CALENDAR

of

SAINT MARY'S UNIVERSITY

HALIFAX, NOVA SCOTIA

Under the direction of the Jesuit Fathers
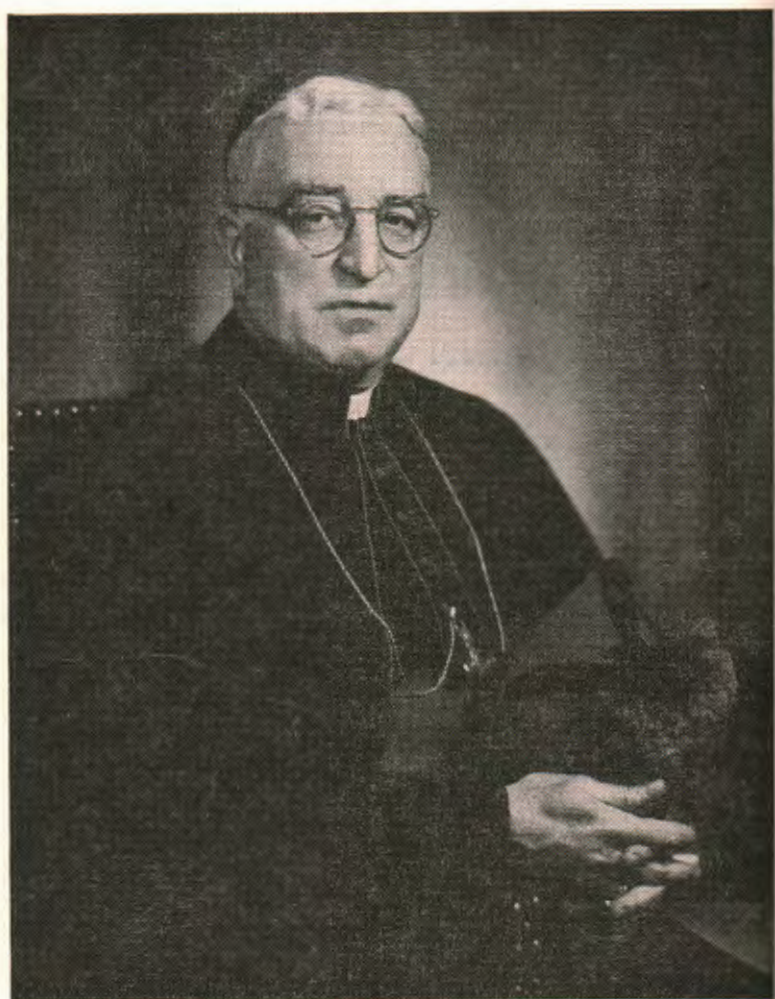
✚

1954 - 1955

✚

A.M.D.G.
HALIFAX, NOVA SCOTIA, CANADA
1954

MOST REVEREND J. GERALD BERRY, D.D.
Chancellor of the University

INDEX

1954

JULY
S	M	T	W	T	F	S
..	..	..	..	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

AUGUST
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	..	..	..	..

SEPTEMBER
S	M	T	W	T	F	S
..	..	..	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	..	..

OCTOBER
S	M	T	W	T	F	S
..	..	..	..	..	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	..	..	..	..	..	..

NOVEMBER
S	M	T	W	T	F	S
..	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	..	..	..	..

DECEMBER
S	M	T	W	T	F	S
..	..	..	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	..

1955

JANUARY
S	M	T	W	T	F	S
..	..	..	..	..	..	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	..	..	..	..	..

FEBRUARY
S	M	T	W	T	F	S
.	.	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	..	..	..	..	..

MARCH
S	M	T	W	T	F	S
..	..	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	..	..

APRIL
S	M	T	W	T	F	S
..	..	..	..	..	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

MAY
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	..	..	..	..

JUNE
S	M	T	W	T	F	S
..	..	..	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	..	..

JULY
S	M	T	W	T	F	S
..	..	..	..	..	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	..	..	..	..	..	..

AUGUST
S	M	T	W	T	F	S
..	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	..	..	..

SEPTEMBER
S	M	T	W	T	F	S
..	..	..	..	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	..

ACADEMIC CALENDAR YEAR

1954

Sept. 1	Survey Camp.
Sept. 2	Last day for receiving applications for supplemental examinations.
Sept. 13	Registration for Freshmen (Engineers and Science)
Sept. 14	Registration for Freshmen (Arts and Commerce)
Sept. 15	Registration for Freshmen resident students.
Sept. 16	Registration for second year students.
Sept. 17	Registration for third and fourth year students.
Sept. 17	Registration for returning resident students.
Sept. 15-17	Supplemental examinations and entrance examinations.
Sept. 21	CLASSES BEGIN
Oct. 3	Day of Recollection.
Nov. 1	Feast of All Saints. No classes.
Nov. 11	Remembrance Day. Requiem Mass for Deceased Alumni.
Nov. 15	Feast of St. Albert the Great. Academic programme.
Dec. 8	FEAST OF THE IMMACULATE CONCEPTION Patronal Feast of the University. No classes.
Dec. 9	Term examination in subjects of two semesters.
Dec. 17	Christmas vacation begins.

1955

Jan. 4	CLASSES RESUME
Jan. 6	Epiphany.
Jan. 27	Final Examinations in subjects of One Semester.
Feb. 2	Candlemas Day. No classes. Announcement of Essay Contest.
Mar. 7	Feast of St. Thomas Aquinas. Patron of Schools. No classes.
Mar. 17	St. Patrick's Day. No classes.
Mar. 19	Feast of St. Joseph, Primary Patron of Canada. Public Speaking Contest.
Apr. 6	Easter Vacation begins after morning lectures.
Apr. 12	CLASSES RESUME
May 3	Final Examinations.
May 13	Senate Meeting. Graduation ceremonies begin.
May 15	Day of Recollection.
May 16	Baccalaureate Sermon.
May 17	Convocation.

SENATE OF SAINT MARY'S UNIVERSITY

As Constituted in Accordance with the Acts of 1918

CHANCELLOR

His Grace, Most Reverend J. Gerald Berry, D.D.

VICE-CHANCELLOR

Right Reverend William J. Burns, D.P., V.G.

FELLOWS

Most Reverend Alfred Leverman, D.D., Bishop of Saint John.

Very Reverend Frederick J. Lynch, S.J., President of the University.

George H. Murphy, M.D., C.M., F.A.C.S., LL.D.

Honourable W. F. Carroll, B.A., LL.B., LL.D.

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

Gerald P. Flavin, LL.B., Q.C.

John A. Walker, M.A., LL.B., Q.C.

Reverend J. L. Quinan, S.T.B., J.C.B., P.P.

Reverend M. J. Belair, S.J., Secretary of the Senate.

Right Reverend Cyril J. Martin, D.P., P.P.

Wilfred J. Dyer, B.Sc., M.D.

Arthur J. Haliburton, Esq.

Lieutenant Colonel Sidney C. Oland, V.D., A.D.C., LL.D.

Bernard A. O'Leary, B.Sc., C.E., M.E.I.C.

Right Reverend Charles F. Curran, D.D., D.P., V.F.

Norman Stanbury, Esq.

Thomas J. Hanrahan, Esq.

Honourable Harold Connolly, LL.D.

Alban Murphy, Esq.

Christopher Grant, M.A.

R. W. McColough, B.Sc., D. Eng., M.E.I.C.

OFFICERS OF ADMINISTRATION

Very Reverend F. J. Lynch, S.J., President
Reverend M. J. Belair, S.J., Vice-President
Reverend P. G. Malone, S.J., Dean of Studies
Reverend M. J. O'Donnell, S.J., Dean of Men
H. G. Beazley, B. Comm., Dean of Commerce
J. L. Ryan, B.Sc., B.E., Dean of Engineering
Reverend W. A. Stewart, S.J., Librarian.
Reverend G. Gallagher, S.J., Student Counsellor
Reverend Ernest Tyler, S.J., Principal of the High School
Anne Walker, B.A., Registrar
Donald J. Markley, Bursar

OFFICERS OF INSTRUCTION
1953 - 1954

W. K. Ahern, B.E., (Mechanical) (N.S.T.C.) Physics

H. G. Beazley, B.Comm. (St. Mary's) Accounting

Edmund Boyd, B.A. (Saint Mary's) B.Ed. (St. F.X.) French

John Bulley, B.E., (Mechanical) (N.S.T.C.) Draughting

Rev. M. W. Burke-Gaffney, S.J., Mathematics

E. J. Cole, B.E., (Mining) (N.S.T.C) Geology

E. T. Cosgrove, B.Sc., (Saint Mary's), B.E. (Mechanical) (N.S.T.C.) Physics

Rev. Ambrosius Czako, Ph.D. (Budapest) Adult Studies

William Dalton, B.A., (Saint Mary's) Economics

Errol Davison, B.Comm., (Saint Mary's), C.A., R.I.A., Taxation

Rev. D. Fogarty, S.J., English Journalism

Rev. G. Gallagher, S.J., Religion

Rev. H. Labelle, S.J., Philosophy

Martin Livingston, Advertising

Rev. J. P. McCarthy, S.J., History

Rev. P. G. Malone, S.J, Economics

Sister Mary Lua, BA., (M.S.V.), M.A. (C.U.A.) Biology

7

Rev. J. E. Mills, B.A.,
(Saint Mary's),
B.Mus. (U. of M.)
Music

Cyril J. Murphy, B.Sc.,
(St. F.X.)
Mathematics

Rev. James Murphy, S.J.,
Chemistry

Rev. A. J. Nelson, S.J.,
French

Rev. M. J. O'Donnell, S.J.,
English

Rev. D. Rourke, S.J.,
Sociology

J. L. Ryan, B.Sc., (Saint Mary's)
B.E. (Mechanical) (N.S.T.C.)
Engineering

Allan T. Sabean, B.A., B.Sc.
(Saint Mary's)
M.Sc. (McGill)
Chemistry

Rev. W. A. Stewart, S.J.,
Philosophy

V. E. Vaughan, B.E. (N.S.T.C.)
Surveying

Rev. Andrew Viragh, S.J.,
Religion

J. Philip Walsh, M.Sc. (Dal.)
Chemistry

Rev. A. C. Wilson, S.J.,
Latin

JOURNALISM

Frank W. Doyle,
Dean of Journalism

Rev. Daniel Fogarty, S.J.,
Co-ordinator,
Journalism 1

Ralph T. Vaughan, B.A.
(Saint Mary's), LL.B. (Dal.)
Journalism 2

Sister Maura, B.A., M.A., Ph.D.,
Journalism 3

Martin Livingston,
Advertising

MEMBERS OF THE JOINT SERVICES UNIVERSITY TRAINING COMMITTEE

Lt.-Cdr. (L) G. F. Vail, C.O.,
U.N.T.D., (R.C.N.) (R.)

Major H. Thompson, R.C.O.C.,
R.S.O., C.O.T.C.

F/L Hugh Saunders, R.C.A.F.,
R.S.O.

SURGEON

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

PHYSICIANS

E. T. Granville, M.D., C.M.
C. H. Reardon, M.D., C.M.
J. E. H. Miller, M.D., C.M.
A. B. Crosby, M.D., C.M.

OCULIST

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

DENTIST

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

RESIDENT NURSE

Miss C. MacDonald, R.N.

INTERNE

Dr. John MacKinnon

SAINT MARY'S UNIVERSITY

✛

HISTORY

A S we learn from the records of the time, the early years of the 19th century were characterized by a great and practical interest on the part of the Clergy and Catholic people of Halifax in the all-important matter of education. This interest found tangible expression in the foundation, under the inspiration of Right Reverend Bishop Fraser, of a college for Catholic students which was carried on for some years without any financial assistance from or official recognition on the part of the Provincial Government of the day. This college was situated on the site now occupied by Saint Mary's Girls' School on Grafton Street. Its first Principal was the Reverend Father R. B. O'Brien, D.D., and among other professors, the staff included Reverend Father Michael Hannan, afterwards Archbishop of Halifax.

In the year 1841 it was determined to make application to the Legislature for recognition and financial assistance and accordingly a measure was introduced carrying the title: "An Act for Incorporating the Trustees of Saint Mary's College at Halifax."

This Bill was entered in the House of Assembly on March 17th, 1841 and passed on the 29th day of March of the same year, Mr. Joseph Howe being the Speaker of the House. Thus was the young college launched on its career as an institution of higher learning and although it had been in existence for some years previous, this date is generally accepted as that of the foundation of Saint Mary's College.

The power conferred by the Act of 1841 was granted for a period of eleven years but on the 8th day of April, 1852, a new Act was passed making the privileges of Saint Mary's perpetual.

For some years after this, the President of the College was the Reverend Father Michael Hannan who in 1861 was succeeded by the Reverend Father Patrick Power. Prominent among the students of those days were the late Archbishop McCarthy, the late Sir Malachi Bowes Daly, Lieutenant Governor of Nova Scotia, who was a Bachelor of Arts of Saint

9

Mary's College, the late Peter O'Hearn, Principal for many years of Saint Patrick's High School and the late Martin Griffin, Parliamentary Librarian for Canada.

It must be remembered that, in those days, educational institutions had, for the most part, an arduous struggle for existence and temporary suspension of activities for some years at a time was not unheard of. Saint Mary's had its own share of such vicissitudes.

In 1873 the Act of 1841 was reaffirmed "in the same manner and to the same extent." It would seem that this reaffirming in 1873 was deemed necessary because the rights of the Act of 1841 "had been allowed to expire through inadvertence."

In the meantime, the site of the College had been transferred to Belle Aire Terrace and placed under the management of the Christian Brothers of the Congregation of Saint John Baptist de la Salle. Subsequently the College was transferred to a building on Barrington Street where we now find Saint Theresa's Retreat.

On February 23rd 1881 Mr. Patrick Power, one of the best-known and most influential business men in Halifax, died. It is not too much to say that, were it not for the generous bequest made by Mr. Power in favour of Saint Mary's College, the institution would be unable to carry on, and if the College is found to be of service in the cause of Catholic Education, the name of Patrick Power must be held in grateful memory.

In 1903 the College was reorganized by His Excellency Archbishop O'Brien and a valuable new property secured at the intersection of Quinpool Road and Windsor Street. The Right Reverend Monsignor Kennedy was appointed President, being succeeded after an interval of about two years by the Right Reverend Monsignor McManus, under whose able and energetic direction the College remained until 1913. In that year, on the invitation of His Excellency Most Reverend E. J. McCarthy, the Christian Brothers of Ireland undertook the direction of the College. On this occasion a considerable addition was made to the building erected by Archbishop O'Brien in 1903. The funds for this addition were raised by popular subscription. Reverend Brother P. J. Culhane was the first President under the new administration and the College owes much to his ability, prudence and energy.

