

CALENDAR

of

The University of
Saint Mary's College

HALIFAX, NOVA SCOTIA

Under the direction of the Jesuit Fathers

1950 - 1951

A. M. D. G.

Halifax, N. S. Canada

1950

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ACADEMIC CALENDAR YEAR

1950

- Sept. 18-23 Supplemental Examinations.
Sept. 18-23 Registration.
Sept. 27 Lectures begin.
Oct. 18 Alumni General Meeting.
Nov. 1 All Saints' Day.
Nov. 11 Remembrance Day. Requiem Mass for deceased Alumni.
Dec. 8 Patronal Feast of the Immaculate Conception. Sodality reception.
Dec. 21 Christmas Recess.

1951

- Jan. 9 Lectures resumed.
Jan. 22 Term Examinations.
Feb. 5 Second Semester begins.
Mar. 14 Public Speaking Contest.
Mar. 21 Easter recess begins after morning lectures.
Mar. 27 Lectures resumed.
May 1 Final Examinations.
May 7 Survey Camp.
May 11 Meeting of the Senate.
May 16 High Mass, Baccalaureate Sermon.
May 17 Convocation.

Senate of Saint Mary's College

As Constituted in Accordance with the Act of 1918.

CHANCELLOR

HIS EXCELLENCY, MOST REVEREND J. T. McNALLY, D.
The Archbishop of Halifax.

VICE-CHANCELLOR

RIGHT REVEREND WILLIAM J. BURNS, D.P., V.G.

MEMBERS

MOST REVEREND ALFRED LEVERMAN, D.D.,
Auxiliary Bishop of Halifax.

VERY REVEREND T. J. MULLALLY, S.J.,
President.

GEORGE H. MURPHY, M.D., C.M., F.A.C.S.

WILLIAM F. CARROLL, B.A., LL.B., LL.D.

ERNEST I. GLENISTER, B.A., M.D., C.M.

GERALD P. FLAVIN, LL.B.

JOHN A. WALKER, M.A., LL.B.

REVEREND J. L. QUINAN, S.T.B., J.C.B., P.P.

REVEREND HENRY LABELLE, S.J., Sec. of Senate.

REVEREND CYRIL J. MARTIN, P.P.

WILFRED J. DYER, M.D., B.Sc.

ARTHUR J. HALIBURTON, Esq.

LIEUT-COL. SIDNEY C. OLAND, V.D., A.D.C., LL.D.

BERNARD A. O'LEARY, C.E., B.Sc., M.E.I.C.

RIGHT REVEREND CHARLES F. CURRAN, D.D., V.F.

NORMAN STANBURY, Esq.

THOMAS J. HANRAHAN, Esq.

HON. HAROLD CONNOLLY, LL.D.

SAINT MARY'S COLLEGE

HISTORY

AS 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 amongst 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 17th March 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 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 Home.

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 Excellency, 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.

College Organizations

The extra-curricular organizations listed below are officially recognized by the College. 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 College 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

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, St. Mary's College Unit. This organization aims at the creation of an active and effective interest in Catholic Foreign Missions. Through its activities assistance, financial and other, 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 College government in all non-academic matters and in accordance with the powers conferred by the President.

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

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 2, 3, or 4. 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.

St. Mary's College 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, College Letters and other awards are regulated.

St. 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 College. It possesses, under circumstances determined by the Act of Incorporation of the College, the right of appointing a member to the Senate of the College. 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 College.

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.

Saint Mary's College Contingent Officers' Training Corps. The College 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.

The University Naval Training Division (U.N.T.D.) provides suitable candidates with an opportunity for undergoing training during the scholastic year and the summer vacations whereby students may qualify for commissioned rank in the Royal Canadian Navy. While undergoing both theoretical and practical training students are paid at the regular service rates of the Royal Canadian Navy.

ADMISSION REQUIREMENTS

Matriculation. To be admitted to College as an undergraduate a candidate must offer credit in six matriculation subjects.

Advanced Standing. Applicants who present Nova Scotia Grade XII certificates, or the equivalent, may at the discretion of the Board of Studies receive credit in the following subjects: Algebra (Maths. 1a); Trigonometry (Maths. 1c); English 1, French 1 or Latin 1.

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

A student must have the approval of the Registrar for any course selected, and having obtained approval may not subsequently change courses without the sanction of the Registrar.

Fees for the first semester must be paid before or at the time of registration. A student will receive no credit for any courses attended until such fees are paid.

ACADEMIC REGULATIONS

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

Students must in all respects satisfy and conform to the conditions, rules and regulations from time to time set forth in the College calendar.

No student is eligible for prizes or distinctions in any subject in which he has, without satisfactory reason, failed to make ninety per cent of the total attendance in such subject. Students failing to meet this standard of attendance may also be debarred from writing examinations.

The passing mark is 50% in all subjects. A mark between 40% and 50% is a "condition" which must be removed by a supplemental examination in the following September, otherwise the subject must be repeated before the student may proceed in that subject.

A mark below 40% constitutes a failure and deprives a student of any credit in that subject.

Freshmen who have conditions in more than two subjects must repeat Freshman year.

