLITICAL SCIENCE
FRENCH	PSYCHOLOGY
GEOLOGY	SOCIOLOGY
GERMAN	SURVEYING
	THEOLOGY
	THERMODYNAMICS

ACCOUNTING

Accounting 1:

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

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

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

COURSE: Two hours a week, two semesters.

Full course.

COURSE: Two hours a week, two semesters.

Accounting 2:

TEXT: *Accounting 1.*

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

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

COURSE: Two hours a week, two semesters.

Full course.

COURSE: Two hours a week, two semesters.

Accounting 3:

TEXT: *Accounting 1 and 2.*

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

TEXT: *Principles of Accounting, Advanced*—Finney and Miller

TEXT: *Principles of Accounting, Advanced*—Finney and Miller

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

COURSE: Two hours a week, two semesters.

Full course.

Accounting 4:

TEXT: *Accounting and Taxation.*

TEXT: *Accounting 1 and 2.*

The principles, procedures, and managerial uses of cost accounting will be covered 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)

TEXT: *Canadian Income Tax for Accountants*—Leonard (C.C.H. Canadian

COURSE: Two hours a week, two semesters.

Full course.

Accounting 5:

Auditing.

Prerequisite: Accounting 1, 2.

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.); *Montgomery's Auditing*—(The Ronald Press Co.); *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 1:

Our cultural heritage: A survey of archaeological discoveries and explorations at key sites in western and southern Asia. Illustrated with filmstrips and slides.

The lectures are based on the works of: J. H. Breasted, V. Gordon Childe, Georges Contenau, Henri Frankfort, Seton Lloyd, Stuart Piggott, E. A. Speiser, Sir Mortimer Wheeler, Sir Leonard Woolley and others.

Lectures: Three hours a week, two semesters.

Full course.

ASTRONOMY

Astronomy 1:

Descriptive Astronomy

Prerequisite: Mathematics 1.

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, 1960* (R.A.S.C.)

Lectures: Two hours a week, two semesters.

Full course.

Laboratory: Two hours a week, two semesters.

Astronomy 2:

Celestial Mechanics

Prerequisite: Astronomy 1, Mathematics 3.

This course may be counted as an advanced mathematics credit.

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

TEXT: *An Introduction to Astrodynamics*—R. M. L. Baker and M. W. Makemeon (Academic Press)

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

LECTURES: Three hours a week, two semesters.

Full course.

Astronomy 3:

History of Astronomy

Astronomy in Iraq, Egypt, China, Asia Minor, Greece, Alexandria, India, Rome. The Muslims, Saracens and Moors. The Translators. The Thirteenth Century. The Renaissance in Astronomy. Copernicus to the present day.

TEXT: *The History of Astronomy*—G. Abetti (Schurman)

LECTURES: Three hours a week, two semesters.

Full course.

BIOLOGY

Biology 1:

General Biology

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

TEXT: To be announced.

LECTURES: Three hours a week, two semesters.

Full course.

LABORATORY: Three hours a week, two semesters.

Biology 2:

Comparative Vertebrate Anatomy

Prerequisite: Biology 1.

This course is offered in alternate years. To be given in 1961-62.

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 excretory systems.

TEXT: To be announced.

LECTURES: Two hours a week, two semesters.

Full course.

LABORATORY: Six hours a week, two semesters.

BUSINESS ADMINISTRATION

Business Administration 1:

Marketing

The entire marketing process is studied by the case method. Particular emphasis is given to product and pricing policy, marketing research, the function of advertising in promotion, recognition and stimulation of demand.

TEXT: *Problems in Marketing*—McNair, Brown, Leighton, England (McGraw-Hill) second Edition.

Lectures: Three hours a week, two semesters.

Full course.

Business Administration 2:

Finance

Prerequisite: Accounting 1.

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 3:

Principles of Control and Production

Prerequisite: Accounting 1.

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 4:

Human Relations

Conflicting economic, technological, and human factors are examined, stressing personnel administration problems generated by these complex interrelationships.

Organizational behavior is analyzed in classroom discussions based on actual business situations.

TEXT: To be announced.

Lectures: Three hours a week, two semesters.

Full course.

Business Administration 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 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*—Mack, Garrett, Haskins, & Verhoek (Ginn)

Lectures: Three hours a week, two semesters.

Full course.

Laboratory: Three hours a week, two semesters.

Chemistry 2:

Elementary Physical and Analytical Chemistry

Prerequisite: Chemistry 1.

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 4:

Organic Chemistry

Prerequisite: Chemistry 1.

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

TEXT: *Organic Chemistry*—Hansch, Helmkamp (McGraw-Hill); *Laboratory Book of Elementary Organic Chemistry*—Lowy and Baldwin (Wiley) Third Edition.

Lectures: Two hours a week, two semesters.

Full course.

Laboratory: Three hours a week, two semesters.

Chemistry 6:

Physical Chemistry

Prerequisite: Mathematics 2, Chemistry 2.

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 7:

Advanced Quantitative Analysis

Prerequisite: Chemistry 2.

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 8:

Advanced Inorganic Chemistry

Periodic classification of the elements, and valence theory.

Lectures: Two hours a week, two semesters.

Full course

Chemistry 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 11:

Chemical Thermodynamics

Prerequisite: Chemistry 6.

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 15:

Theory of Physical Chemistry Measurements

Prerequisite: Chemistry 2.

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 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 19:

Kinetic Theory

Prerequisite: Chemistry 6.

Lectures: Two hours a week, two semesters.

Full course.

DRAWING

Drawing 1:

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 Drawing 2 and Descriptive Geometry.

TEXTS: *Technical Drawing—Giesecke, Mitchell and Spencer* (Macmillan); *Lessons in Lettering, Book I—French and Turnbull* (McGraw-Hill)

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

Drawing 2:

An advanced course in engineering drawing.