An important event in the life of the College was the affiliation with the Nova Scotia Technical College which took

place in 1916. Under this arrangement, duly matriculated students follow an Engineering Course of Three Years at Saint Mary's, the scope and extent of which is uniform with that followed by the different Colleges affiliated with the Nova Scotia Technical College. On the satisfactory completion of this course, the student may proceed to the Nova Scotia Technical College to take a further course of two years. At the end of this period he is eligible for admission to the degree of B.E. in Civil, Mechanical, Electrical or Mining Engineering.

On December 6th, 1917 occurred the disastrous Halifax Explosion. Happily, none of the students in attendance at the time received any serious permanent injury, but the building like all others in the vicinity suffered severely. Classes were suspended for the time being and the College was placed at the disposal of a United States Army Medical Corps which had come from Boston to minister to the victims of the dreadful catastrophe. When the immediate emergency had passed and the regular civil and military hospitals found themselves in a position to absorb the remaining patients at Saint Mary's, the College reverted once more to its original purposes.

Shortly afterwards, the Legislature again gave its recognition to the status of Saint Mary's College, when, on the 26th day of April 1918 it passed a measure which bore the title: "An Act to Amend the Law Respecting Saint Mary's College, Halifax." The first clause of this Act runs as follows: "Be it enacted by the Governor, Council and Assembly, as follows:— Saint Mary's College, Halifax, 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 and privileges exercised by Universities, including the power of conferring Degrees in Arts, and in all the other faculties."

Since the passing of this Act the College has availed itself of the privileges conferred upon it by the Legislature, degrees have been conferred in Arts, Science and Commerce. Year by year, the existence of the College is seen to be more and more justified in the number of young men who enter the Priesthood or the Religious State and in the much increased Catholic representation in Medical, Legal and Engineering Professions.

The steady growth of the College is a source of encouragement and gives reason to believe that Saint Mary's will long continue to play an important part in the educational life of the Province, realizing the dream—or, shall we say, the vision—of the men who in the now distant days of 1841 "by great

exertions and very large pecuniary contributions" made possible its foundation.

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

On June 24th, 1943, the Archbishop of Halifax, Most Reverend John T. McNally, celebrated his seventy-second birthday by making an important announcement. The Gorsebrook Golf Club, which was the old and storied Collins' estate, had been purchased by the Archdiocese as the site of a new Saint Mary's University.

This was good news for Halifax. The Catholics of the city had long realized the need for a larger and more representative Catholic University. Saint Mary's was part of the city and had grown up with it and produced a long line of eminent men. Five times already it had changed its site to accommodate the growing numbers. Now it was to make one final move to the Gorsebrook Golf Club where thirty acres had been purchased for a new, modern, greatly enlarged building.

On these thirty acres today stands the new Saint Mary's: a central building for administration and classes, a north wing for 230 resident students, a south wing for its Jesuit Faculty. There is accommodation for at least 800 students and provisions for the basic university courses and a private High School. The chapel is designed to seat 900 and will serve as a parish church for the southend of the city. Beneath it will be a galleried gymnasium and auditorium and beyond this to the south a $9\frac{1}{4}$ acre playing field that the experts says will be the best in Canada.

On the Gorsebrook site, Saint Mary's University makes its home in one of the finest buildings in Eastern Canada. With a renewed sense of dedication, Saint Mary's plans to maintain the traditions of the past and provide for the increasing needs of the future. With its own charter and the enthusiastic support of the Archdiocese of Halifax, the University feels justified in looking ahead to an increasingly influential place in Catholic education.

On March 31st, 1952, the Honourable Angus L. Macdonald, Premier of the Province of Nova Scotia, proposed an amendment to the Act of 1918. The purpose of this amendment was to change the name of Saint Mary's College to "Saint Mary's University". This Act was duly passed and received the assent of the Governor on April 10th, 1952.

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.

Eligibility

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

The Apostleship of Prayer and League of the Sacred Heart. The object of the Apostleship is two-fold; to instil into the students that apostolic spirit which, it is hoped, they 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.

Sodality of the Blessed Virgin Mary. The purpose of the Sodality is to develop Christian character under the protection of the Mother of God and to cultivate the lay apostolate. This two-fold purpose is achieved by conducting weekly meetings at which the Office of the Blessed Virgin is recited and instructions given, and by organizing sections for the promotion of special activities.

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

Canadian Student Mission Crusade, Saint Mary's University Unit. This organization aims at the creation of an active and effective interest in Catholic Foreign Missions. Through its activities assistance is given to the many foreign mission centres.

GENERAL

Students' Council. It aims at promoting the best interest 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. Saint Mary's University is a member of the Canadian Federation of Catholic College Students. The Federation 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 is a student-faculty organization open to everyone on the campus. Saint Mary's W. U. S. C. Committee is one of twenty-three in Canadian universities. Through the national organization it participates in an international programme of material assistance, student exchange and interchange of ideas throughout the world university community.

Tau-Gamma-Sigma Society is restricted to students in the Faculty of Arts. Its activities are chiefly social and recreational.

The Albertus Magnus Guild, comprising students in the faculties of Science and Pre-Medicine, aims at preparing its members for service in life—not alone technical but also cultural; not alone physical and social but also spiritual and civic.

The Engineering Society is open to all students in the Engineering Department. Its functions correspond, in general, to those of the Tau-Gamma-Sigma Society.

Delta-Lambda-Kappa Society. Students in the Department of Commerce are eligible for membership. The extra-curricula activities of the Commerce students are controlled by the executive of this society.

Debating Society. The membership of this Society is made up of students of Sophomore, Junior and Senior year in all faculties who are taking English. Meetings are held weekly at which Parliamentary Debates, Open Forum, Mock Trials or other forms of public speaking offer the members ample opportunities to train themselves under direction. The activities of the society include Intercollegiate Debates, Radio Debates and Forums, etc.

The Philosophers' Academy has for its purpose the promotion of philosophical study and of the investigation of philosophical problems. This purpose is accomplished by mutual encouragement and stimulation and by the presentation and discussion of philosophic topics at the regular meetings. The membership of this academy is limited to 12 students in the second, third and fourth years of the University course.

Saint Mary's Boat Club is owned and operated by the Archdiocese of Halifax to promote a Catholic social and recreational centre. The aspiration of the University is to make this a centre where Saint Mary's students and graduates meet, especially during the time of summer vacation.

Saint Mary's University Athletic Association regulates the athletic activities of the students. All contests external and intra-mural are under the direction of the executive of the Association. Prizes are provided. University Letters and other awards are regulated.

Saint Mary's Playshop. A dramatic organization which prepares and presents programmes of entertainment under the direction of a member of the Faculty.

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 of the Senate of the University. The Society meets annually and at such other times as circumstances may suggest.

The Alumni Society. All former Saint Mary's students are eligible for membership. The Annual General Meeting is held in October on a day appointed by the executive. The Society holds social and recreational functions during the year and presents annually a Gold Medal for scholastic competition in the University.

The Journal. A newspaper edited and issued twice a month by the students.

The Collegian. A pictorial review and record of the main events of the scholastic year.

The Glee Club (Choral Society) meets one night a week to interest students in the singing of two, three and four part harmony. Its membership is open to all who are interested in music.

The Band is in attendance at all student activities and gives students an opportunity of developing musical talent.

The Hobby Club holds meetings every Monday evening. Membership is open to both faculty and students.

The University Directory, published annually by the Albertus Magnus Guild, is made available without charge to the students. The Directory is a comprehensive, illustrated source of information about Saint Mary's and contains a complete register of students.

The University Naval Training Division (U.N.T.D.) 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).

Entry is open to male undergraduates attending Canadian Universities and Colleges, who are over 17 years of age and are medically fit. You are entered as a Probationary Cadet on the Active List of the RCN(R), and undergo a three year course of training at Naval Divisions during the academic year, and afloat and ashore during the summer months.

For further details, see Staff Officer — UNTD. H.M.C.S. "SCOTIAN", H.M.C. Dockyard, Halifax, N. S. Phone 3-1161, Local 406.

Saint Mary's University Contingent Officers' Training Corps The University participates in the program 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. Students are selected for training by the University Selection Board, comprising a member of the Faculty nominated by the President of the University, the Commanding Officer of the Contingent and the Resident Staff Officer appointed by the Army. While undergoing both theoretical and practical summer training, the students are paid at the rates prescribed for Second-Lieutenants of the Canadian Army Reserve Force, namely One Hundred and Eighty-five Dollars ($185.00) per month.

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. In those trades for which no formal training is given, students receive trade training under the supervision of competent officers. Upon completion of their engagement with the URTP they also are qualified Junior Officers of the RCAF. While undergoing training at the RCAF stations, students receive One Hundred and Eighty-five ($185.00) per month plus room, board and clothing. The University liaison officer is Prof. A. T. Sabean, Chemistry Department.

REGULAR OFFICER TRAINING PLAN: 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.

Successful applicants will be enrolled as Naval Cadets in the Royal Canadian Navy, Officer Cadets in the Canadian Army and Flight Cadets in the Royal Canadian Air Force according to their choice. They will attend the College or University selected. Undergraduates will complete the summer practical phase training programme as do the Reserve personnel of the appropriate University— Naval Training Division (RCN), Canadian Officers' Training Corps (Canadian Army) or University Reserve Training Plan (RCAF).

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. Cadets are obliged to maintain good standing academically in college and throughout military training. A cadet who fails a year at College or University may, on the recommendation of the faculty and the Service concerned, be permitted to attend a repeat year at his own expense and, if succcessful, be reinstated.

The cost of books, instruments, tuition and other

essential fees will be borne by the Department of National Defence. The pay and allowances for cadet officers under this plan is: basic pay of fifty-five dollars ($55.00) per month plus subsistence allowance of sixty-five dollars ($65.00) per month.

Free medical and dental care and annual leave with full pay and allowances will be received throughout the entire training period.

PLANS OF STUDIES

Saint Mary's believes firmly that education means the full and balanced development of all the faculties of a man, and that a liberal university course is the surest means to attain that end. It stands foursquare for general education, as the one most worthy of the dignity of the human soul and the one best fitted to preserve a free society. It therefore requires of all students, no matter what the diversity of their vocational choice may be, a number of courses in the cultural areas of languages and history, religion and philosophy, mathematics and the sciences. These general subjects of education amount to more than one-half of the total course requirements toward any one of the academic degrees awarded at Saint Mary's.

CURRICULA

But the University is conscious of the dignity of the individual, and recognizes the divergence of men's inclinations and aptitudes which lead to specific vocational choices. It therefore offers a reasonable variety of course programs designed to satisfy this need. There are five major divisions, leading to the Degrees of Bachelor of Arts, Bachelor of Science and Bachelor of Commerce, and Diplomas in Journalism and Engineering.

The various Faculties, each with its own proper objective, give complete educational opportunity to Catholic young men. The Arts course is directed to basic training for professional careers. The Commerce course aims at solid business training. The courses in Science and Engineering prepare the student for a future in industry and scientific development. Finally Journalism with its stress on the Arts curriculum, seeks to give a basic formation in publicity, public relations and associated fields.

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. These 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, yet this aim cannot be attained unless parents and guardians likewise are familiar with the routine of the school and its regulations. The registration of the student is considered an acceptance of these regulations both on the part of the student and on the part of his parents or guardian.

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

REGISTRATION

All applications for admission to the University should be forwarded to the Registrar, preferably before the beginning of September. Registration will take place on the dates set forth in the academic calendar.

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

All applicants for admission to the University must present satisfactory testimonials of good character.

A student entering from another College must furnish from such institution a certificate of honourable dismissal.

At time of registration all students must present evidence of medical fitness or apply to the Medical Officer of the University for examination.

See Bursar's Regulations for late registration fee.

No applications for changes in courses will be considered unless made and received within ten days after the opening of the University term. The phrase "opening of the University term" means the date on which lectures commence.

Students who are discontinuing studies must notify the Registrar's Office.

ACADEMIC REGULATIONS

Students are required to attend all classes of their courses regularly and punctually. Classroom doors will close at the time assigned for classes.

No student who has been absent from class or comes late is admitted without written authorization from the Dean's Office. It is the right of this office to determine whether the reason for absence or being late is acceptable. Parents are asked to cooperate with the school authorities in promoting regular and prompt attendance.

When the work of a student becomes unsatisfactory or his attendance irregular, the student may be required to discontinue the class or classes involved and to be excluded from the examinations. The decision in this rests with the Dean of Studies and his Advisory Board. An unexcused absence from a term or final examination is regarded as a failure in that subject.

EXAMINATIONS

The school year is divided into two semesters. In each semester there are examinations in all courses being offered. In addition, during the semester a test may be required. This test will count for not more than 20% of the mark for that semester.

In any subject extending over two semesters, the results of the first semester count for 40% of the year's total mark, and the resuts of the second semester count for 60% of the year's total mark in that subject.

Supplementary examinations are written on the dates assigned in the Calendar.

A special examination is an examination written outside the time assigned for regular and supplementary examinations. Only those students who have serious reasons for missing examinations at the scheduled times will be admitted as candidates for special examinations.

(Special fee for this is listed in the Bursar's Regulations.)

GRADES

To qualify for the bachelor's degree with one of the three distinctions, namely, summa cum laude, magna cum laude, or cum laude, a student must have obtained a minimum general average respectively of 85%, 80% or 75%.

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

A mark between 40% and 50% is a condition. A STUDENT WHO HAS RECEIVED A CONDITION MUST WRITE A SUPPLEMENTARY EXAMINATION IN THAT

SUBJECT THE FOLLOWING SEPTEMBER. If a student does not write a supplementary at the prescribed time or fails in a supplementary he must repeat that subject. No more than two conditions, and consequently no more than two supplementaries, are permitted in any school year. A student who has more than two conditions must repeat those subjects in which he has conditions.

A mark below 40% constitutes a failure and the subject must be repeated.

A STUDENT ENTERING HIS SENIOR YEAR WITH A CONDITION OUTSTANDING IN ANY SUBJECT WILL NOT BE CONSIDERED A CANDIDATE FOR A DEGREE OR DIPLOMA.

No student will be admitted to a term examination, promoted from one year to another or receive any degree, diploma, certificate or transcript of record until all financial accounts have been settled.