No student will be admitted to Senior year in any course with conditions outstanding in any subject.

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.

BURSAR'S REGULATIONS

1. Term accounts are payable strictly in advance; one at the time of registration in September, the other before the beginning of the second term in February.

2. Term fees for board, tuition and other charges listed on page 17 are not refundable in the event of a student's withdrawal or dismissal during term. A fractional rebate for board and tuition may be granted for absence due to sickness if the absence extends beyond one month.

3. Any damage done to College buildings, furniture or equipment will be charged to the offending student.

4. Music lessons, Druggist's, Doctor's, Hospital and other outside accounts will not be handled by the Bursar unless a deposit to cover these expenses has been made with the Bursar.

5. Drafts, cheques, money orders etc., should be made payable at par to ST. MARY'S COLLEGE.

6. Students who remain at the College during vacations will be charged \$2.00 a day for board.

7. An additional fee of \$100.00 is charged for students from outside of Canada.

8. The College accepts no responsibility for accidents or loss of time incurred in taking part in student activities.

9. The College does not advance money for the purchase of text books or stationery.

FEEES

Tuition	\$120.00 a year
Board	330.00 a year
General Charge	10.00 a year

This charge covers Examinations, Athletic, Library, Collegian and Journal Fees.

DAY STUDENTS

First Term—Tuition and General Charge	\$ 70.00
Second Term—Tuition	60.00

Laundry for Resident students will be charged at regular laundry rates.

RESIDENT STUDENTS

First Term—Board, Tuition and General Charge	\$235.00
Second Term—Board and Tuition	225.00

Registration Fee (Payable on entrance only)	\$ 5.00
Laboratory Fee for Physics, Chemistry, Surveying, each	15.00
Draughting Room Fee (for each course)	7.00
Geology Laboratory Fee	5.00
Supplemental Examination Fee	2.00
Special Examination Fee	5.00
Transcript of Record or Statement under the College Seal	1.00
Graduation Fee with Degree	10.00
Diploma in Journalism	10.00
Diploma in Engineering	5.00
Tuition in the School of Journalism	\$150.00

Other fees as above.

FACULTIES

ARTS FACULTY

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. (Political Science, Economics and Sociology, Social Problems).

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.

If either Chemistry or Physics is elected, Mathematics must also be taken.

Latin is obligatory for two years for all Arts students.

For the combined Arts and Journalism course, as explained on page 21, the following subjects must be added to the course above required for the Bachelor of Arts degree:

Journalism 1
Assignment Work

Journalism 2

Journalism 3
English 3J.

COMMERCE FACULTY

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 commercial 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	Auditing 1	Auditing 2
English 1	Economics 2	Economics 3	Economics 4
French 1	English 2	English 3	English 4
Mathematics 1	French 2	Philosophy 3	History 4
Philosophy 1	Philosophy 2	Political Science	Philosophy 4
Religion 1	Religion 2	Religion 3	Religion 4
			Sociology

Students in Arts may obtain 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 18.

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

ENGINEERING FACULTY

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 year of its five year course. The first three years are given only at the associated Colleges, of which St. 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, either Civil, Electrical, Mechanical 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, with the addition of Mechanics 2 in third year.

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

English 1
French 1
Journalism 1
History 2
History of Science
Philosophy 1
Religion 1

SECOND YEAR

Assignment Work
English 2
French 2
Journalism 2
History 4
Psychology (Phil. 2)
Religion 2

THIRD YEAR

English 3
Journalism 3
Ethics (Phil. 3)
Political Science
Religion 3
Sociology

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 eighteen:

Journalism 1
Assignment Work

Journalism 2

Journalism 3
English 3J

COURSES OF STUDY

Bachelor of Arts

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
English 1	English 2	English 3	English 4
Philosophy 1	Philosophy 3	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

Bachelor of Commerce

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

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 B.Sc. course, 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	

Courses of Instruction

ACCOUNTING

Accounting 1. Fundamental Accounting. The Journal and Journalizing; the Ledger, Posting, Trial Balance; the Work Sheet, Profit and Loss statement, Balance Sheet; Cash, Purchases, Sales and General Journals; Notes and Drafts; Deferred Charges.

TEXT: Twentieth Century Accounting, I, *Carlson, Prickett, Forkner*, (Southwestern Publishing Co.).

References: Principles of Accounting, *Finney*; Accounting, Principles and Practice, *Hatfield, Sanders, Burton*.

Three hours a week, two semesters.

Accounting 2. General Accounting. Columnar Journals; Controlling Accounts; Partnership Accounting; Voucher System; Adjustment of Accounts; Accruals; Corporation Accounting; Manufacturing Accounting; Instalment, Departmental, Consignment Sales; Comparative Reports and Graphs.

TEXT: Twentieth Century Accounting, II, *Carlson, Prickett, Forkner*, (Southwestern Publishing Co.).

References: Principles of Accounting, *Finney*; Accounting, Principles and Practice, *Hatfield, Sanders, Burton*.

Lectures: Three hours a week, two semesters.

Laboratory: Two hours a week, two semesters.