TEXT: *Creative Problems for basic Engineering Drawing—McNeary, Weidhaas, Kelso* (McGraw-Hill)

Lectures and Laboratory: Three hours a week, one semester.

Drawing 3:

Descriptive Geometry

Prerequisite: Engineering Drawing.

Problems on points, lines; plane and warped surfaces and developments. 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, two semesters.

Laboratory: Three hours a week, two semesters.

ECONOMICS

Note: Courses in Business Administration 1 and 2 are allowed to students doing a Major in Economics.

Economics 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 O'Connell (Prentice-Hall)

Lectures: Three hours a week, two semesters.

Full course

Economics 2:

General Principles of Economics

This course is a prerequisite for any subsequent Economics course. Economics 4 may be taken concurrently.

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: To be announced; *Rerum Novarum*—Leo XIII; *Quadragesimo Anno*—Pius XI.

Lectures: Three hours a week, two semesters.

Full course

Economics 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: *Canada Yearbook, 1961* (Queens Printer)

Other text to be announced.

Lectures: Two hours a week, two semesters.

Full course

Economics 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.
Regular compulsory assignments.

Full course.

Economics 5:

Commercial Law

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) *Dominion Companies Act, Bills of Exchange Act*

Lectures: Three hours a week, two semesters.

Full course.

Economics 6:

Advanced Economic Analysis

Prerequisite: Economics 2.

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.

TEXTS: To be announced.

Lectures: Three hours a week, two semesters.

Full course.

Economics 7:

Money, Banking, International Payment

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: *Bank of Canada Operation and Policy*—E. P. Neufeld (Univ. of Toronto Press)

Lectures: Three hours a week, two semesters.

Full course.

Economics 8:

Business Cycle Theory

Prerequisite: Economics 7.

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

TEXTS: To be announced.

Lectures: Three hours a week, two semesters.

Full course.

Economics 9:

Applied Economics

Prerequisite: Economics 3, 6 and 4; Economics 8 to be taken concurrently. A survey and analysis of current Canadian and world problems.

TEXTS: To be announced.

Lectures: Two hours a week, two semesters.

Full course.

EDUCATION

Education 1:

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.

TEXTS: *History of Education*—McCormick and Cassidy (Cath. U. Press); *Philosophy of Education*—Labelle (Folio)

Lectures: Three hours a week, two semesters.

Education 2:

Psychology of Education

Prerequisite: Psychology 1.

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.

Education 3:

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.

Education 4:

Guidance

An elementary study of vocational leadership and advising based upon current methods, standards and procedures of evaluation.

TEXT: *Principles of Guidance*—Jones

Lectures: Three hours a week, two semesters.

Education 5:

Practice Teaching

One hundred hours of observation and practice teaching in the public school system and twenty hours of critically evaluated teaching in a model high school.

Education 6:

Educational Testing

An elementary study of the current measurement and evaluation methods as applied to the learner.

2022: Psychological Testing—Anastasi (Macmillan)
Hours: *Three hours a week, two semesters.* *Full course.*

2023: Educational Administration
The principles, and practical management of elementary and high school in Canadian public school systems with emphasis on Nova Scotia.

2024: Modern Administration of Secondary Schools—Douglass
Hours: *Three hours a week, two semesters.* *Full course.*

2025: Sociology of Education
The sociological context of the school with emphasis on Canadian educational environment.

2026: The Sociology of Education—Habib (Folio)
Hours: *Three hours a week, two semesters.* *Full course.*

2027: Canadian Structure
Graduate course.
A specialized study of secondary and higher educational course syllabi and their inter-relations with the aims of Education.
Hours: *Three hours a week, two semesters.* *Full course.*

2028: Statistical Measurement
An advanced course in the current mathematical methods of social educational assessment.
Hours: *Three hours a week, two semesters.* *Full course.*

2029: Problems of Administration
Graduate course.
Individually directed and specialized study of the executive requirements for institutional direction in conjunction with Education 7.
Hours: *Three hours a week, two semesters.* *Full course.*

2030: Research Methods
Graduate Seminar.
An advanced seminar for the preparation and presentation of research papers leading to professional papers and theses for the Master's degree.
Hours: *One and one-half hours a week, two semesters.*

Education 37:

Prerequisite: Education 27.

Tutorial course in the political, sociological, and economic factors in the Canadian school environment.

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

English 24:

Survey and Criticism of British Literature

Graduate course.

Analysis for teachers of the main forms and expository of British literature from Beowulf to Chesterton.

Lectures: *Three hours a week, one semester.*

English 34:

Prerequisite: English 24.

Tutorial course in the Augustan essayists and in the Victorian novelists with applications of the schools of criticism.

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

Philosophy 21:

Theory of Educational Aims

Graduate course.

Individually directed and specialized study of the general educational aims of Plato and Aristotle in conjunction with the advanced work in Philosophy 7.

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

Philosophy 31:

Prerequisite: Philosophy 21.

Tutorial course in the ancient philosophies and their modern counterparts.

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

Psychology 22:

Psychology of Communication

Graduate course.

Individually directed and specialized study of problems in the communication of ideas in the classroom, in conjunction with Education 2.

TEXTS: *The Roots of a New Rhetoric*—Fogarty (Columbia)

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

Psychology 32:

Prerequisite: Psychology 22.

Tutorial course in the nature of the psychic operation and the phenomena in ancient and modern psychologies.

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

ENGINEERING PROBLEMS

Engineering Problems:

Prerequisite: Mathematics 1, Mathematics 2 (concurrently).

The application to practical problems of all mathematics and physics must be covered or presupposed. The course serves as a review of acquired knowledge and aims at developing thoroughness and accuracy.

NOTE: To be announced.

Hours: Two hours a week, one semester.

ENGLISH

General 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 general course is successfully passed.

Hours: Two hours a week, two semesters.

No course credit.

English 2:

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 and participation are compulsory.