ADMISSION REQUIREMENTS

MATRICULATION

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

The Junior matriculation requirements are as follows:

B. A. COURSE
English
Latin
French
Algebra
Geometry
Two of: Chemistry, Physics, Biology, History, Economics, or another language.

B. COMMERCE COURSE
English
Latin or another language
French
Algebra
Geometry
Two of: Chemistry, Physics, Biology, History, Economics, or another language.

B. SCIENCE COURSE
English
French or Latin
Algebra
Geometry
Physics
Chemistry
One of: History, Economics, Biology, Trigonometry, or another language.

DIPLOMA IN JOURNALISM
Same requirements as for B. A.

DIPLOMA IN ENGINEERING
Same requirements as for B. Sc.

Candidates for university should during their High School keep in mind the above requirements for admission to any faculty. If the requirement, especially in languages, has not been met, it will be necessary to take a remedial course to enable the candidate to fulfil that requirement.

ACCEPTABLE CERTIFICATES

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

(a) Certificates of the Common Examining Board of the Atlantic Provinces.

(b) High School Provincial or "Accredited" School Certificates of Grades XI or XII of Nova Scotia issued by the Department of Education of the Province of Nova Scotia.
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.

(c) Equivalent Certificates issued by Education Departments of other Provinces.

(d) Second Year Certificates issued by Prince of Wales College, Charlottetown, Prince Edward Island.

(e) Equivalent Certificates of Matriculation Examinations taken at Universities.

(f) Certificates similar to the above issued by University or other official examining bodies, when found adequate.

(g) High School or Accredited High School certificates of the Province of New Brunswick.

ADMISSION TO ADVANCED STANDING

Applicants who present Nova Scotia Grade XII certificates, or the equivalent, and whose academic record is satisfactory, receive credit in the following subjects: English 1, French 1, Latin 1, History 1, Mathematics 1.

The certificates to which these provisions apply are the following:

(a) High School or Accredited School Certificate of Grade XII of Nova Scotia issued by the Department of Education;

(b)　Third Year Certificate as issued by Prince of Wales College, Prince Edward Island.

(c)　Certificate of the first year of Memorial University College, Newfoundland.

(d)　Equivalent Senior Matriculation Certificates issued by Departments of Education of other Provinces, or approved by the Committee on Admission.

Candidates for Engineering will not be granted advanced standing in Mathematics for Grade XII credits.

Candidates for Arts or Commerce degrees must take a required Mathematics course of two semesters.

Mathematics in Freshman Arts is a basic course in Elementary Mathematical Analysis.

Mathematics in Freshman Commerce is a Course in the application of mathematical methods.

GENERAL FEES — 1954 - 1955

Tuition .... $160.00 a year
<div align="right">($80.00 each instalment)</div>
Board, Room Rent and Laundry .... $550.00 a year
<div align="right">($275.00 each instalment)</div>
Please note that there are two instalments.

PARTICULAR FEES

Registration Fee	$ 5.00
Library Fee	10.00 a year
Student Council Fee	2.00
Insurance Premium and Medical Examination..	6.00
General Fee	15.00 a year
Infirmary Fee	2.00 a day
Vacation Board and Room	3.00 a day

LABORATORY FEES

Laboratory fees are payable according to the following list:

Biology 1	$15.00
Biology 2	15.00
Chemistry 1	15.00
Chemistry 2	15.00
Physics 1	15.00
Physics 2	15.00
Physics 3	15.00
Draughting 1	5.00
Draughting 2	5.00
Descriptive Geometry Draughting	5.00
Graphical Statics	5.00
Geology	5.00
Summer Survey Camp	35.00

SCHOOL OF JOURNALISM FEES

In addition to the regular tuition fee, there is a charge for each subject taken in the School of Journalism.

Journalism 1	$30.00
Journalism 2	30.00
Public Relations	15.00
Journalism 3	30.00
Advertising	15.00

BURSAR'S REGULATIONS

1.   The general fees are paid in two equal instalments. The last day for payment of the first instalment is September 22nd.   The last day for payment of the second instalment is January 31st.   All the particular fees are to be paid at time of registration.

2.   Students who have not promptly met their obligations with the Bursar's Office will not be admitted to classes.

3.   The General Fee of $15.00 is charged to every student and includes membership in the Athletic Association, the use of the campus, gymnasium and recreational facilities, school publications (The Journal and Collegian) and the auditorium.

4.   Students who withdraw from the University before the end of the academic year must arrange their accounts with the Bursar before departure.   No refund of library or general fees can be granted.   A proportionate rebate for board and room and tuition may be granted for absence due to sickness, if the sickness extends beyond one month.

If a student enters the University after the date of opening, no reduction will be granted.

If a student be asked to withdraw from the University because of infractions of rules and regulations, he will not be entitled to any rebate of any fees.

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

6.   The registration fee is charged only when a student registers for the first time.   However, there is a penalty charge of $5.00 for any student who registers late, whether registering for the first time or not.

7.   The Graduation Fee with Degree is $15.00.   The Diploma in Journalism $10.00 and Engineering, $5.00.   There will be additional fee of $15.00 for any degree conferred in absentia at the Spring Convocation.

8.   Students requiring a special examination in any subject will be charged $10.00 a subject.   Supplementary examinations are $5.00 a subject.

9.   An extra monthly charge is made in the exceptional case when a room is assigned to one student only.

10. 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.

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

12. Resident student's spending money and personal expense money must be arranged through deposits with the Bursar by the student's parent or guardian.

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

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

15. During the school term, however, students are covered on compulsory payment of a premium of $4.00 by insurance against accident occurring on the University premises or elsewhere under University supervision. The policy provides up to $50.00 for medical and dental coverage. Claims are made directly to the insurance company.

16. Students who, with the approval of the Dean, register for individual subjects, will be charged at the rate of $40.00 per subject each term, but when this charge exceeds the regular tuition, the latter rate will apply.

17. Out-of-town students will not be permitted to reside outside the University.

18. Students who wish to have a transcript of marks will receive two copies free. But no student will be admitted to a term examination or be promoted from one class to another or receive any report, degree, diploma, certificate or testimonial whatsoever, until his financial accounts have been satisfactorily settled.

19. 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.

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

FACULTIES

ARTS

The curriculum in Arts is planned to lay the foundation of a broad and liberal education. It stresses, therefore, the literary and cultural courses, and aims at the development of an interest in all that is best in life. It fosters an appreciation of what is sound in philosophy and beautiful in literature, and seeks not merely to familiarize the student with the great facts and movements of history but to create interest in these movements and the personalities identified with them. The formation of studious and literary habits is regarded as of greater importance than the encyclopaedic acquisition of facts, while accurate and thorough scholarship in a rather limited field is preferred to superficial acquaintance with many branches of knowledge. In this, as in all courses, classes in religious and moral topics are essential requirements.

Degree of Bachelor of Arts

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
English 1	English 2	English 3	English 4
Philosophy 1	Philosophy 2	Philosophy 3	Philosophy 4
Religion 1	Religion 2	Religion 3	Religion 4
Elective A1	Elective A2	Elective A3	Elective A4
Elective B1	Elective B2	Elective D1	Elective D2
Elective C1	Elective C2	Elective E1	Elective E2

Electives A1, A2, A3, A4, are four separate courses in one subject, to be selected from the following subjects:

French, History, Latin, Social Sciences, Pre-Medical Science.

Remaining electives are two-course electives and may be chosen from any of the above mentioned subjects not already chosen, or from the following:

Chemistry, History of Science, Mathematics, Physics, Biology, Zoology. If either Chemistry or Physics is elected, Mathematics must also be taken.

Latin is obligatory for two years for all Arts students.

Students planning to enter the professions of dentistry, law or medicine should see that their course of studies includes subjects prerequisite to entrance in the professional school of their choice.

For the combined Arts and Journalism course, as explained on page 33, the following subjects must be added to the course above required for the Bachelor of Arts degree:

Journalism 1	Journalism 2	Journalism 3
Assignment Work		English 3J.

28

SCIENCE

The Faculty of Science offers honour courses in Chemistry, Physics and Mathematics and a general course.

The honours courses aim primarily at preparing students for the pursuit of post-graduate studies after obtaining an honours B.Sc.

The general course is partially elective. A selection of science subjects has to be made by the student and approved by the Dean of the Faculty. Four years of English, Philosophy and Religion are a requisite for any degree in the Faculty of Science.

To be admitted to an honours course a student must have obtained a mark of sixty per cent, or more, in each subject required for matriculation.

Degree of Bachelor of Science with Honours in Chemistry

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Chemistry 1	Chemistry 2	Chemistry 9	Chemistry 16
English 1	Chemistry 4	Chemistry 10	Chemistry 17
French 1	Chemistry 6	Chemistry 11	Chemistry 18 or 19
Mathematics 1E	Chemistry 7	Chemistry 12	
Mathematics 2E	Chemistry 14	Chemistry 13	Chemistry 20
Philosophy 1	English 2	English 3	Chemistry 21
Physics 1	Mathematics 3	Mathematics 4c	Chemistry 22
Religion 1	Philosophy 2	Philosophy 3	French 5
	Religion 2	Physics 3	Mechanics 4
		Religion 3	Philosophy 4
			Religion 4

Degree of Bachelor of Science with Honours in Mathematics

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
English 1	English 2	English 3	English 4
French 1	Mathematics 3	Mathematics 7	French 10
Mathematics 1E	Mathematics 5	Mathematics 8	Mathematics 10
Mathematics 2E	Mathematics 6	Mathematics 9	Mathematics 11
Philosophy 1	Philosophy 2	Philosophy 3	Mathematics 12
Physics 1	Physics 2	Physics 3	Mechanics 4
Religion 1	Religion 2	Religion 3	Philosophy 4
			Religion 4

Degree of Bachelor of Science
with Honours in Physics

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Chemistry 1	English 2	English 3	Religion 4
English 1	Mathematics 3	Mechanics 4	French 10
French 1	Mechanics 2	Philosophy 3	Philosophy 4
Mathematics 1E	Philosophy 2	Physics 4	Physics 7
Mathematics 2E	Physics 2	Physics 5	Physics 8
Philosophy 1	Physics 3	Physics 6	Physics 9
Physics 1	Religion 2	Religion 3	Physics 10
Religion 1			Religion 4

Degree of Bachelor of Science
General Course

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOUTH YEAR
English 1	English 2	English 3	English 4
Philosophy 1	Philosophy 2	Philosophy 3	Philosophy 4
Religion 1	Religion 2	Religion 3	Religion 4
Elective 1	Elective 4	Elective 7	Elective 10
Elective 2	Elective 5	Elective 8	Elective 11
Elective 3	Elective 6	Elective 9	Elective 12

COMMERCE

As a broad, technical training is of paramount significance in the field of competitive business, 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 this faculty is to combine the cultural aspects of education with the general principles of business. The courses are of University standard and a number of them are taken in the faculty of Arts.

The degree of Bachelor of Commerce is conferred upon the satisfactory completion of a course of four years study in this Department.

The following extract from the by-laws of the Institute of Chartered Accountants of Nova Scotia is drawn to the attention of students of Commerce: "The Council, in its discretion, may reduce the period of service to two years or one and may exempt a registered student who holds a Bachelor of Commerce degree from the Primary examination of the Institute."

Degree of Bachelor of Commerce

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Accounting 1	Accounting 2	Accounting 3	Accounting 4
Economics 1	Commercial Law	Economics 3	Auditing
English 1	Economics 2	English 3	Economics 4
French 1	English 2	Philosophy 3	English 4
Mathematics 1	French 2	Political Science	History 4
Philosophy 1	Philosophy 2	Religion 3	Philosophy 4
Religion 1	Religion 2	Taxation	Religion 4
			Sociology

Students in Arts may, if they have previous permission of the Dean of Studies, proceed to the degree of Bachelor of Commerce by taking the following courses in the Faculty of Commerce, in addition to the subjects required for the Bachelor of Arts degree as shown on Page 28.

Accounting 1	Accounting 2	Accounting 3	Accounting 4
	Commercial Law	Economics 3	Auditing
	Economics 2	Taxation	Economics 4

If the courses in Accounting 1 and 2, Commercial Law and Economics 2 and 3 are completed before graduating in Arts, the Degree of Bachelor of Commerce can be obtained in one additional year.

31

ENGINEERING

This faculty was established, in affiliation with the Nova Scotia Technical College, to prepare students who wish to qualify for a degree in Engineering. A Diploma in Engineering, which admits the holder to Nova Scotia Technical College without examination, is given for the successful completion of a three year course. Students who have received a Diploma in Engineering may obtain a Degree of Bachelor of Science by taking the Fourth Year of Engineering outlined below.

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

With a Diploma in Engineering a student may enter any one of the departments of Engineering at the Nova Scotia Technical College, Laval University or McGill University, either Civil, Electrical, Mechanical, Chemical or Metallurgical or Mining, and obtain the Degree of Bachelor of Engineering at the successful completion of the last two years of the five year course.

Bachelor of Science with Engineering

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Chemistry 1	Chemistry 2	Chemistry 3	English 4
Draughting 1	Descriptive	Economics 1	Ethics (Phil. 3)
English 1	Geometry	Geology	Materials of
French 1	Draughting 2	Graphical Statics	Engineering
or Latin 1	Engineering	Mathematics 3	Mathematics 4
Mathematics 1	Problems	Mechanics 1	Mechanics 2
Physics 1	English 2	Physics 3	Religion 4
Religion 1	Mathematics 2	Religion 3	Strength of
	Physics 2	Survey 2	Materials
	Religion 2		Thermodynamics
	Survey 1		
	Survey Camp		

Diploma in Engineering

As in the first three years of the B.Sc. Course outlined above, with the addition of Mechanics 2 in third year.

32

SCHOOL OF JOURNALISM

This school was established in 1945 in co-operation with the local newspapers, the Halifax Herald, the Halifax Mail, the Halifax Star and the Halifax Chronicle. Its aim is to combine a thorough training in the techniques of newspaper work with a study of the liberal arts so as to produce skilled journalists with a broad cultural background. Professional technical courses are conducted by experienced professional journalists while the academic subjects are taken in the Faculty of Arts. At the successful completion of the three-year course a Diploma in Journalism is awarded.

Students may combine the course in Journalism with that of Arts and obtain both the Diploma in Journalism and the Degree of Bachelor of Arts; the Diploma at the end of three years, the Degree in the following year.

Diploma in Journalism

FIRST YEAR	SECOND YEAR	THIRD YEAR
English 1	Assignment Work	English 3
French 1	English 2	Journalism 3
Journalism 1	French 2	Ethics (Phil. 3)
History 2	Journalism 2	Political Science
History of Science	History 4	Religion 3
Philosophy 1	Psychology (Phil. 2)	Sociology
Religion 1	Religion 2	Public Relations
	Advertising	

Degree in Arts with Journalism

For this combined syllabus, the following subjects must be added to the course required for the Bachelor of Arts degree, as outlined on page 28.

Journalism 1	Journalism 2	Journalism 3
Assignment Work		English 3J

33

COURSES OF STUDY

Degree of Bachelor of Arts

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
English 1	English 2	English 3	English 4
Philosophy 1	Philosophy 2	Philosophy 3	Philosophy 4
Religion 1	Religion 2	Religion 3	Religion 4
Elective A1	Elective A2	Elective A3	Elective A4
Elective B1	Elective B2	Elective D1	Elective D2
Elective C1	Elective C2	Elective E1	Elective E2

Degree of Bachelor of Science with Honours in Chemistry

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Chemistry 1	Chemistry 2	Chemistry 9	Chemistry 16
English 1	Chemistry 4	Chemistry 10	Chemistry 17
French 1	Chemistry 6	Chemistry 11	Chemistry 18 or 19
Mathematics 1E	Chemistry 7	Chemistry 12	Chemistry 20
Mathematics 2E	Chemistry 14	Chemistry 13	Chemistry 21
Philosophy 1	English 2	English 3	Chemistry 22
Physics 1	Mathematics 3	Mathematics 4c	French 10
Religion 1	Philosophy 2	Philosophy 3	Mechanics 4
	Religion 2	Physics 3	Philosophy 4
		Religion 3	Religion 4

Degree of Bachelor of Science with Honours in Mathematics

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
English 1	English 2	English 3	English 4
French 1	Mathematics 3	Mathematics 7	French 5
Mathematics 1E	Mathematics 5	Mathematics 8	Mathematics 10
Mathematics 2E	Mathematics 6	Mathematics 9	Mathematics 11
Philosophy 1	Philosophy 2	Philosophy 3	Mathematics 12
Physics 1	Physics 2	Physics 3	Mechanics 4
Religion 1	Religion 2	Religion 3	Philosophy 4
			Religion 4

Degree of Bachelor of Science with Honours in Physics

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Chemistry 1	English 2	English 3	English 4
English 1	Mathematics 3	Mechanics 4	French 10
French 1	Mechanics 2	Philosophy 3	Philosophy 4
Mathematics 1E	Philosophy 2	Physics 4	Physics 7
Mathematics 2E	Physics 2	Physics 5	Physics 8
Philosophy 1	Physics 3	Physics 6	Physics 9
Physics 1	Religion 2	Religion 3	Physics 10
Religion 1			Religion 4

Degree of Bachelor of Science
General Course

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
English 1	English 2	English 3	English 4
Philosophy 1	Philosophy 2	Philosophy 3	Philosophy 4
Religion 1	Religion 2	Religion 3	Religion 4
Elective 1	Elective 4	Elective 7	Elective 10
Elective 2	Elective 5	Elective 8	Elective 11
Elective 3	Elective 6	Elective 9	Elective 12

Degree of Bachelor of Commerce

Accounting 1	Accounting 2	Accounting 3	Accounting 4
Economics 1	Commercial Law	Economics 3	Auditing
English 1	Economics 2	English 3	Economics 4
French 1	English 2	Philosophy 3	English 4
Mathematics 1	French 2	Political Science	History 4
Philosophy 1	Philosophy 2	Religion 3	Philosophy 4
Religion 1	Religion 2	Taxation	Religion 4
			Sociology

Degree of Bachelor of Science with Engineering

Chemistry 1	Chemistry 2	Chemistry 3	English 4
Draughting 1	Descriptive	Economics 1	Ethics (Phil. 3)
English 1	Geometry	Geology	Materials of
French 1	Draughting 2	Graphical Statics	Engineering
or Latin 1	Engineering	Mathematics 3	Mathematics 4
Mathematics 1	Problems	Mechanics 1	Mechanics 2
Physics 1	English 2	Physics 3	Religion 4
Religion 1	Mathematics 2	Religion 3	Strength of
	Physics 2	Survey 2	Materials
	Religion 2		Thermodynamics
	Survey 1		
	Survey Camp		

Diploma in Engineering

As in the first three years of the course leading to B.Sc. with Engineering, with the addition of Mechanics 2 in third year.

Diploma in Journalism

English 1	Assignment Work	English 3J
French 1	English 2	Journalism 3
Journalism 1	French 2	Ethics (Phil. 3)
History 2	Journalism 2	Political Science
History of Science	History 4	Religion 3
Philosophy 1	Psychology (Phil. 2)	Sociology
Religion 1	Religion 2	Public Relations
	Advertising	

COURSES OF INSTRUCTION

ACCOUNTING

Accounting 1. The balance sheet approach to the subject is employed. One of the aims of the course is to provide the students with a working knowledge of the Accounting Cycle as early as possible. The material deals with journals, ledgers and registers; trial balances, working papers, profit and loss statements, balance sheets and statements of earned surplus. Among the topics receiving attention are columnar journals, controlling accounts, manufacturing accounts, the voucher system and partnerships.

> TEXT: Principles of Accounting—Introductory—*Finney and Miller,* (Prentice-Hall) Fourth Edition.
> *Three hours a week; two semesters.*
> *Laboratory: Two hours a week, two semesters.*

Accounting 2. Considerable attention is given to corporation accounting and features relating to bonds, sinking funds and sinking fund reserves are developed. Manufacturing accounts and manufacturing cost controls form an important part of the course. The subject matter includes an analysis of assets, the theory and principles of accounting, a study of departmental operations, and an analysis of statements.

> TEXT: Principles of Accounting—Introductory—*Finney and Miller,* (Prentice-Hall) Fourth Edition.
> *Three hours a week; two semesters.*
> *Laboratory: Two hours a week, two semesters.*

Accounting 3. After reviewing end-of-period procedures for merchandising and manufacturing businesses and statement techniques, the material deals with an analysis of working capital; profit and loss analysis and an intensified study of corporation accounting.

Special emphasis is placed on asset, liability and reserve terminology and accounting treatment. The final phase of the work covers statements of application of funds.

> TEXT: Principles of Accounting. Intermediate—*Finney and Miller,* (Prentice-Hall) Fourth Edition.
> *Three hours a week; two semesters.*
> *Laboratory: Two hours a week, two semesters.*

Accounting 4. The advanced course devotes considerable attention to partnership accounting and deals with consignments; installment sales; insurance; the correction of statements and books; home office and branch accounting.

To promote the analytical thinking implicit in consolidated accounting work the subject matter deals extensively with parent and subsidiary companies.

TEXT: Principles of Accounting—Advanced.—*Finney and Miller*, (Prentice-Hall) Fourth Edition.
Three hours a week; two semesters.
Laboratory: Two hours a week, two semesters.

AUDITING

Procedures, Explanations, Miscellaneous Papers, Records, General Ledger, Vouchers and Invoices, Audit Working Papers, Report on Examination of Accounts, Ruled Paper and File.

TEXT: To be announced.
Lectures: One hour a week, two semesters.
Laboratory: Two hours a week, two semesters.

BIOLOGY

Biology 1. *General Biology.* A preliminary study of the structure and function of living organisms leading to an understanding of the elementary principles of anatomy, cytology, genetics, histology and physiology.

TEXTS: An Introduction to Animal Biology—Parker & Clarke (*Mosby*).
Elements of Botany — Holman and Robbins (*Wiley*).
Lectures: Three hours a week, two semesters.
Laboratory: Three hours a week, two semesters

Biology 2. *General Zoology.* A study of the classification, history, internal and external and comparative structure of representative invertebrates and vertebrates.

TEXTS: *General Zoology,* Storer, (McGraw-Hill)
Lectures: Three hours a week, two semesters.
Laboratory: Six hours a week, two semesters.

CHEMISTRY

Chemistry 1. *General Chemistry.* An introduction to fundamental principles; the kinetic molecular theory; theory of ionization and of the factors influencing reaction velocities and equilibrium; the periodic table and the properties and reactions of representative elements.

TEXT: College Chemistry, Smith, (Appleton-Century)
Two hours a week, two semesters.
Laboratory: Three hours a week, two semesters.

Chemistry 2. *Elementary Qualitative Analysis.* An introductory course in the theory and techniques of inorganic qualitative analysis; Ionic equilibria, solubility products, etc.

TEXTS: Qualitative Analysis, *Engelder*, (John Wiley)
Qualitative Analysis, *Hardsuch*, (John Wiley)
Lectures: One hour a week, one semester
Laboratory: Four hours a week, one semester.

Chemistry 3. *Theoretical Chemistry.* A lecture course dealing with present-day theories of atomic and molecular structure and the modern interpretation of the more important chemical phenomena.

TEXT: Principles of Chemistry, *Hildebrand*, (Macmillan).
Two hours a week, two semesters.

Chemistry 4. *Organic Chemistry.* A study of the chief aliphatic and aromatic compounds with emphasis on the modern theories of organic chemistry.

TEXT: Organic Chemistry, Conant, *(Macmillan)* Second Edition; Laboratory Book of Elementary Organic Chemistry, Lowy & Baldwin *(Wiley)* Third Editon.
Lectures: Two hours a week, two semesters.
Laboratory: Three hours a week, two semesters.

Chemistry 5. *Elementary Quantitative Analysis.* An introductory course in the theory and techniques of inorganic quantitative analysis.

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

Chemistry 6. *Elementary Physical Chemistry.* A study of the states of matter, conditions of equilibria and reaction rates. A course in the fundamentals of Physical Chemistry for Honours Chemistry students.

Lectures: Three hours a week, two semesters.

Chemistry 7. *Quantitative Analysis.* A first course for Honours Chemistry and Chemical Engineering students.
Lectures: One hour a week, one semester.
Laboratory: Four hours a week, one semester.

Chemistry 8. *Inorganic Chemistry.* Lectures on the classification of chemical data in the Periodic Table.
Lectures: One hour a week, two semesters.

Chemistry 9. *Organic Chemistry.* A second course with emphasis placed on reaction conditions.
Lectures: Two hours a week, two semesters.

Chemistry 10. *Organic Qualitative Analysis.*
Laboratory: Six hours a week, two semesters.

Chemistry 11. *Chemical Thermodynamics.* A study of the significance, measurement, and practical application of entrophy and free energy changes.
Lectures: Three hours a week, two semesters.

Chemistry 12. *Elementary Physical Chemistry Laboratory.*
Laboratory: Three hours a week, two semesters.

Chemistry 13. A study of the Phase Rule and the graphical representation of equilibrium data.
Lectures: One hour a week, two semesters.

Chemistry 14. *Industrial Quantitative Analysis.* Theory of methods used in industry. Analysis of substances of commercial importance.
Lectures and Laboratory: Three weeks in May or September.

Chemistry 15. *Theory of Physical Chemistry Measurements.* A course intended primarily for Pre-medicine students.
Lectures: Three hours a week, two semesters.

39

Chemistry 16. *Advanced Organic Chemistry.* Emphasis placed on molecular structure.

> *Lectures: Two hours a week, one semester.*

Chemistry 17. *Electrochemistry.* Conductance and mobilities. E.M.F.'s in thermodynamic theory, polarization, reactions at electrodes, etc.

> *Lectures: Two hours a week, one semester.*

Chemistry 18. *Atomic Structures.*

> *Lectures: Two hours a week, one semester.*

Chemistry 19. *Kinetic Theory.* Prerequisite, Chemistry 6.

> *Lectures: Two hours a week, one semester.*

Chemistry 20. *Advanced Physical Chemistry Laboratory* Reaction rates and yields. Surface phenomena. Electrochemistry.

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

Chemistry 21. Conferences and laboratory work to introduce the student to original research.

Conferences and Laboratory: Ten hours a week, two semesters

Chemistry 22. *Chemistry of Surfaces.*

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

COMMERCIAL LAW

Negotiable Instruments and their validity; contracts and terms of sale; legal liability in various business transactions; company formation and dissolution; bankruptcy; insurance; more important Canadian legislation affecting trade and commerce.

TEXT: Summary of Canadian Commercial Law, *Anger*, (Pitman & Sons).

Two hours a week, two semesters.

DESCRIPTIVE GEOMETRY

Problems on points, lines, plane and warped surfaces, with emphasis on practical draughting related to mining, construction, geological and topographical applications.

TEXTS: Applied Descriptive Geometry, *Warner*, (McGraw-Hill).

Applied Descriptive Geometry Problems *(Warner & Douglas*, McGraw-Hill).

Three hours a week; two semesters.

DRAUGHTING

Draughting 1. The work of this course has been so arranged as to develop the technical skill of the student and to train him to visualize and reproduce simple objects by drawings. Special attention is given to lettering.

TEXT: Technical Drawing, *Giesecke, Mitchell & Spencer*, (MacMillan). Third Edition.

Lessons in Lettering, Book 1 & 2, *French & Turnbull*, (McGraw-Hill).

Three hours a week; two semesters.

Draughting 2. (a) Plotting, by various methods, the notes taken during area surveys at summer camp.

(b) Advanced machine draughting with an introduction to the theory of oblique drawing and perspective. The use of auxiliary views, employing more difficult problems in sectioning and dimensioning.

TEXT: Technical Drawing, *Giesecke, Mitchell & Spencer*, (Macmillan) Third Edition.

Three hours a week; two semesters.

ECONOMICS

Economics 1. *General Principles of Economics*

Human Wants and Scarcity; fundamental concepts; characteristics of Capitalism; nature of Production, productive factors; Economic specialization; organization of Business, Business units, Business risks; Exchange, Money; Investment and Commercial Banking; fluctuation in purchasing power, in Business activity; price determination; Costs of Production; competitive prices, monopoly prices; International Trade, distribution of Income; Rent, Wages, Interest, Profits; the principles of Consumption.

TEXT: Fundamentals of Economics, *Gemmill*, (Harper).
Three hours a week, two semesters.

Economics 2 (a) *American Economic History.*

Economic causes of the American Revolution; Finance and Tariff; Westward expansion from the Revolution to the Civil War; Economic causes of the Civil War, significance; the Agrarian Revolution; the Industrial Revolution; consolidation of Business; the Labor movement; Financial History since 1860; Economic Imperialism; First World War; Economic Depression and Collapse; the New Deal; World Economic relations.

TEXT: American Economic History, *Faulkner*, (Harper).
Three hours a week, one semester.
Regular compulsory assignments.