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

Hours: Two hours a week, two semesters.

Full course.

English 3:

Prerequisite: English 1. This course is a prerequisite for any subsequent English course.

Study Facts: An examination of the forms used by the major English writers. Works by Chaucer, Shakespeare, Spenser, Dryden, Donne, Milton, Wordsworth, Shelly, Coleridge, Newman, Lamb, Emily Bronte, etc.

Composition: Compulsory theme writing; research methods.

Speech: Forms of Public Speaking; attendance and participation compulsory.

TEXTS: To be announced; *Palgrave's Golden Treasury*; *Pocket Dictionary and Thesaurus*.

Hours: Two hours a week, two semesters.

Full course.

English 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.

English 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 Shaw (Harper)

Students are advised to see the department for summer reading.

Lectures: Three hours a week, two semesters.

English 5:

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

Composition: Formal term papers, critical analyses.

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

Students are advised to see the department for summer reading.

Lectures: Three hours a week, two semesters.

English 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.

English 7:

English Literature of the Victorian Age. Poetry: Tennyson, Keats 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, to semesters.

English 4

Prerequisite: English 3. **Course Description:** An examination of the language and literature of Shakespeare and his contemporaries, English and Scottish.

Composition: Formal term papers, critical analyses.
TEXTS: To be announced.
Hours: Three hours a week, two semesters. *Full course.*

English 5

Prerequisite: English 4. **Course Description:** Introduction to Literary Criticism. A review of the major phases and tendencies in the development of literary theory, instruction in the techniques of practical criticism, and the analysis of prescribed literary tests.

TEXTS: *Literary Criticism: A Short History*—Wimsatl & Brooks
Anthology of English Verse—Hayward.

English 6

Prerequisite: English 1 and 2. **Course Description:** *Nineteenth Century Literature:* Analysis and criticism; dramas, poetry, short stories, novels.

Composition: Essays, formal and informal, imitative of modern prose style; speeches, debates, radio talks.
TEXTS: *Four Modern Plays*—Ibsen, Shaw, O'Neill, Miller (Rinehart)
No Waste Land and Other Poems—T. S. Eliot (Faber and Faber);
Modern Verse—Jones (Oxford Univ. Press); *Short Story Masterpieces*—Kernan and Erskine (Dell); Library.
Hours: Three hours a week, two semesters. *Full course.*

English 7

Prerequisite: Two University English courses. **Course Description:** *Shakespeare:* Seven prescribed plays. The Sonnets of Shakespeare. Weekly themes assigned on the background of Shakespeare, and studies of his time, critical studies of the comedies.

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

English 8

Prerequisite: Two University English courses. **Course Description:** *The Novel:* Historical development of the English novel. Critical studies on authors studied. First semester: Defoe to Dickens. Second semester: Thackeray to twentieth century.

Prerequisite: students should consult the instructor and arrange for extra reading.
Hours: Three hours a week, two semesters. *Full course.*

FRENCH

Pre-College French:

A course designed for students not sufficiently grounded in matriculation French to begin a College French course. A rapid survey of French grammar along with composition and easy passages for translation.

TEXT: *The New Fundamental French*—Micks and Long (Holt & Co. Univ. Press)

Lectures: Three hours a week, two semesters.

No Course Credit

French 1:

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.

TEXT: *French Review Grammar*—Dondo and Ernst (Holt & Co.)

Lectures: Three hours a week, two semesters.

Arrangements will be made for classes in spoken French.

Full course

French 2:

Prerequisite: French 1.

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 (Hachette); *French Review Grammar*—Dondo and Ernst (Holt & Co.); *Harrap's Concise French-English Dictionary*.

Lectures: Three hours a week; two semesters.

Arrangements will be made for classes in spoken French.

Full course

French 3:

An Introduction to the History of French Literature

Prerequisite: French 1 and 2.

This course is a prerequisite for French 4 to 6 inclusive for candidates for Honours who will take not more than one of these courses concurrently with French 3. The lectures are given in French.

No student will be allowed to count French 3 for credit unless he satisfies the examiner in both literature and composition.

TEXTS: To be announced.

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

Composition, one hour a week, two semesters.

Full course

French 4:

French Literature of the Seventeenth Century

Prerequisite: French 1-3. The lectures are given in French.

TEXTS: To be announced.

LECTURE: Three hours a week, two semesters.

Full course.

French 5:

French Literature of the Eighteenth Century

Prerequisite: French 1-3. The lectures are given in French.

TEXTS: To be announced.

LECTURE: Three hours a week, two semesters.

Full course.

French 6:

French Literature of the Nineteenth Century

Prerequisite: French 1-3. The lectures are given in French.

TEXTS: To be announced.

LECTURE: Three hours a week, two semesters.

Full course.

French 7:

The French Novel of the Nineteenth and Twentieth Centuries

Open to Honours students only. The lectures are given in French.

TEXTS: To be announced.

LECTURE: Two hours a week, two semesters.

Full course.

French 8:

French Poetry of the Nineteenth Century

Open to Honours students only. The lectures are given in French.

TEXTS: To be announced.

LECTURE: Two hours a week, two semesters.

Full course.

GEOLOGY

Geology 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: To be announced.

LECTURE: Five hours a week, two semesters.

Full course.

LABORATORY OR FIELD WORK: Three hours a week, two semesters.

Geology 2:

Mineralogy

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

TEXTS: To be announced.

Lectures: Three hours a week, two semesters.

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

Full course.

Geology 3:

Optical Mineralogy and Petrology

Prerequisite: Physics 1, Chemistry 1, Geology 2.

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.

Laboratory: Three hours a week, two semesters.

Full course.

Geology 4:

Historical Geology

Prerequisite: Geology 1.

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 Shuman.

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

Lectures: Three hours a week, two semesters.

Laboratory: Three hours a week, two semesters.

Full course.

GERMAN

German 1:

This is an intensive course designed to give a solid foundation in basic German grammar and a sufficient acquaintance with the language to be read with some facility.

TEXT: To be announced.

Lectures: Three hours a week, two semesters.

Full course.

German 2:

Prerequisite: German 1.

Basic German grammar is completed at the beginning of this course and an introduction given to dictation and oral expression. The major part of the course is devoted to translation and discussion of selected literary and scientific readings.

TEXTS: to be announced.

Lectures: Three hours a week, two semesters.

Full course.

GREGORIAN CHANT

With permission of the Dean these courses may replace required history courses.

Gregorian Chant 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* (Gregorian Institute of America); *Cantate Domino* (Egami).

COURSE: Two hours a week, two semesters.

Full course.

LECTURES: Two hours a week by arrangement.

Gregorian Chant 2:

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

TEXTS: as for Gregorian Chant 1.

COURSE: Two hours a week, two semesters.

Full course.

LECTURES: Two hours a week by arrangement.

HISTORY

Survey of European History

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

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

COURSE: Two hours a week, two semesters.

Full course

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.

TEXTS: *Canada*—Edgar McInnis (Rinehart)

COURSE: Two hours a week, two semesters.

Full course.

Tudor and Stuart England

Prerequisite: One University history course.

The history of England under the Tudors and Stuarts.

TEXTS: To be announced.

COURSE: Two hours a week, two semesters.

Full course.

History 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 (Millan)

Lectures: Two hours a week, two semesters.

History 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.

History 6:

Europe, 1600-1815

Prerequisite: One University history course.

The history of Europe from 1600 to 1815.

TEXT: To be announced.

Lectures: Three hours a week, two semesters.

History 7:

England, 1715-present

Prerequisite: One University history course.

The history of England from 1715 to the present day.

TEXT: To be announced.

Lectures: Two hours a week, two semesters.

History 8:

Age of Enlightenment

Prerequisite: One University history course.

A detailed study of the Age of Enlightenment and its implications.

TEXT: To be announced.

Lectures: Two hours a week, two semesters.

HISTORY OF ART

History of Art 1:

Prehistoric art; the art of Ancient Egypt, Crete; Classical Greek and Roman art; Early Christian Art; the Romanesque and Gothic 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 (United Univ. Press) Second Edition; *Histoire de l'art, Vcl. I-II*—F. Lemerle (Presses Universitaires de France, Paris); *Geschichte der Kunst, Vol. I-II*—R. Hamann (München)

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

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

Full course.

History of Art 2:

LECTURES: the Age of the Baroque and Rococo; Flemish and Dutch art; Neo-classicism; Romanticism; Impressionism, Neo-impressionism; **Modernism:** the art of the 20th century.

TEXTS and READINGS: As for History of Art 1

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

Full course.

HISTORY OF SCIENCE

History of Science 1:

LECTURES: the outline of scientific progress prior to the Black Death in Babylonia, Egypt, India, 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

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

Full course.

History of Science 2:

LECTURES: 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 History of Modern Physics*—Crew

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

Full course.

JOURNALISM

Journalism 1:

LECTURES: *Introduction to Journalism:* History of press, radio and TV news; development of news agencies and feature bureaux; news values; ethics, news information; public relations; writing styles (with practical exercises in news and in offices).

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

Journalism 2:

Reporting and news assignments for daily and weekly newspapers, radio and magazines; copy and proofreading, headline writing, *copy* writing; work of the photographer and cartoonist; radio and TV news broadcasts and editing; advertising.

Lectures: Two hours a week, two semesters.

Journalism 3:

Literary styles and criticism; writing opinions for newspapers and radio; writing features for newspapers and radio stations; lectures on specialized reporting of politics, civic affairs, the courts, sports, *society*, science.

Lectures: Two hours a week, two semesters.

LATIN

Pre-College Latin:

This course is designed for students not sufficiently grounded in Latin elements to begin a University course. A rapid study is made of Latin grammar and syntax, along with composition and easy passages for translation.

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

Lectures: Three hours a week, two semesters.

No course credit

Latin 1:

A thorough study of Latin syntax, particularly of Cicero's periodic sentence. Literature: Cicero's *Pro Archia*.

TEXTS: *Latin Course for Schools, Parts II and III*—Wilding (Faber and Faber); *Pro Archia*, Cicero

Lectures: Three hours a week, two semesters.

Full course

Latin 2:

Introduction to Latin Epic Poetry: emphasis is placed on the clear 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 translation); *Pro Lege Manilia*, Cicero; *Bradley's Arnold, Prose Composition*, Ex. 1-28.

Lectures: Three hours a week, two semesters.

Full course

Latin 3:

Prerequisite: Latin 2

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.

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

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.

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.

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

Full course.

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

Full course.

MATHEMATICS

Mathematics 1A:

Science and Commerce Mathematics

ALGEBRA: Exponents and radicals; variation; progressions; imaginary numbers 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; mensuration on heights and distances.

ANALYTICAL GEOMETRY: Cartesian co-ordinates; equation to straight

TEXTS: *College Algebra*—Rosenback, Whitman (Ginn) Fourth Edition; *Essentials of Plane Trigonometry*—Rosenback, Whitman, (Ginn)

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

Full course.

Mathematics 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 numbers; 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 2:

Analytic Geometry

Prerequisite: Mathematics 1E.

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

TEXT: *Introduction to Analytic Geometry*—Love and Rainville (Prentice-Hall)

Calculus

Prerequisite: Mathematics 1E.

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 3:

Advanced Calculus

Prerequisite: Mathematics 2.

Infinite series; Taylor's series; vector analysis; differential equations; Fourier's series; complex variable; matrices and determinants.

TEXT: *Mathematics of Physics and Modern Engineering*—Schubert and Redheffer (McGraw-Hill)

Lectures: Three hours a week, two semesters.