Economics 2 (b) *Canadian Problems.*

National and Political life; Economic developments; Population and its problems; the growth of Industry and Commerce; Agriculture in the economy of Canada; Banking and Currency; Transportation.

Reference: Report of the Royal Commission on Dominion-Provincial relations. Book 1. (Sirois Report) Canada: 1867-1939.
Three hours a week, one semester.
Regular compulsory assignments.

Economics 3. *Corporation Finance.*

The Corporation and its Financial Structure; Common Stock; Stocks with preferences; Bonds; the promotion of a Business; Valuation of a Business; Financing manufacture; Promotion of a Public Utility; marketing of Securities; Working Capital; Adjustments for wasting assets and future losses; computation of Surplus; distributing Profits; the voting trust; Investment Companies; Business expansion; Industrial combinations; Corporation failures, reorganizations.

TEXT: Corporation Finance, *Dewing*, (Ronald Press).

Three hours a week, two semesters.
Regular compulsory assignments.

Economics 4. *Marketing.*

A one year course in the fundamentals of modern marketing, which by use of the case method enables the student to participate fully in each phase of the course.

TEXT: Marketing—Text and Cases—*Cannon and Wilbert* (McGraw-Hill).

Three hours a week, two semesters.

ENGINEERING PROBLEMS

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

TEXT: Mathematics for Engineers, Vol. 1. *Rose*,
(Chapman-Hall) Eighth Edition.

Three hours a week, two semesters.

ENGLISH

English 1.

   1a. *Survey of English Literature, from the Anglo-Saxon Invasion to the middle of the Seventeenth Century,* with special attention to Bede, Malory, Chaucer; More, Spenser, Southwell, Campion.

   1b. *Elizabethan Drama:* Shakespeare, Marlowe, Ben Jonson; for intensive study, Hamlet, Macbeth.

   1c. *The Theory of Poetry.* The basic elements of poetry; experience, imagery, feeling, rhythm, language: technical elements, versification; stanza forms, melody: illustrative reading and training in critical appreciation.

   1d. *Composition.* Regular assignments on the matter treated in the previous sections.

   1e. *Debates,* under direction. All students must take part in the schedule of debates for the season.

   TEXTS: The Literature of England, Vol I., *Woods, Watt, Anderson,* pp. 1-563, (Scott, Foresman).

   Composition text American College English (Gage)

   Five hours a week, two semesters.

English 2.

   2a. *Survey of English Literature,* XVII - XVIII *Century.* Donne, Herrick, Crashaw, Isaak Walton; Milton, Bunyan; Butler, Pepys, Dryden, Addison, Swift, Pope, Goldsmith, Samuel Johnson, Edmund Burke, Boswell, Sheridan.

   2b. *Shakespearian Drama.* Study and discussion of the plays of Shakespeare and the literary canons they exemplify. References to and evaluation of representative Shakespearian critics. For intensive study, Othello, King Lear.

   2c. *The Essay.* A critical study of the Essay, its literary content, characteristics and origin.

   2d. *Composition.* Critical and Imitative essays on the authors studied.

2e. *Debating.* One hour a week. Active membership in the College Debating Society is a requisite of English II.

TEXT: Literature of England, Vol. I.: *Woods, Watt, Anderson,* pp. 563 sqq., (Scott, Foresman).
American College English, *Warfel, Matthews, Bushman,* (Gage).
Effective Communication in Business, *Aurner* (South Western Publishing Co.)

Four hours a week, two semesters.

English 3.

3a. *English Literature: the Age of Romanticism.* The approach to Romanticism, Gray, Cowper, Burns, Blake: Romantic Poetry, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats; the minor poets, Southey, Moore, Hood, Landor: Romantic Prose, Lamb, Hazlitt, De Quincey.

The Victorian Era. Prose: Macaulay, Newman, Carlyle, Ruskin, Matthew Arnold, Pater:

Poetry: Tennyson, the Brownings, Newman, Emily Bronte, Matthew Arnold, Rosetti, Thomson, Meredith: Fitzgerald, Swinburne.

3b. *Nineteenth Century Novelists.* Scott, Jane Austen, Dickens, Thackeray, the Brontes, George Eliot, Trollope, Meredith, Hardy, Stevenson, Bennet, Henry James.

3c. A critical study of the novel, as exemplified by the authors read during the year.

3d. Monthly essays on the Literature studied, and at least six critical book reports on Novels of the authors studied.

3e. Debating. One hour a week. Active membership in the College Debating Society is a requisite of English III.

TEXTS: The Literature of England, Vol. II; *Woods, Watt, Anderson,* (Scott, Foresman).
American College English, *Warfel, Matthews, Bushman,* (Gage).
Effective Communication in Business, *Aurner* (South Western Publishing Co.)

Four hours a week, two semesters.

English 4.

4a. *Twentieth Century Literature.* Modern trends, and living authors, analyzed and criticized; drama, poetry, fiction, essays.

The Catholic Revival. The Wards, Alice Meynell, The Maynards, Chesterton, Belloc.

45

4b. Modern Drama, the One-Act Play.

4c. The Short Story.

4d. Composition. Essays imitative of modern trends in style. Letter writing and Business Composition. Debating material, Radio talks.

4e. Debating. Active membership in the University Debating Society.

TEXTS: The Literature of England, Vol. II, *Woods, Watt, Anderson,* (Scott, Foresman).

Four hours a week, two semesters.

FRENCH

I

French 1 *Phonetic Diction: French sounds and rhythms in prose and verse.*

This is a partial course whose object is to improve the student's pronunciation through imitation of carefully graded passages of conversational and literary French.

Recorded material for this course will be available at the Practice Laboratory.

French 2 *Functional Grammar*

This course, which will consist of oral and written work, will include:

(a) a general knowledge of the functional forms of French grammar remaining from the lower courses, and which the average student finds somewhat difficult to master (e.g. use of tenses, subjunctive mood, relative pronouns, past participles etc.);

(b) written translation work from English into French for the purpose of making practical the general grammar review.

TEXT: Modern French Course, *Dondo*, Part II.

French 3 *Le Roman*

As an introduction to French culture of city and country the student studies some great novels of that civilization, seeing with the penetrating gaze of the novelist the things that have made France glorious.

TEXTS: Contes et Comédies ....*Harper*
La terre qui meure ....*Bazin*
Choix de Fables ....*La Fontaine*
Dictionary ....*Kittredge*
Le tour du monde ....*Verne*

Three hours a week; two semesters.

47

French 4 *Diction*

This partial course aims at a better appreciation of the aesthetic qualities of French used orally in prose and in verse. It will feature a number of special exercises designed to correct defects in pronunciation and intonation, rate of reading, so that the student may participate in recitation of the assigned subjects.

Recorded material for this course will be available at the Practice Laboratory.

French 5 *Translation and Composition*

The purpose of this course is:

(a) to review grammar by means of graded translation into French;

(b) to develop fluency in written French by practising the translation of set composition on subjects connected with French culture and customs.

TEXT: New French Review Grammar and Composition—*Barton & Sirich.*

French 6 *Modern French Dramatists*

Two authors have been chosen for analytical study from the vast literature of this field. Rostand for his graceful eloquence, poetry and wit; Bornier for his ringing echoes of epic poetry written in the truly classical dramatic form. These authors will be used for intensive study of their dramatic lyric and psychological content; an extensive knowledge of a choice of those listed as "Readings" will also be required of the student.

Readings: A Short History of French Literature—*Strachey.*
Comédies et proverbes, Lorenzaccio — *Alfred de Musset.*

Henri III et sa cour .... *A. Dumas*
Hernani, Ruy Blas .... *V. Hugo*
Chatterton .... *A. de Vigny*

TEXTS: Cyrano de Bergerac — *Holt*
La fille de Roland — *Heath*

Three hours a week; two semesters.

French 7 *Translation and Composition*

The purpose of this course is,

(a) to complete the review of grammar by means of graded translations into French;

(b) to further develop fluency in written French by means of free compositions on assigned subjects connected with French customs and literature.

TEXT: New French Review Grammar and Composition— *Barton & Sirich.*

French 8 *Trends in Nineteenth Century French Literature*
This course will present the outstanding figures of the period and their contribution to the great movements of Romanticism, Realism and Symbolism which characterize the French literature of this century.

TEXTS: L'Evolution de la Littérature française — *Verriest* les textes français XIXe et XXe siècle.
J. R. Chevaillier et P. Audiat (Hachette).

Three hours a week, two semesters.

French 9 (a) *The Golden Age of French Literature*

This course will deal chiefly with the great dramatists of the French classical period who reflect most vividly the literary trends and seventeenth century French life.

TEXTS: L'Evolution de la Littérature française — *Verriest*
Horace—*Corneille*
Le Bourgeois Gentilhomme ....*Molière*
Le Malade Imaginaire ....*Molière*
Lettres ....*Mme. de Sévigné*

Three hours a week; one semester.

French 9 (b) *The Philosophers of Eighteenth Century France.*

The Eighteenth century, le siècle de Voltaire, is above all a century of ideas and their popularization—ideas that culminated in the French Revolution. This course will be a study of the literary school that furnished the ideas and saw to their propagation.

TEXTS: L'évolution de la littérature française — *Verriest* Eighteenth Century French Readings — *Schinz.*

Three hours a week; one semester.

French 10 *French in Scientific Literature*

The reading and translation of current publications of French academies and societies of science.

One seminar a week for two semesters.

GEOLOGY

A study of the elements of Physical Geology with special emphasis on the application of geologic principles to the problems of engineering. Lectures are supplemented by laboratory work on the identification of the more common minerals and rocks. Mineral deposits, the interpretation and use of geologic and topographic maps, and historical geology are briefly considered.

TEXT: Geology, Principles and Processes, *Emmons, Thiel, Stauffer, Allison,* (McGraw-Hill) Third Edition.
Three hours a week, two semesters.

GRAPHICAL STATICS

Equilibrium polygon and polygonal frames for all systems of loads; graphical representations of shears and moments for non-continuous and continuous beams; roof trusses; dead, live and wind load stresses for fixed ends and ends on rollers; maximum stresses; simple bridge trusses; simple cantilevers.

TEXT: Applied Mechanics, *Poorman,* (McGraw-Hill).
Three hours a week; one semester.

HISTORY

History 1. *Mediaeval History.* From the beginning of the Christian era to 1500 A.D. Conflict between Paganism and Christianity; Constantine; the Invasion of the Barbarians; the evangelization of Europe; the onslaught of Islam; the Empire of Charlemagne; Germany and the conflicts between Empire and Papacy; Norman conquests of England and Italy; the invasion of Ireland; France under the Capetians; the Hundred Years War; Feudalism; Chivalry; the Crusades; the Universities; the Great Schism of the West; Portuguese explorations and the voyages of Columbus.

TEXT: Mediaeval History — *Carl Stephenson* (Harper & Brothers)

Three hours a week; two semesters.

History 2. *Renaissance, Reformation, Revolution.* 1500-1815 A.D. Background of the Renaissance in Italy; Petrarch and Dante; European Literature and Culture in the fourteenth and fifteenth centuries; the Humanists.

The Reformation; Religious conditions in Europe in the fifteenth century; Luther; the course of the Reformation in the sixteenth century; the Counter-reformation.

Empire of Charles V; the Thirty Years War; Age of Louis XIV; Wars, Social conditions; Conflict of English and French interests in America and India; Seven Years War; development of Prussia; the French Revolution; Robespierre; Napoleonic Era.

TEXT: Political and Cultural History of Modern Europe, Vol. I, *Hayes,* (Macmillan).

Three hours a week, two semesters.

History 3. *Modern History.* 1815-1914 A.D. The era of Metternich, 1815-1830, Congress of Vienna; the Industrial Revolution; Democratic Reform; Revolutions of 1848; the growth of Nationalism; Karl Marx and Modern Socialism; Anarchism and Syndicalism; Great Britain and Ireland; Latin Europe; Teutonic Europe; the Russian Empire; dismemberment of the Ottoman Empire; the New Imperialism; European

51

civilization in America and Africa; the British Empire; International relations, (1871-1914).

TEXT: A Political and Cultural History of Modern Europe, Vol. II, *Hayes*, (Macmillan).

Three hours a week, two semesters.

History 4. *History of Today.*

World War I, 1914-1919; its background and immediate causes; the entry of the United States; military operations; poison gas and propaganda; peace moves and war aims; the Peace Conference of Paris; the Treaty of Versailles; other peace treaties.

Twenty Years Armistice; the League of Nations; Reparations; the Depression; unrest; national developments in Great Britain, Ireland, France, the Far East, the United States.

Second World War, 1939-1945; the background; outbreak of war; the Sitzkrieg, Blitzkrieg; the fall of France, the Battle of Britain; invasion of the Soviet Union; Pearl Harbour and the entry of the United States; the African Campaign; Italy; the invasion of Normandy; Victory in Europe; the Atomic Bomb; Victory in Japan; the aftermath.

TEXT: The World since 1914, *Langsam*, (Macmillan)

Three hours a week; two semesters.

HISTORY OF SCIENCE

The purpose of this course is not only to give an outline of scientific progress through the ages, but also to trace the influence of the scientific background on literature and political thought. The course falls naturally into six parts: Science in the Ancient World, The Middle Ages, The Renaissance, The Newtonian Revolution, The Nineteenth Century and the New Era in Physics.

TEXT: A Short History of Science, *Sedgwick, Tyler & Bigelow*, (Macmillan).

REFERENCES: The Rise of Modern Physics, *Crew;* History of Mathematics, *Ball;* The History of Biology, *Nordenskiold:* A History of Chemistry, *Brown:* Greek Astronomy, *Heath;* A Short History of Medicine, *Singer;* The Autobiography of Science, *Moulton and Schifferes.* History of Science, *Sarton* (Harvard University Press) First Edition.

Two hours a week, two semesters.

JOURNALISM

Journalism 1. *Introduction to Journalism.* Subjects to be discussed in lectures will include: Journalism as a Career; News Values; Style of News Writing; Construction of Articles. Minor assignment work, instruction in interviews, etc.

Two hours a week, two semesters.

Journalism 2.

2a. Reporting and newswriting, including assignments along the lines of actual newspaper work. Training for more important duties in the writing field. Advertising.

Two hours a week, one semester.

2b. Copy and proof-reading, headline writing. Background training for desk-work and accurate and effective handling of news material.

Two hours a week, one semester.

Journalism 3.

Newspaper editing, features, editorials, newspaper policy and practice. Public Relations.

Two hours a week, two semesters.