Full course

Mathematics 4:

Mathematical Analysis

Prerequisite: Mathematics 1E, 2, 3. (This course may not be used for credit by those who have a credit in Mathematics 3).

Advanced theory of equations, differential equations; Fourier series; complex variables; interpolations and curve fitting.

TEXT: To be announced.

Lectures: Three hours a week, two semesters.

Full course

Mathematics 5:

Elementary Geometry of Quadrics

A second course in analytic geometry terminating in a knowledge of the properties of quadric surfaces.

TEXT: *Analytic Geometry*—Smith, Salkover, Justice (Wiley)

Hours: Three hours a week, two semesters.

Full course.

Mathematics 6:

Elementary Theory of Equations

General theorems; methods of solutions; cubic and quartic equations; symmetric functions; resultants; discriminants and elimination.

TEXT: *The Theory of Equations*—Conkwright (Ginn)

Hours: Three hours a week, two semesters.

Full course.

Mathematics 7:

Higher Algebra and Calculus

Prerequisite: Mathematics 2.

Topics: algebra, vector spaces, and calculus.

TEXT: To be announced.

Hours: Three hours a week, two semesters.

Full course.

Mathematics 8:

Functions of a Real Variable

Continuous real variable; Dedkind's theorem; Weierstrass theorem; uniform continuity; loci in space; complex numbers; limits of a function; applications in analysis.

TEXT: *Mathematical Analysis, Vol. I*—Goursat-Hedrick (Ginn)

Hours: Three hours a week, two semesters.

Full course.

Mathematics 9:

Complex Variables

General theory of analytic functions; single-valued analytic functions; conformal mapping; analytic functions of several variables.

TEXT: *Mathematical Analysis, Vol. II*—Goursat-Hedrick (Ginn)

Hours: Three hours a week, one semester.

Half course.

Mathematics 10:

Differential Equations

Second-order differential equations; linear differential equations of any order; algebra of inverse operators; systems of linear differential equations; solution in power series.

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

Hours: Three hours a week, one semester.

Half course.

Mathematics 11:

Theory of Numbers

An introduction to the problems of the analytic number theory.

TEXT: *The Theory of Numbers*—Hardy and Wright (Oxford Press)

Lectures: Three hours a week, two semesters.

Full course

Mathematics 12:

Modern Geometry

An introduction to the mathematical presuppositions and relations which form the basis of modern geometry.

TEXT: *The Foundation of Geometry*—Robinson (Univ. of Toronto Press)

Lectures: Three hours a week, two semesters.

Full course

Mathematics 13:

Mathematical Statistics I

Prerequisite: Mathematics 2.

Definition; central tendency; dispersion; moments; regression; association and contingencies; simple, partial and multiple correlation; 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 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

MECHANICS

Mechanics 1:

Kinematics

Prerequisite: Draughting 1, Mathematics 2.

Displacement diagrams for linkages, instant centres, layout and drawing of some common mechanisms. Velocity determinations for linkages using instant centres and velocity vectors. Acceleration determinations 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)

LECTURE: Two hours a week, one semester.

LABORATORY: Three hours a week, one semester.

Mechanics 2:

Applied Mechanics

Prerequisite: Mathematics 2, Mathematics 3 (concurrently).

Topics: 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)

LECTURE: Three hours a week, two semesters.

Mechanics 3:

Graphic Statics

Prerequisite: Mechanics 2, Mathematics 2.

Topics: Equilibrium polygon and polygonal frames for all systems of loads; graphical representation of shear and moment for non-continuous beams; influence lines, bents including dead and live loads with fixed ends and ends free; simple cantilevers.

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

LECTURE: Two hours a week, one semester.

LABORATORY: Three hours a week, one semester.

Mechanics 4:

Strength of Materials

Prerequisite: Mathematics 3 (may be taken concurrently)

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

TEXT: *Elements of Strength of Materials*—Timoshenko-MacCullough (Van Nostrand)

LECTURE: Three hours a week, one semester.

Mechanics 5:

Materials for Engineering

Topics: Physical properties of common materials used in structures and machines; their manufacture and fabrication. Testing machines and standards.

TEXT: *Engineering Materials*—Committee on Engineering Materials

LECTURE: One hour a week, two semesters.

PHILOSOPHY

Philosophy 1:

Logic. Traditional formal logic; philosophical terminology; and of the intellect.

Introduction to Philosophy and Philosophy of Nature: Definition of Philosophy; main trends of philosophical thought, ancient Greece to the Middle Ages. Principles required and sufficient for philosophical explanation of inanimate and animate beings.

TEXTS: *Logic*—Kreyche (MacMillan); *Nature, Knowledge and God*—Benignus Gerrity (Bruce); *Introduction to St. Thomas*—Pegis (Modern Library)

Lectures: Three hours a week, two semesters. Fall 1955

Philosophy 2:

Prerequisite: Philosophy 1

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

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: *Nature, Knowledge and God*—Benignus Gerrity (Bruce); *Introduction to St. Thomas*—Pegis (Modern Library)

Lectures: Three hours a week, two semesters. Fall 1955

Philosophy 3:

Prerequisite: Philosophy 1 and 2.

General Ethics: The general principles of morality and the natural law.

Special Ethics: Rights and obligations, personal, domestic, civil, international, Marxism; international law and the ethics of war; medical and business ethics.

TEXT: *Ethics Folio*—H. J. Labelle, S. J.; *Right and Reason*—Pegis (Bruce)

Lectures: Three hours a week, two semesters. Fall 1955

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 (Doubleday)

Lectures: Three hours a week, two semesters. Fall 1955

Philosophy 5:

History of Modern and Contemporary Philosophy

Prerequisite: Philosophy 1 and 2.

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

TEXT: *A History of Modern European Philosophy*—Collins (Bruce)
Contemporary Philosophy—F. Copleston (Newman)

Hours: 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 areas.

Full courses.

PHYSICS

Physics 1:

General Physics

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

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

Hours: Three hours a week, two semesters.

Full course.

Hours: Three hours a week, two semesters.

Physics 2:

Heat, Light and Sound

Prerequisite: Physics 1, Mathematics 1E, Mathematics 2 (May be taken concurrently).

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

TEXT: *Heat, Light and Sound*—Sears and Zemansky (Addison-Wesley)

Hours: Three hours a week, two semesters.

Full course.

Hours: Three hours a week, two semesters.

Physics 3:

Electricity and Magnetism

Prerequisite: Physics 2, Mathematics 2, Mathematics 3 (concurrently)

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

TEXT: *Electricity and Magnetism*—Sears (Addison-Wesley)

Hours: Three hours a week, two semesters.

Full course.

Hours: Three hours a week, two semesters.

Physics 4:

Vector Algebra, Vector Analysis, and Mechanics

Prerequisite: Physics 2, Mathematics 3.

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 5:

Electrical Measurements and Electron Physics

Prerequisite: Mathematics 2, Physics 3.

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 7:

Atomic Physics

Prerequisite: Mathematics 2, Physics 3, Mathematics 3, (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); *Proceedings in Experimental Physics*—Strong (Prentice-Hill)

Lectures: Three hours a week, two semesters.

Full course

Laboratory: Three hours a week, two semesters.

Physics 9:

Physical Optics and Optical Instruments

Prerequisite: Physics 2, Mathematics 2 and 3.

Electromagnetic theory; interference; diffraction; polarization; spectrum analysis. The use of glass and quartz spectrographs, lumbar 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 11:

Introduction to Modern Physics

Prerequisite: Physics 3, Physics 5 (laboratory), Mathematics 3.

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*—Richtmeyer (McGraw-Hill)
COURSE: Three hours a week, two semesters. *Full course.*

POLITICAL SCIENCE

Political Science 1:

Introductory Political Science

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

TEXT: *Fundamentals of Government*—Schmandt and Steinbicker
(Stine)
COURSE: Three hours a week, two semesters. *Full course.*

Political Science 2:

Democratic Government

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

TEXT: *Democratic Government and Politics*—J. A. Corry, (Univ. of Toronto Press)
COURSE: Three hours a week, two semesters. *Full course.*

Political Science 3:

Soviet Russia

Not open to Freshmen

History, culture and political institutions. Marxism as it has been applied and modified by successive Soviet Rulers. Soviet International relations.

TEXT: Lecture notes; required readings.]
COURSE: Two hours a week, two semesters. *Full course.*

Political Science 4:

Canadian Government

Prerequisite: Political Science 1 or 2.

A study of the Canadian form of constitutional democracy.

TEXT: *Government of Canada*—R. McG. Dawson (Univ. of Toronto Press)
COURSE: Three hours a week, two semesters. *Full course.*

Political Science 5:

International Relations

Prerequisite: Political Science 1, History 1 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 6:

Comparative Study of Governments

Prerequisite: Political Science 1 or 2.

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 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 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 9:

The British Commonwealth

Prerequisite: Political Science 1 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.

SAINT MARY'S U. 1960-61

Political Science 10:

Political Theory

Prerequisite: Approval of the Department.

A lecture and seminar course dealing with political theory from Plato to the present.

TEXT: To be announced.

Credits: Two hours a week, two semesters.

Full course.

Hours: Two hours a week, two semesters.

PSYCHOLOGY

Psychology 1:

General Psychology

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

TEXT: *Psychology: The Unity of Human Behaviour*—Gannon (Ginn)

Credits: Three hours a week, two semesters.

Full course.

SOCIOLOGY

Sociology 1:

Introductory Sociology

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

TEXT: *Introductory Sociology*—Murray (Appleton).

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

Credits: Three hours a week, two semesters.

Full course.

Sociology 2:

Specific Social Problems

Students who offer Sociology 2 as an elective may not offer Sociology 1.

Social maladjustment and disorganization; poverty; housing; alcoholism; unemployment; population; gerontology; war; crime; divorce; mental health.

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

REFERENCES: *Contemporary Social Problems*—Phelph's and Henning (Prentice-Hall)

Credits: Three hours a week, two semesters.

Full course.

Sociology 3:

Criminology

Theories of criminality; development and prevention of delinquency 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 4:

Urban Sociology: A study of populated areas covering such aspects as: characteristic; organization; institutions; patterns and planning; activities; changing social relations.

REFERENCES: *Urban Sociology*—Quinn; *The Sociology of Urban Life*—T. L. Smith and C. A. McMahan.

Marriage and the family; Marriage Guidance

Family life in a changing society; family stability, family disorganization; recreational society. Structure, methods, problems of labour movements; social effects of industrial unrest; the role of government; industrial partnership, co-operative movements.

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

REFERENCES: Standard texts by: Zimmerman, Schmiedele, Clemens, Thomas, Healy, Doyle, etc.

Lectures: Three hours a week, two semesters.

Full course

Sociology 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 (Bruce)

Lectures: Three hours a week, two semesters.

Full course

① Bourke MA. Gonzaga
②

SURVEYING

Survey 1:

Prerequisite: Mathematics 1.

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 work requires the successful completion of Survey Camp.

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

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

Survey Camp

Prerequisite: Survey 1.

Survey 1 applied to practical surveying problems; the orderly collection and recording of survey data. Transit and tape surveys, curve surveys, plane table work, astronomical observations.

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

NOTE: *This is a field course immediately preceding opening of the fall term.*

Survey 2:

Prerequisite: Survey Camp.

A laboratory course during which data obtained in survey camp is used. The preparation of maps and charts, plotting and computation of corrections and earthworks; further astronomical observations as circumstances permit.

TEXTS: as for Survey Camp.