LATIN

Latin 1

1a   *Authors.* Cicero, Pro Archia; Virgil, Aeneid II; Ovid, Metamorphoses; Sallust, Bellum.

1b   *Composition.* Bradley's Arnold ex. 1-14.

1c   *Roman History.*
    Three hours a week, two semesters.

Latin 2

2a   *Authors.* Cicero, Pro Lege Manilia; Livy, Book XXI; Virgil, Aeneid VI.

    Composition. Bradley's Arnold ex. 15-32.

    History of Latin Literature. Latin Literature, Mackail.
    Three hours a week, two semesters.

Latin 3

3a   *Authors.* Horace, Odes & Epodes, Ars Poetica, Satires & Epistles.

3b   *Composition.* Bradley's Arnold ex. 33-53.

3c   *Latin Prosody,* A study of the rules of Latin prosody, scansion and verse forms.
    Three hours a week, two semesters.

Latin 4

4a   *Authors.* Tacitus; the minor poets, Ennius, Catullus, Tibullus, Phoedrus, Seneca, Martial.

4b   *Composition.* Bradley's Arnold ex. 54 to the end.

4c   *Ecclesiastical Latin.* Latin for Use, *Holsapple,* (Crofts).
    Three hours a week, two semesters.

MATERIALS FOR ENGINEERING

A presentation of the physical properties of common materials used in structures and machines, together with descriptions of their manufacture and fabrications. Testing machines and Standard Tests.

TEXT: Properties of Materials of Engineering, *Murphy* (International Text Book)

One hour a week, two semesters.

MATHEMATICS

Mathematics 1A (Arts)

1a.   An analysis of arithmetic, algebraic and geometric fundamentals and their application to practical problems.

1b.   Elementary Trigonometry and an introduction to Calculus.

TEXT: Elementary Mathematical Analysis. *Tate.* (Pitman).

Three hours a week, two semesters.

Mathematics 1C (Commerce)

Ca.   *Mathematics of Finance.*   Simple Interest and Discount, Equations of value, Amortization, Depreciation, Valuation of Bonds.

TEXT: Mathematics of Finance — *Simpson-Pirenian-Crenshaw* (Prentice-Hall) Third Edition.

Cb.   *Statistical Procedures.*   Percentages, Tabular and Graphical Presentation of Statistical Data, Measurement of Central Tendencies and Variability, Correlation, Reliability, Multiple Factor Analysis, Variance.

TEXT: Statistical Procedures and Their Mathematical Bases. *Peters and VanVoorhis.* (McGraw-Hill).

Three hours a week, two semesters.

Mathematics IE (Engineers and Science)

1c.   A practical analysis of basic mathematical procedures and their application to engineering problems, to run concurrently with Mathematics 1d and 1e.

1d. *Advanced Algebra.* Graphs, Theory of Quadratic Equations; Maximum and Minimum Values of Simple Functions; Ratio and Proportion; Variations, Progressions, Simple Series; Permutations and Combinations; Binomial Theorem; Determinants.

1e. *Trigonometry.* Plane Trigonometry including Identities, Equations, establishment of the ordinary formulae, Logarithims, Solutions of Triangles, Heights, Distances.

> TEXTS: College Algebra, *Ross R. Middlemiss.* (McGraw-Hill).

> TEXTS: Elementary Trigonometry—*Evans*—(Ginn)
>
> *Five hours a week, two semesters.*

Mathematics 2.

Analytic Geometry. Co-ordinate systems, Transformations, Loci and their equations, the Straight Line, Circle, Parabola, Ellipse, Hyperbola; elementary Analytic Geometry of three dimensions.

Differential Calculus. Study of the Infinitesimals, Limits, Limiting Values of Ratios, Differential Coefficient, Differentiation of Simple, Complex and Transcendental Functions; Equations of Tangents and Normals; lengths of Subtangents and Subnormals; determination of Angles of Intersections of Curves; Problems on Rates, Maxima and Minima.

> TEXT: Analytic Geometry and Calculus, *Longley, Smith, Wilson* (Ginn & Co.)
>
> *Three hours a week, two semesters.*

Mathematics 3. *Integral Calculus.* Standard methods of Integration Formulae. Use of Calculus in determining Area, Volumes, Centroids, Moments of Inertia, Lengths of Curves and in the solution of other problems occurring in Mechanics and General Physics. An elementary study of Differential Equations.

> TEXT: Analytic Geometry and Calculus, *Gay* (McGraw-Hill).
>
> *Three hours a week, two semesters.*

Mathematics 4.

4a. *Mathematical Analysis.* Complex Quantities and their Graphical representation, De Moivre's Theorem, Hyperbolic Functions, Expansion of Functions, Fourier's Series, Probability.

TEXT: Practical Mathematics for Advanced Technical Students, *Mann,* (Longmans).

Three hours a week, one semester.

4b. *Differential Equations.* A first course for students of engineering, physics and chemistry.

TEXT: Differential Equations In Applied Chemistry. *Hitchcock and Robinson,* (Wiley)
Three hours a week, one semester.

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 and Justice,* (Wiley)

Three hours a week, two semesters.

Mathematics 6. *Elementary Theory of Equations.* General theorems. Methods of solutions. Cubic and quartic equations. Determinants. Symmetric functions. Resultants. Discriminants and Elimination.

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

Three hours a week, two semesters.

Mathematics 7. *Applied Alegbra and Calculus.* The use of differentiation, integration and the theory of equations, with emphasis on the underlying principles, rather than on direct application to specific problems.

TEXT: Higher Mathematics for Engineers and Physicists. *Sokolnikoff and Sokolnikoff,* (McGraw-Hill)

Three hours a week, two semesters.

Mathematics 8. *Functions of a Real Variable.* The continuous real variable. Dedkind's theorem. Weierstrass theorem. Rational functions. Loci in space. Complex numbers. Limits of a function. The infinite in analysis.

TEXT: Mathematical Analysis, *Goursat-Hedrick*, Vol. I.

Three hours a week, two semesters.

Mathematics 9. *Functions of a Complex Variable.* General theory of analytic functions. Single-valued analytic functions. Analytic extension. Analytic functions of several variables.

TEXT: Mathematical Analysis, *Goursat-Hedrick*, Vol. II. part 1.

Three hours a week, two semesters.

Mathematics 10. *Differential Equations.* Second-order differential equations. Linear differential equations of higher order. Algebra of inverse operators. Systems of linear differential equations. Solution in power series.

TEXT: Mathematical Analysis, *Goursat-Hedrick*, Vol. II. part 2.

Mathematics 11. *Theory of Numbers.* An introduction to the problems of the analytic number theory.

TEXT: The Theory of Numbers, *Hardy and Wright.* (Oxford Univ. Press)

Three hours a week, two semesters.

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.*

Three hours a week, two semesters.

58

MECHANICS

Mechanics 1. *Mechanics of Machines*. Motions and Velocities; Instantaneous Centre; Kinematic Chain Velocity diagrams; Cams, Gearing, Belting, Intermittent Motions.

TEXT: Kinematic Problems, *Wingrin*, (Prentice-Hall)
Kinematic of Machines, *Guillet* (Wiley)

Three hours a week, one semester.

Mechanics 2. *Applied Mechanics*. 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: Applied Mechanics, *Poorman*, (McGraw-Hill).

Three hours a week, two semesters.

Mechanics 3. *Graphic Statics*. Analytic and graphic solution of systems of coplanar forces and of forces in spaces.

TEXT: Applied Mechanics, *Poorman*, (McGraw-Hill)

Three hours a week, one semester.

Mechanics 4. *Mechanics of Molecules*. General principles of classical mechanics. The rigid body. Absolute and relative velocity. The Hamiltonian form of the kinetic energy. Introduction of quantum mechanics.

TEXT: Principles of Mechanics, *Synge and Griffiths.*
(McGraw-Hill)

Three hours a week, two semesters.

PHILOSOPHY

Philosophy 1. *Logic and Epistemology.*

1a *Logic.* Formal Logic, in the traditional manner. An introduction to philosophy. The acts of the intellect from the standpoint of Logic.

> TEXT: Logic, *John A. Oesterle, Ph.D.* (Prentice-Hall, 1952)
>
> *References*: An Introduction to Philosophy, Maritain
> Formal Logic, *Maritain.*
> Science of Correct Thinking, *Bittle.*
> *Three hours a week, one semester.*

1b. *Epistemology.* The problem of knowledge; how do we know that we know? Scepticism, Doubt, Idealism, Empiricism, Materialism, Judgment and reflection; truth, error, certitude; first principles; problem of error. Criterion of truth, of the real.

> TEXT: The Philosophy of Human Knowing, *Hassett, Mitchell, Monan* (Newman, 1953).
>
> *References*: Reality and the Mind, *Bittle.*
> *Three hours a week, one semester.*

Philosophy 2. *Metaphysics and Philosophy of Human Nature.*

2a. *General Metaphysics.* The inductive method is followed throughout the course. Emphasis is placed on the existential judgment from which is derived the complex apprehension of being. The thomistic doctrine of the real distinction between essence and existence and the allied doctrine of act and potency are carefully examined. The analogy of proportionality is a central thesis and is applied to the solution of the basic philosophical problem of the "one and the many." The course includes a consideration of the various kinds of cause ,the transcendentals and the predicaments. Among the predicaments special considation is given to substance, quantity, quality and relation.

Special Metaphysics. Cosmology or Natural Philosophy. This course deals with being of the material universe, its origin and nature. The relation of science to natural philosophy is discussed in terms of such notions as time, space, motion and the ultimate constituents of material bodies.

TEXT: An Introduction to the Philosophy of Being, *G. Klubertanz.* (St. Louis U.)

References: The Philosophy of Being. *Renard.*
De Ente et Essentia, *St. Thomas Aquinas.*
The Basic Works of Aristotle, *McKeon.*
From Aether to Cosmos, *Bittle.* (Bruce).
Cosmology, *Williams.*

Three hours a week one semester.

2b. *Philosophy of Human Nature.* Man is studied as a living organism. The unity of man; vegetative life and the soul; knowledge; powers; external and internal sensation; intellect; appetency and appetite; the will; sensory appetites; habits; the human soul. Summary and criticism of other philosophical systems; related issues, Theory of Evolution, measurement of intelligence; freedom and hypnosis; scientific psychology.

TEXT: The Philosophy of Human Nature, *George P. Klubertanz.* (Revised Edition, St. Louis U., 1951.)

References: The Whole Man, *Bittle.*
Principles of Psychology, *Harmon.*
Summa Theologica, Part 1, *St. Thomas Aquinas.*

Three hours a week one semester.

Philosophy 3. *Natural Theology and Ethics.*

3a. *Natural Theology.* Theism, Agnosticism, Atheism; the existence of God, His nature and attributes; Creation; Divince Will and human freedom; Providence, Problem of evil.

TEXT: Special Metaphysics, Part II, Natural Theology, *McCormick* (Loyola).

References: Principles of Natural Theology, *Joyce.*
Natural Theology, *Smith.*

Three hours, one semester.

61

3b. *General Ethics.* The first section of the course deals with the general principles of morality derived solely from natural law and is an integral part of systematic philosophy. This study is not intended to replace a course in Christian morality, but offers a rational basis for the whole Christian code acceptable to any and all religious persuasions.

Special Ethics. The second section deals with specific ethical problems in the light of general principles established in the foregoing section. It considers the rights and obligations of the individual as a private person and as a member of domestic and civil society. This threefold status involves the study of Natural Religion, the nature of private property, marriage and divorce, the nature of civil society, socialism, Marxism, and finally a brief consideration of international law and the ethics of war.

TEXT: Folio, Rev. H. J. Labelle, S.J.

References: Ethics. *V. Burke.*
The Science of Ethics. *Cronin.*
Reading in Ethics. *Leibel.*
Man as Man. *Higgins.*

Three hours, one semester.

Philosophy 4.

The course in History of Philosophy is not a mere study of systems or isolated philosophical efforts. An attempt is made to trace the development of ideas in the West and to assess their impact on western culture. The great mediaeval philosophies culminating the thomistic synthesis constitute a substantial portion of the survey. An attempt is also made to acquaint the student with the major phases of modern and contemporary thought.

The study of ancient philosophy lays special stress on the Presocratics, Socrates, Plato, Aristotle, and Plotinus among the Greeks; and St. Augustine as representative of the early Christian philosophers. Mediaeval philosophy covers the development of Scholasticism to its most brilliant expression in the thomistic synthesis and ends with its decay and the rise of renaissance and modern philosophy.

62

The student is introduced to the modern periods through the works of Descartes, Locke, Hume, Kant, Hegel, Comte and Spencer. In addition, he is required to submit an essay of five thousand words on some other modern or contemporary author.

References: History of Mediaeval Philosophy. *DeWulf.*
Origins of Contemporary Philosophy.
Mercier.
History of Philosophy. *Turner.*
History of Philosophy. *Copleston.*
Unity of Philosophical Experience. *Gilson.*

Three hours per week, two semesters.

PHYSICS

Physics 1. *General Physics.* Introduction to Mechanics, Sound, Light, Heat and Electricity.

> TEXT: College Physics, *Stewart*, (Ginn). Fifth Edition.
>> *Lectures: Three hours a week, two semesters.*
>> *Laboratory: Three hours a week, two semesters.*

Physics 2. *Light, Heat and Sound.* Basic Physical laws related to Light, Heat and Sound are integrated and verified experimentally.

> TEXT: Sound, Light and Heat, *Duncan and Starling*, (Macmillan). Second Edition.
>> *Lectures: Three hours a week, two semesters.*
>> *Laboratory: Three hours a week, two semesters.*

Physics 3. *Electricity.*

> 3a. *Magnetism and Electricity.* Direct and Alternating currents with a practical mathematical analysis.

> 3b. *Electronics.* A lecture and laboratory course in which the basic principles and applications of thermionic emission are studied and investigated experimentally.
> TEXTS: Elements of Electricity, *Timbie*, (John Wylie).
>> An Introduction to Electronics, *Hudson*, (Macmillan).
>> *Lectures: Three hours a week, two semesters.*
>> *Laboratory: Three hours a week, two semesters.*

Physics 4. *Theoretical Physics.* Topics selected from potential theory, conduction of heat, diffusion, vibration, acoustics, elasticity, spectroscopy and nuclear physics.

> TEXT: Introduction to Theoretical Physics. *Page.* (Van Nostrand)
>> *Three hours a week, two semesters.*

Physics 5. *Electrical Measurements and Electron Physics.*

Liberation of electrons from atoms. Emissions. Ionizations.