LECTURE and Field Work: *One hour a week, two semesters.*

THEOLOGY

Theology 1:

Source 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*—Fernan (LeMoyne Series)

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

Full course.

Theology 2:

Sources of Revelation

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

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

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

Theology 3:

Theology of Christian Living

The Church: juridical structure; Church and State; the sacraments 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.—Edmond Smith (Macmillan)

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

Theology 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.—Edmond Smith (Macmillan)

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

Theology 5:

Old Testament

Introduction to all the books of the Old Testament; attempt to discover, in the light of modern biblical scholarship, the divine message expressed in Israel's historical, legal, prophetic, poetical, sapiential, devotional, 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.*

Theology 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 God through grace, theological and moral virtues, gifts of the Holy Ghost, the sacraments.

TEXT: *The Spiritual Life*, Tanqueray
Lectures: *Three hours a week, two semesters.*

Full course.

THERMODYNAMICS

Engineering Thermodynamics:

Prerequisite: Physics 2, Mathematics 3.

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.

TEXT: *Thermodynamics*—Van Wylen (Wiley)

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

Full course.

CONVOCATION - - MAY 16, 1960

RECEIVING THE HONORARY DEGREE OF THE DOCTOR OF CIVIL LAW

John Francis Leddy, D.Phil., Dean of the College of Arts & Science
University of Saskatchewan

MEDALS AND PRIZES

ARTS

- Highest Aggregate in Four Years Arts..... Maynard Peter Eldridge
Gold Medal donated by Most Reverend J. Gerald Berry, D.D.
Highest Aggregate Third Year Arts..... John Albert Y...
Arts Faculty Ring donated by Honourable Harold Connolly
Highest Aggregate Second Year Arts..... David Albert Dy...
Donated by Halifax Newman Club Alumni
Highest Aggregate in First Year Arts..... Robert F. Be...
Thomas Anthony Tsou...

SCIENCE

- Highest Aggregate in Fourth Year Science..... Mary Anna Con...
Gold Medal donated by Saint Mary's University Ladies' Auxiliary
Highest Aggregate in Second Year Science..... Peter Fu Gar Fe...
Science Faculty Ring donated by Mr. and Mrs. W. A. Russell
Highest Aggregate in First Year Science..... Douglas McAdam Leath...

COMMERCE

- Highest Aggregate in Four Years Commerce..... James Mulcahy O'Re...
Gold Medal donated by Messrs. Henry Birks & Sons
Highest Aggregate in Third Year Commerce..... David Andrew H...
Commerce Faculty Ring donated by Mr. Alban M. Murphy in
memory of Flying Officer Patrick Scott Murphy

ENGINEERING

- Highest Aggregate in Three Years Engineering..... C. J. Hender...
Gold Medal donated by Mr. and Mrs. J. M. Inglis
in memory of their son, Delisle Inglis
Highest Aggregate in Second Year Engineering..... Chiew Phoe K...
Engineering Faculty Ring donated by Doctor R. W. McColough

-
- Public Speaking..... Richard Burton Hur...
Gold Medal in memory of Pilot Officer W. A. Haliburton
Radio Speaking (CHNS Trophy)..... David Stephen Can...
French..... Guy Robert Gallag...
Bronze Medal donated by the Cultural Relations Department
of the Republique Francaise

- PRESIDENT'S PRIZE**..... William Terrence McG...
University Ring awarded to the student who has made the
most outstanding contribution in scholarship and student
activities

GRADUATES—MAY 16, 1960

BACHELOR OF ARTS

Anderson, Robert Raymond.....	Halifax, Nova Scotia
Barrett, Edward Kenneth.....	Halifax, Nova Scotia
Beazley, Ronald William.....	Dartmouth, Nova Scotia
Brisholm, Jean Isabel.....	North Woodside, Nova Scotia
Doucette, Edward Gerard.....	Corner Brook, Newfoundland
Eldridge, Maynard Peter (Cum Laude).....	Saint John, New Brunswick
Hogan, Martin William.....	Grand Falls, Newfoundland
Hurley, Richard Burton.....	Dorchester, Massachusetts
Karkling, Waldemar Pablo.....	Chuqucamata, Chile
Kelly, Kenneth Michael.....	Halifax, Nova Scotia
MacGillivray, John Reginald.....	Halifax, Nova Scotia
McLean, Claude Henry.....	Halifax, Nova Scotia
Melanson, Alfred Joseph.....	Joggins, Nova Scotia
Mombourquette, Raymond J.....	Halifax, Nova Scotia
Power, Gerald Frederick.....	Halifax, Nova Scotia
Reyno, John Edward.....	Halifax, Nova Scotia
Roach, Ronald Joseph.....	Halifax, Nova Scotia
Ross, Brian Edward.....	Halifax, Nova Scotia
Shea, Robert A.....	Lee, Massachusetts
White, Robert James.....	Birch Cove, Nova Scotia
Wilson, Pauline Ethel.....	Halifax, Nova Scotia

BACHELOR OF SCIENCE

Chan, Joseph Shiu Cheung (Cum Laude)....	Hong Kong
Conrad, Mary Anna (Summa Cum Laude).....	Halifax, Nova Scotia
Conrad, Myra Louise (Summa Cum Laude).....	Halifax, Nova Scotia
Maloney, James Thomas.....	Halifax, Nova Scotia
Trainor, James Charles.....	Halifax, Nova Scotia

BACHELOR OF COMMERCE

Burke, Cyril Francis.....	Halifax, Nova Scotia
Erane, Paul Edward.....	Halifax, Nova Scotia
Dauphinee, Robert Oswald.....	Halifax, Nova Scotia
Greenough, John Angus, B.A.....	Westphal, Nova Scotia
McGrath, William Terrence.....	Halifax, Nova Scotia
Mahoney, Peter Michael, B.A.....	Halifax, Nova Scotia
O'Brien, Daniel William.....	Bedford, Nova Scotia
Oldfield, Patrick Michael.....	Halifax, Nova Scotia
O'Regan, James Mulcahy (Cum Laude).....	Halifax, Nova Scotia
Romo, Francis Chester.....	Halifax, Nova Scotia
Sampson, Thomas Edward.....	Halifax, Nova Scotia

DIPLOMA IN ENGINEERING

Blackie, Charles Edwin.....	Dartmouth, Nova Scotia
Carroll, Peter Brian.....	Waverley, Nova Scotia
Hartlen, Robert Earl.....	Timberlea, Nova Scotia
Henderson, Christopher John.....	Trinidad, West Indies
Hill, Gerald Wayne.....	Halifax, Nova Scotia

✓ Kontaras, Plato.....	Athens, Greece
✓ Pheaney, Harold George.....	Halifax, Nova Scotia
✓ Pothier, Pierre Gerard.....	Upper Wedgeport, Nova Scotia
✓ Thimot, Elie Joseph.....	Halifax, Nova Scotia
✓ Trainor, James Charles.....	Halifax, Nova Scotia

BACHELOR OF EDUCATION

Carroll, Rev. Lester, B.A. (Cum Laude).....	Montreal, P. Q.
Conrad, Glenda Faye, B.Sc.....	Tufts' Cove, Nova Scotia
Dicks, Louis Herbert, B.A.....	Halifax, Nova Scotia
Doiron, Louise, B.Sc.....	Halifax, Nova Scotia
Hanrahan, Elizabeth, B.A., (Magna Cum Laude)	Shearwater, Nova Scotia
McDonald, Marjorie, B.A.....	Halifax, Nova Scotia
McGown, William, B.Sc. (Cum Laude).....	Dartmouth, Nova Scotia
Miller, Ann McLellan, B.A. (Cum Laude).....	Armdale, Nova Scotia
Murphy, Charles Alton, B.A.....	Halifax, Nova Scotia
Patterson, Catherine Georgina, B.A.	
(Summa Cum Laude).....	Halifax, Nova Scotia
Poirier, Vincent Henry, B.A. (Magna Cum Laude)	Halifax, Nova Scotia

MASTER OF ARTS

Casey, Douglas Matthew, B.A., B.Ed.....	Halifax, Nova Scotia
Collie, Margaret Marion, B.Sc., B.Ed.	
(Cum Laude).....	Halifax, Nova Scotia
Earle, John Alfred, B.A., B.Ed. (Magna Cum Laude)	
.....	Halifax, Nova Scotia
Fogarty, Donald Wildred, B.A., B.Ed.	
(Cum Laude).....	Dartmouth, Nova Scotia
Guy, William Alexander, B.Sc., B.Ed.	
(Cum Laude).....	Halifax, Nova Scotia
Johnson, Margaret Ann, B.A., B.Ed.....	Halifax, Nova Scotia
LeGrow, Frank Pearson, B.A., B.Ed.	
(Magna Cum Laude).....	Dartmouth, Nova Scotia
Matheson, Rev. John Daniel, B.A. (Cum Laude)	
.....	Bridgewater, Nova Scotia
Myers, Clyde Vincent, B.A., B.Ed.	
(Summa Cum Laude).....	Halifax, Nova Scotia
O'Halloran, Dominic Joseph, B.A., B.Ed.....	Halifax, Nova Scotia
Parsons, Stanley George, B.A., B.Ed.....	Halifax, Nova Scotia
Perry, Karl Woodman, B.Sc., B.Ed.	
(Magna Cum Laude).....	Halifax, Nova Scotia
Shaw, Patrick Vincent, B.A.	Halifax, Nova Scotia
Thomas, John Charles, B.A., B.Ed.....	Halifax, Nova Scotia

MASTER OF SOCIAL WORK

Arseneau, Marcel, A. B.....	Balmoral, New Brunswick
Mason, Edward Charles, B.A.....	Halifax, Nova Scotia
St. Onge Jacques, B.A.....	Halifax, Nova Scotia

GRADUATES—OCTOBER, 1960

BACHELOR OF ARTS

✓ Clancy, Catherine.....	Halifax, Nova Scotia ✓
✓ Gallagher, Guy.....	Fort Fairfield, Maine ✓
✓ Macfarlane, Elmer.....	Dartmouth, Nova Scotia ✓
✓ McClare, Gregory.....	Halifax, Nova Scotia ✓
✓ MacLean, Gordon.....	Barss' Corner, Nova Scotia ✓
✓ Park, Beatrice.....	Halifax, Nova Scotia ✓
✓ Sangster, Ella.....	Halifax, Nova Scotia ✓

BACHELOR OF SCIENCE

Cuccia, Louis.....	Toronto, Ontario
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BACHELOR OF COMMERCE

✓ Amirault, Stanley.....	East Pubnico, Nova Scotia ✓
✓ Burke, Peter.....	Greenwood, Nova Scotia ✓
✓ Delaney, Oscar.....	Magdalen Islands, P.Q. ✓

DIPLOMA IN ENGINEERING

✓ Ciavarella, John.....	Toronto, Ontario ✓
✓ Spruin, William.....	Halifax, Nova Scotia ✓
✓ Turner, George.....	Windsor, Nova Scotia ✓
✓ Walsh, John.....	Montauk, New York ✓
✓ Wayland, Ross.....	Halifax, Nova Scotia ✓

BACHELOR OF EDUCATION

✓ Conrad, Mary Anna.....	Halifax, Nova Scotia ✓
✓ Conrad, Myra Louise.....	Halifax, Nova Scotia ✓
✓ Floyd, Theresa I.....	Halifax, Nova Scotia ✓
✓ McMaster, Alice Burke.....	Dartmouth, Nova Scotia ✓

MASTER OF ARTS

✓ Conrad, Arthur (Cum Laude).....	Halifax, Nova Scotia ✓
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