Discharges in gases. Control of free electrons. Power, audio and radio frequences.

> TEXT: Ions, Electrons and Ionizing Radiations.
> *Crowther,* (Arnold)
>
> *Three hours a week, two semesters.*

Physics 6. *Applied Electronics.* A laboratory course to accompany Physics 5. Operational methods; measurements; application of electronic devices and circuits.

> TEXT: Electric Measurements, *Law,* (McGraw-Hill)
>
> *Laboratory: Three hours a week, two semesters.*

Physics 7. *Atomic Physics.* An introduction to quantum theory and wave mechanics by way of a review of the classical experiments of atomic physics.

> TEXT: Introduction to Modern Physics, *Richtmeyer,* (McGraw-Hill)
>
> *Three hours a week, two semesters.*

Physics 8. *The Physical Properties of the Atom.* A laboratory course to accompany Physics 7.

> Text: Procedure in Experimental Physics, *Strong.* (Prentice-Hall)
>
> *Laboratory: Three hours a week, two semesters.*

Physics 9. *Physical Optics.* Electromagnetic theory, interference, diffraction, polarization, spectrum analysis.

> TEXT: Physical Optics, *Robertson,* (Van Nostrand)
>
> *Two hours a week, two semesters.*

Physics 10. *Optical Instruments.* A laboratory course to accompany Physics 9. The use of glass and quartz spectographs, lumber plates, interferometers and polarimeters, and other optical apparatus.

> TEXT: Fundamentals of Physical Opticals, *Jenkins and White.* (McGraw-Hill)
>
> *Laboratory: Three hours a week, two semesters.*

POLITICAL SCIENCE

Political Science 1.

The State or Body Politic as distinct from the Nation; its history and determining elements. Types of States: forms of Government; theories of the State, Anarchism, Socialism, Guild Socialism, Bolshevism, Fascism; the totalitarian concept of government in theory and practice.

The Legislature, Executive and Judiciary in modern constitutional law; bicameral and unicameral systems; the electorate, various methods of democratic representation; referendum and plebiscite.

Constitutions of states; the British and American Constitutions; evolution of the British Commonwealth of Nations.

International relations and international law. Treaties. The League of Nations. The Permanent Court of International Justice. The Atlantic Charter. The Yalta Agreement. The Charter of the United Nations.

TEXT: Political Science (Revised Edition). *Gettell.* (Ginn).

Three hours a week, two semesters.

Political Science 2.

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

TEXT: Democratic Government and Politics.
J. A. Corry (University of Toronto Press).

Three hours a week, two semesters.

Political Science 3.

A seminar type course in political theory since 1850. Socialism, Democracy and the Problem of Authority and Liberty in the modern states.

TEXT: Recent Political Thought. *Francis W. Coker.* (Appleton Century).

Three hours a week, two semesters.

66

RELIGION

Religion 1. *The Old Testament:* its message for sacred history and for the Christian. This is chiefly concerned with an intensive reading of the Old Testament. Lectures will centre on the general rules of biblical interpretation, some problems of the Old Testament, the messianic message of its books, and the master ideas of the ancient dispensation.

The Gospels and the Life of Christ: a historical study.

> TEXTS: Holy Bible.
> The Life of Christ, *Ricciotti* (Bruce)

Religion 2.

The Church in the New Testament: This course studies the organic unity of sacred history by tracing the origin of the Mystical Christ from the Historical Christ. After studying the influence of the Roman, Greek and Hebrew cultures on the world of the First Century, the course proceeds to a close historical study of the early growth of the Church in this milieu as recorded in the rest of the New Testament. The basic sources are the Acts of the Apostles, the Epistles, especially St. Paul's, and the Apocalypse. The approach to these parts of the Bible is still historical.

Christ in His Church: Christ as Founder of the Church: the demonstration, from natural reason, of the Catholic Church as the Church founded by Christ. *Christ as Head of the Church:* a Dogmatic Study of the Church as the Mystical Body of Christ; the Supernatural Life communicated by Christ; the Mystical Body revealed and explained; the Juridical Structure, Authority and Membership in the Church. *Church and State:* Faith and Revealed Truth; Faith the Gateway of the Church; Faith as a source of knowledge; the Properties, Necessity, Rule and Object of Faith. Eschatology: Death, Judgment, Heaven and Hell.

> TEXTS: The New Testament: *Knox* (Burns, Oates and Washbourne)
> Encyclical Letter Mystici Corporis,
> *Pope Pius* XII (America Press).
> Christian Origins, Volues I and II: (Xavier University, Cincinnati, Ohio, 1943).
> The Teaching of the Catholic Church, *Smith.* (Burns, Oates, 1952).

Three hours a week, two semesters.

Religion 3.

The Dogmatic Theology of the One and Triune God; Creation; Grace; the Fall of Man and Original Sin; Christ, God and Man; Christ, Priest and Redeemer; the Blessed Virgin Mary.

TEXT: The Teaching of the Catholic Church, *Smith.* (Burns, Oates, 1952).

Three hours a week, two semesters.

Religion 4.

The Sacraments, their institution, nature and effect. The Sacrifice of the Mass. All are related in detail with proofs and explanation from the Scriptures, tradition, the teachings of the Fathers, the Councils.

TEXT: The Teaching of the Catholic Church, Smith. (Burns, Oates, 1952).

Three hours a week, two semesters.

SOCIOLOGY

Man as a Social Being; complexity of Social Life; external and internal influences on man; the Family; present-day decadence in family life; the State; history of Occupational Society; working conditions and workers' risks; Trade Unionism and Co-operation; organized Occupational Society; International Society; the School group; Housing and Recreation; Dependency and Relief; the Defective; Delinquency; the Race problem and the Immigrant; Catholic Action.

TEXT: Fundamental Sociology, *E. J. Ross,* (Bruce).

References: Current Social Problems, *Mihanovich.*
Catholic Social Principles, *Cronin.*
Introduction to Sociology, *Murray.*
Current Government Publications; Papal Encyclicals.

Two hours a week, two semesters

STRENGTH OF MATERIALS

Simple Stresses; Shear; Riveted Joints; Stresses in Thin Walled Cylinders; Welds; Torsion; Shear and Moment Diagrams for Beams; Stresses in Beams; Beam Deflection; combined Axial and Bending Stresses; Eccentric loads, Columns.

TEXTS: Strength of Materials, *Poorman*, (McGraw-Hill), Steel Construction, (American Institute of Steel Construction).

Three hours a week, one semester.

SURVEYING

Survey 1. A preliminary course dealing with the theory, adjustment, use and care of surveying instruments; fundamental surveying methods: measurements of lines, angles, differences in elevation; field practice in pacing, taping, surveying of areas, differential leveling.

TEXT: Elementary Surveying, *Breed and Hosmer*, (John Wylie) Eighth Edition.

Two hours a week, two semesters

Survey Camp. A three weeks surveying camp is held during the summer for all students who have completed Survey 1. The field work will include differential and profile leveling, traversing, topographical surveys, observation for meridian. This is a pre-requisite for Survey 2.

TEXT: Surveyors' Field Note Forms, *Bardsley & Carlton*, (International Text Book Co.)

Survey 2. Lecture course in the mathematical treatment of circular and parabolic curves, the computation of earthworks and the mathematical solution of astronomical problems involving the technique and field work for observation for latitude, longitude, meridian and time.

TEXT: Elementary Surveying, *Breed and Hosmer*, (John Wylie) Eighth Edition.

Two hours a week, two semesters.

TAXATION

A study of Income Tax and its application to incomes of individuals and corporations.

TEXT: The Income Tax Act (Federal) and the Regulations Under The Act.

One hour a week, two semesters.

THERMODYNAMICS

Energy in general; Thermal energy; Gases and Vapours; Combustion of Fuels; Heat Transfer; Compression of Gases; Utilization of Heat; Internal Combustion Engine; Steam Engine; Nozzles; Turbines; Condensers; Boilers; Power Plant Cycles; Refrigeration.

TEXTS: Thermodynamics, *Emswiler and Schwartz,* (McGraw-Hill), Thermodynamic Properties of Steam, *Keenan and Keyes,* (John Wiley).

Three hours a week, one semester.

DEGREES CONFERRED

HONORARY DEGREES OF DOCTOR OF LAWS

Right Honourable J. L. Ilsley, P.C., B.A., LL.B., D.C.L., LL.D.
Chief Justice of the Supreme Court of Nova Scotia

Right Reverend P. J. Nicholson, D.P., Ph.D., LL.D.
President, Saint Francis Xavier University

Honourable V. J. Pottier, LL.B.
Justice in Admiralty for the Province of Nova Scotia

DEGREE OF BACHELOR OF ARTS

DeLouchry, George John...................................Dartmouth, N.S.
Duggan, William Eric.......................................Halifax, N.S.
Fitzpatrick, Edward Thomas................................Halifax, N.S.
O'Driscoll, Albert Mary....................................Halifax, N.S.
O'Regan, Elmer Francis....................................Joggins, N.S.
Smith, Thomas Joseph.......................................Halifax, N.S.
Wallace, Bruce Howard......................................Halifax, N.S.
Waller, Leslie Raymond.....................................Halifax, N.S.

DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING

*Flinn, Robert James...Halifax, N.S.

DEGREE OF BACHELOR OF COMMERCE

Byrne, Lloyd George..Halifax, N.S.
Cable, Donald Patrick......................................Halifax, N.S.
MacDonald, John Ross.......................................Halifax, N.S.
Mantin, Dennis Ryan ....Halifax, N.S.

DIPLOMA OF ENGINEERING

*Ahern, Brian George..Halifax, N.S.
Burton, Thomas Gerard......................................Halifax, N.S.
Courtney, Cyril John.......................................Halifax, N.S.
*Leydon, Paul Edward..Halifax, N.S.
Napier, Paul Gerard..Halifax, N.S.
Noiles, Ronald Raymond....................................Dartmouth, N.S.
Richard, Robert James.....................................Dartmouth, N.S.
Scriven, James Alexander...................................Halifax, N.S.
*Ross, Robert Burns..Hamilton, Ont.

DIPLOMA OF JOURNALISM

Waller, Leslie Raymond.....................................Halifax, N.S.

*Degree in Absentia

MEDALS And PRIZES

ARTS

Highest Aggregate in Fourth Year Arts ....Thomas Joseph Smith
Gold Medal in memory of the late Archbishop McNally
Highest Aggregate in Third Year Arts ....Stanislaus McFadden
Highest Aggregate in Second Year Arts ....Albert George Roach
Highest Aggregate in First Year Arts............Patrick Murray Napier

SCIENCE

Highest Aggregate in First Year Science .....Robert Kenneth Carleton
Bernard Stephen Sheehan

COMMERCE

Highest Aggregate in Fourth Year Commerce .....Dennis Ryan Mantin
Gold Medal donated by His Excellency Bishop Leverman
Highest Aggregate nn Third Year Commerce......Harvey Joseph Meuse
Highest Aggregate in Second Year Commerce....Charles Alexander Dixon
Highest Aggregate in First Year Commerce..........Graham Adam Marr

ENGINEERING

Highest Aggregate in Third Year Engineering.....Cyril Joseph Courtney
Gold Medal donated by Mr. and Mrs. J. M. Inglis
in memory of their son; Delisle Inglis
Highest Aggregate in Second Year Engineering.......John Denis O'Neill
Highest Aggregate in First Year Ennineering........Edwin Thomas Bonn

RELIGION

Highest Four Year Aggregate......................Dennis Ryan Mantin
Gold Medal donated by Right Reverend William Burns, V.C., D.P.

PHILOSOPHY

Highest Four Year Aggregate.....................Dennis Ryan Mantin
Prize donated by Mr. and Mrs. W. A. Russell

ENGLISH

Highest Four Year Aggregate......................Bruce Howard Wallace
Gold Medal donated by Messrs. Henry Birks & Sons

LATIN

Highest Four Year Aggregate.......................Thomas Joseph Smith

FRENCH

Bronze Medal donated by the Cultural Relations Department
of the Republique Francaise..........Albert George Roach

MATHEMATICS

Highest Three Year Aggregate in Engineering....James Alexender Scriven
Gold Medal donated by Messrs. Henry Birks & Sons

ACCOUNTANCY

Highest Four Year Aggregate.......................John Ross MacDonald
Gold Medal donated by Saint Mary's University Ladies' Auxiliary

Economics..Stanislaus McFadden
Prize donated by Mr. Alban M. Murphy in memory of
Flying Officer Patrick Scott Murphy

Sociology...Bruce Howard Wallace

Public Speaking ....Douglas Murray
Gold Medal donated by Mr. A. J. Haliburton in memory of
Pilot Officer W. A. Haliburton

The W. F. Carroll Prize for English Essay............John Denis O'Neill
Fifty Dollars, donated by Honourable W. F. Carroll, M.P.

President's Prize....................................Donald Patrick Cable
awarded to the student who has made the most outstanding
contribution in scholarship and extra-curricular activities.

STUDENTS REGISTERED

Abularach, Alfonso .... Engineering 3 .... Guatemala, C.A.
Arscott, David .... Engineering 3 .... Saint John, N.B.

Bailly, William .... Commerce 2 ...... Armdale, N.S.
Barrett, John .... Arts 2 .... Truro, N.S.
Bayart, Victor .... Engineering 1 .... River Hebert, N.S.
Beaton, Maxwell .... Commerce 3 ...... Dartmouth, N.S.
Berrigan, Emmett .... Engineering 1 .... Halifax, N.S.
Berrigan, Patrick .... Engineering 1 ... Halifax, N.S.
Bonn, Edwin .... Engineering 2 .... Porter's Lake, N.S.
Boudreau, Cyril .... Science 1 .... Cheticamp, N.S.
Boudreau, Jules .... Engineering 1 .... Wedgeport, N.S.
Bowes, Lawrence .... Commerce 4 ...... Dartmouth, N.S.
Brean, Lawrence .... Arts 4 .... Halifax, N.S.
Briand, Daniel .... Commerce 1 ...... Sydney, N.S.
Britten, James .... Arts 3 .... Halifax, N.S.
Brophy, Gerard .... Engineering 1 .... New Glasgow, N.S.
Buckley, John .... Arts 2 .... Halifax, N.S.
Burchell, Peter .... Engineering 3 ... Dartmouth, N.S.
Burke, Edward .... Commerce 1 ...... Brighton, Mass, U.S.A.
Burns, John .... Science 1 .... Halifax, N.S.
Burton, Raymond .... Engineering 1 ... Halifax, N.S.
Butler, James .... Commerce 3 ...... Halifax, N.S.
Byrne, Hugh .... Arts 1 .... Liverpool, N.S.

Campbell, William .... Special .... Halifax, N.S.
Canham, Harold .... Commerce 2 ...... Halifax, N.S.
Carey, John .... Engineering 3 .... Moncton, N.B.
Carey, Raymond .... Commerce 2 ...... Moncton, N.B.
Carleton, Robert .... Arts 4 .... Halifax, N.S.
Cashen, Robert .... Commerce 2 ...... Halifax, N.S.
Cato, Ian .... Commerce 4 ...... Halifax, N.S.
Chapman, Harry .... Engineering 1 .... Dartmouth, N.S.
Chaisson, Norman .... Commerce 1 ...... Halifax, N.S.
Chiasson, Robert .... Commerce 2 ...... Halifax, N.S.
Chiasson, Thomas .... Arts 2 .... Margaree Forks, N.S.
Clarke, Harold .... Arts 2 .... Halifax, N.S.
Clarke, Thomas .... Engineering 3 .... Halifax, N.S.
Cleary, Kevin .... Engineering 1 .... Bishop's Falls, Nfld.
Cleyle, Victor .... Commerce 2 ...... Kentville, N.S.
Comeau, Adelbert .... Engineering 3 .... Concession, N.S.
Comeau, Desire .... Engineering 3 .... Meteghan River, N.S.
Connors, Douglas .... Arts 3 .... Halifax, N.S.
Conrad, Arthur .... Arts 4 .... Halifax, N.S.
Conrad, Edgar .... Arts 1 .... Saint John, N.B.
Conrad, Gerald .... Arts 2 .... Halifax, N.S.
Corbett, William .... Arts 1 .... Halifax, N.S.

Correia, Gilbert...........Arts 4............Bailey's Bay, Bermuda
Crowley, Leo.............Arts 3............Halifax, N.S.
Cruickshank, Laurence....Arts 4............Sheet Harbour, N.S.
Curran, William..........Arts 3............Halifax, N.S.
Curren, Kenneth.........Engineering 2....Birch Cove, N.S.
Currie, Donald............Engineering 2....Halifax, N.S.
Currie, William...........Arts 4............Woodside, N.S.

David, Gerald.............Arts 4............Halifax, N.S.
Davies, Robert............Commerce 3......Halifax, N.S.
Dean, John...............Arts 2............Halifax, N.S.
Deegan, Robert...........Arts 4............Halifax, N.S.
Deveau, Louis.............Engineering 2....Salmon River, N.S.
Diab, Wajih..............Engineering 3....Guatemala, C.A.
DiModica, Michael........Engineering 1....East Boston, Mass., U.S.A.
Dixon, Charles............Commerce 3.....Halifax, N.S.
Dockrill, Frederick.......Science 2.........Dartmouth, N.S.
Doucette, Paul...........Engineering 1....Melrose, Mass., U.S.A.
Downie, Allan............Engineering 1....Armdale, N.S.
Driscoll, John...........Arts 3............Halifax, N.S.
Driscoll, Kenneth.........Arts 4............Halifax, N.S.
Driscoll, Vernon..........Arts 1............Halifax, N.S.
Duggan, Eric.............Commerce 4......Halifax, N.S.
Dujay, Carl..............Commerce 1......Joggins, N.S.
Dysart, Albert...........Commerce 1......Irishtown, N.B.

Fagan, Omar.............Arts 1............Amherst, N.S.
Falconer, Robin..........Arts 1............Halifax, N.S.
Fellows, Kenneth.........Commerce 3......Halifax, N.S.
Fenton, David...........Commerce 3......Halifax, N.S.
Fitch, Francis............Engineering 3....Ottawa, Ontario
Flinn, Donald............Commerce 2......Halifax, N.S.
Flinn, Edward...........Arts 1............Halifax, N.S.
Flinn, James............Arts 1............Halifax, N.S.
Foran, Kenneth..........Arts-Journalism 1.Halifax, N.S.
Fraser, William..........Engineering 1....Halifax, N.S.
Frontaln, Gilbert........Engineering 1....Halifax, N.S.
Fry, Terence.............Engineering 1....Halifax, N.S.
Furlong, Robert..........Commerce 1......Musquodoboit Harbour, N.S.

Gagnon, Donald..........Engineering 1....Amherst, N.S.
Gallagher, Frederick......Engineering 1....Halifax, N.S.
Garceau, John...........Commerce 2......South Hanover, Mass, U.S.A.
Gavin, John.............Commerce 1.....Westphal, N.S.
Gervais, Frank..........Engineering 1....Halifax, N.S.
Gill, Boniface............Arts 2............Eastern Passage, N.S.
Gillis, Donald ....Arts 1 ....Halifax, N.S.
Glenister, John..........Arts 2............Halifax, N.S.
Gould, Ivan.............Commerce 1......Amherst, N.S.
Grant, Roy..............Arts 4............Summerside, P.E.I.
Granville, John...........Arts 4............Halifax, N.S.

Haley, Harold............Engineering 1....Halifax, N.S.
Haley, John.............Arts 1............Fort Fairfield, Maine, U.S.A.
Hallett, Robert..........Arts 1............Halifax, N.S.

Hanlon, Francis..........Engineering 2....Halifax, N.S.
Hardy, Kenneth..........Arts 3..........Halifax, N.S.
Hasfura, Carlos..........Engineering 1....San Salvador, El Salvador
Hawkins, Walter..........Arts 4..........Halifax, N.S.
Hayes, John..........Arts 3 ....Halifax, N.S.
Heenan, Peter..........Commerce 4......Halifax, N.S.
Heenan, Joseph..........Engineering 2....Halifax, N.S.
Hemphill, Lorne..........Commerce 3......Dartmouth, N.S.
Hernon, Brian..........Arts 4..........Halifax, N.S.
Hickey, Paul..........Engineering 1....Halifax, N.S.
Horne, Frederick..........Commerce 1......Enfield, N.S.
Hunt, Calixto..........Arts 2 ....Halifax, N.S.

Inglis, Bernard..........Commerce 3......Halifax, N.S.
Isaac, George..........Engineering 1....Halifax, N.S.
Isaac, Leo..........Arts 3 ....Halifax, N.S.
Isaacs, Albert..........Engineering 2....Halifax, N.S.

Jerrett, William..........Arts 4 ....St. Hubert, P.Q.
Johns, William..........Arts 1 ....Musquodobit Harbour, N.S.
Jones, Charles..........Commerce 4......Halifax, N.S.

Kelly, Everett..........Commerce 2......Halifax, N.S.
Kennedy, James..........Engineering 1....Halifax, N.S.
Kennedy, Thomas..........Arts 1 ....Halifax, N.S.
Kuri, Yamil..........Engineering 2....San Salvador, El Salvador

Lacey, Arthur..........Engineering 1....Halifax, N. S.
Lamothe, Roger..........Commerce 1......Newport, Vermont, U.S.A.
Lanfranchi, John..........Engineering 1....East Boston, Mass., U.S.A.

Latter, Gordon..........Engineering 2....Halifax, N.S.
LeBlanc, Ronald..........Arts 2 ....Shediac, N.B.
Leddy, Robert ....Science 4.........Highland Park, Mich., U.S.A.
Lockwood, Ronald........Engineering 1....Ragged Lake, N.S.
Lonc, John..........Engineering 1....London, Ontario
Lynch, Francis..........Arts 4..........Dartmouth, N.S.

McCaffrey, James .... Engineering 2....Halifax, N.S.
McCarron, Daniel.........Arts-Journalism 1St. Mary's Rd., P.E.I.
MacDonald, Robert........Engineering 1....Fairview, N.S.
McDonald, Terrence......Engineering 1....Halifax, N.S.
McDonald, William.......Arts 1..........Badger, Newfoundland
McDonald, Patrick........Arts 3..........Halifax, N.S.
MacDougall, Ian..........Engineering 3....Halifax, N.S.
McFadden, Anthony......Commerce 1......Halifax, N.S.
McFadden, Stanislaus.....Arts 4 ....Halifax, N.S.
MacFarland, Robert.......Engineering 1....Halifax, N.S.
McGrath, Francis..........Arts 2 ....Halifax, N.S.
MacIntyre, Donald........Commerce 4......Fairview, N.S.
MacKinnon, Donald.......Engineering 1....Dartmouth, N.S.
MacKnight, John..........Engineering 1....Boutilier's Point, N.S.
McNeil, Gerard..........Arts-Journalism 2Dartmouth, N.S.
MacPherson, Kevin.......Arts 1..........New Waterford, N.S.

Mahar, Victor............Arts 1...........Halifax, N.S.
Mahar, William..........Science 3.........Halifax, N.S.
Malay, Edgar............Science 1.........Halifax, N.S.
Mansour, Joseph.........Engineering 1....Halifax, N.S.
Mansour, Robert.........Engineering 1....Halifax, N.S.
Mansour, Ronald.........Engineering 1....Halifax, N.S.
Marr, Graham ....Commerce 2......Halifax, N.S.
Martel, Wilbert..........Commerce 3......Halifax, N.S.
Martin, Basil ....Engineering 2....Halifax, N.S.
Martin, Gerald..........Engineering 1....Dartmouth, N.S.
Martin, John.............Arts-Journalism 3 Halifax, N.S.
Maselli, Fernando.......Engineering 3....Guatemala, C.A.
Mason, Edward..........Arts 2...........Halifax, N.S.
Masterman, Harold.......Arts 3...........Halifax, N.S.
Matthews, Francis.......Commerce 4......Imperoyal, N.S.
Meuse, Harvie...........Commerce 4......Halifax, N.S.
Mielke, Peter...........Commerce 2......Halifax, N.S.
Miller, John............Commerce 4......Halifax, N.S.
Moir, Robert ....Commerce 3......Halifax, N.S.
Mombourquette, Raymond.Arts 3...........Halifax, N.S.
Morris, Denis ....Engineering 2....Westfield, N.B.
Muise, Thomas..........Commerce 2......Halifax, N.S.
Mulford, Enrique........Arts 4...........Halifax, N.S.
Murphy, Donald.........Arts 1...........Halifax, N.S.
Murphy, Paul ....Engineering 1....Halifax, N.S.
Murray, Douglas........Arts 3...........Halifax, N.S.
Murray, Edmund.........Arts 3...........Halifax, N.S.
Murphy, Joseph.........Commerce 3......Moncton, N.B.

Nadeau, Leonard........Engineering 1....Edmunston, N.B.
Napier, Patrick L.......Arts 4...........Halifax, N.S.
Napier, P. Murray.......Arts 2...........Halifax, N.S.
Nolan, Francis..........Engineering 3....Halifax, N.S.
Nooyen, Wim............Engineering 1....Uden, Holland

O'Connell, Robert.......Arts 3...........Halifax, N.S.
O'Hearn, Francis........Engineering 1....Halifax, N.S.
O'Neill, John...........Engineering 3....Dartmouth, N.S.
O'Neill, Paul...........Arts 2...........Yarmouth, N.S.
Osborne, Thomas........Arts 1...........Imperoyal, N.S.

Pelham, David..........Engineering 3....Halifax, N.S.
Pelrine, Joseph.........Commerce 1 .....Tuft's Cove, N.S.
Pereira, Richard........Engineering 3....St. Kitts, B.W.I.
Pinet, Yves ....Commerce 1......Halifax, N.S.
Pottie, Joseph.........Arts 3 ....Halifax, N.S.
Pottie, Thomas.........Arts 3 ....Halifax, N.S.
Potvin, Gilles.........Engineering 2....Chicoutimi, P.Q.
Power, Donald.........Commerce 3 .....Halifax, N.S.
Punch, Terrence........Arts-Journalism 1·Halifax, N.S.

Randall, Hughes........Arts 1...........Halifax, N.S.
Raymond, Gerald.......Science 4.........Digby Co., N.S.
Reardon, Donald........Commerce 2......Halifax, N.S.

Redmond, Kenneth........Engineering 1....Dartmouth, N.S.
Reid, William.............Science 3.........Halifax, N.S.
Riordan, James ....Engineering 2....Halifax, N.S.
Roach, Albert.............Arts 3............Halifax, N.S.
Roberts, Fred............Engineering 3....Hermitage, Nfld.
Robertson, Kenneth.......Arts 4............Halifax, N.S.
Rorai, Albert.............Arts-Journalism 1 Halifax, N.S.
Rorai, Victor.............Arts 3............Armdale, N.S.

Sark, John...............Commerce 1......Lennox Island, P.E.I.
Sawler, James...........Commerce 2......Dartmouth, N.S.
Scarfe, Donal............Engineering 1....Jollimore, N.S.
Sheehan, Bernard........Engineering 2....Halifax, N.S.
Shemdin, Qidar..........Engineering 3....Zakho, Iraq
Sing, Roy................Science 1........Halifax, N.S.
Slaunwhite, Harry........Engineering 3....Halifax, N.S.
Slaunwhite, Ronald.......Engineering 2....Spryfield, N.S.
Smith, Donald............Arts 2 ....Halifax, N.S.
Spafford, Warren.........Arts 2...........Sherbrooke, P.Q.
Stenton, Edward.........Arts 1...........Halifax, N.S.
Sullivan, William.........Engineering 2 ...Halifax, N.S.
Sumarah, Roger..........Commerce 1......Charlottetown, P.E.I.
Surette, Edward..........Engineering 2....Lower Saulnierville, N.S.
Swindles, Robert.........Engineering 1....Halifax, N.S.

Toner, Allison...........Commerce 1......Grand Falls, N.B.
Trainor, James..........Commerce 1......Halifax, N.S.

Urquhart, James.........Engineering 1....Dartmouth, N.S.

Van den Akker, Henry...Engineering 2....Heeswijk, Holland
Vaughan, Frederick.......Arts 2...........Halifax, N.S.
Vriend, Kees.............Engineering 1....Amherst, N.S.

Waddell, Alfred...........Engineering 3....Halifax, N.S.
Walker, Darrell...........Engineering 2....Halifax, N.S.
Warner, James...........Engineering 3....Halifax, N.S.
Wayland, Blake...........Engineering 1....Halifax, N.S.
Whelly, James............Arts 2 ....Dartmouth, N.S.
Whelly, John.............Science 2 ....Dartmouth, N.S.
Williams, Donald.........Engineering 1....Saint John, N.B.
Young, Edward...........Engineering 3....Halifax, N.S.
Young, Robert...........Engineering 1....Millidgeville, N.B.

Zwerling, Saul...........Commerce 4......Halifax, N.S.