Accounting 3. Corporation Accounting 1. Forms of Business Organization; Entries to open Books of Account; Company Books and Statements; Classes of Stock; Conversion of Partnership into a Joint Stock Company; Profits, Appropriations and Balance Sheet; Shares without par value; Conversion; Increase or Decrease of Capital Stock; Donated Shares; Treasury Stock; Forfeiture of Shares; Debenture Bonds and

Mortgage Bonds; Sinking Funds; Manufacturing Accounts, Financial Statements.

TEXT: Limited Companies and their Accounts, *Ferguson and Crocombe*, (Pitman).

Reference: Principles of Accounting, Intermediate, *Finney*; Accounting Principles and Practices, *Smails and Walker*.

Lectures: Three hours a week, two semesters.

Laboratory: Two hours a week, two semesters.

Accounting 4. Corporation Accounting 2. Amalgamation of Companies; Holding Companies, Consolidated Balance Sheets, Factors affecting Financial Statements, Taking up profits of Subsidiaries, Sinking funds of Subsidiaries, Preferred and Common Shares held by Parent Company; Reconstruction, Reorganization; Preferred Shares in winding up; Corporation Terminology; Source and Application of Funds.

TEXT: Limited Companies and their Accounts, *Ferguson and Crocombe*, (Pitman).

References: Principles of Accounting, Advanced, *Finney*; Accounting Principles and Practice, *Smails and Walker*.

Lectures: Three hours a week, two semesters.

Laboratory: Two hours a week, two semesters.

AUDITING

Prerequisites: Accounting 1 and 2.

Auditing 1. General Principles of Auditing. Duties and Responsibilities of Auditors; Analysis of Accounts; Auditing Methods; Problems;

TEXT: *Smails* on Auditing.

Two hours a week, two semesters.

Auditing 2. Advanced Auditing. Types of Audits, their advantages and limitations; Examination of Audit Reports; Problems.

TEXT: Auditing. Theory and Practice, by *Lenhart, Jennings*. Ronald Press.

Two 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)

Lectures: Two hours a week, two semesters

Laboratory: Three hours a week, two semesters.

Chemistry 2. Inorganic Analytical Chemistry. An introductory course in the theory and techniques of inorganic qualitative analysis; detection of acidic and basic radicals in mixtures of salts; Ionic equilibria, solubility products, etc.

TEXTS: Qualitative Analysis, *Engelder*, (John Wiley).
Qualitative Analysis, *Hardsuch*, (John Wiley).

Lectures: One hour a week, two semesters.

Laboratory: Six hours a week, two semesters.

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 in particular of those of greater importance to industry or medicine.

TEXT: Organic Chemistry: *Perkin & Kipping*, (Lippincott).

Lectures: Three hours a week, two semesters.

Laboratory: Three 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.

TEXTS: Technical Drawing; Technical Drawing Problems, Giesecke, Mitchell & Spenser, (Macmillan).

Three hours a week, two semesters.

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

Two hours a week, one semester.

Draughting 2b. 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 & Spenser, (Macmillan).

Three hours a week, one semester.

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. *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. American Economic History. (1949-1950).

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, two semesters.

Regular compulsory assignments.

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).

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. *Shakespearean Drama*. Study and discussion of the plays of Shakespeare and the literary canons they exemplify. References to and evaluation of representative Shakespearean 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).

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, More, 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).

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.

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 College Debating Society.

TEXTS: *The Literature of England, Vol. II, Woods, Watt, Anderson, (Scott, Foresman).*
The Catholic Revival in Literature, Alexander, (Bruce).

Four hours a week, two semesters.

FRENCH

French 1. A thorough review of Grammar, supplemented by a course of translation from French into English and English into French, involving harder syntactical constructions. Drill in dictation and conversation. Translation from modern authors into English.

Four hours a week, two semesters.

Text: To be announced.

French 2. Grammar review emphasising verb forms and idiomatic expression. A part of each period will be devoted to French conversation. A study of two selected classics, one each semester. Readings and conversations on material in "Figaro".

Three hours a week, two semesters,

Text: To be announced.

French 3. A survey of French Literature from the Renaissance to the Revolution.

A critical study of representative essayists, dramatists and poets: Ronsard, Montaigne, Corneille, Moliere, LaFontaine, Racine.

Collateral readings and reports.

Three hours a week, two semesters,

Text: To be announced.

French 4. History of French Literature of the Nineteenth and Twentieth century. Selections from Lamartine, Merimee, Balsac, Hugo, Daudet.

Study and book reports on contemporary writers.

Three hours a week, two semesters,

Text: To be announced.

GEOLOGY

This course lays special emphasis on the application of geologic principles to the problems of engineering. A brief synopsis of stratigraphical and historical geology. A microscopic study of rocks with special reference to forms of description and methods of classification as represented by a standard set of fifty books. Thesis Requirement on the Geological Structure of Nova Scotia.

TEXT: Geology, *Emmons, Thiel, Stauffer, Allison*, (Ginn).

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, two semesters.

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 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: Christian Era, Weber Vol. I., (Catholic Education Press).

Two 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).

Two 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 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).

Two 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)

Two 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, *Nordenskiöld*; A History of Chemistry, *Brown*; Greek Astronomy, *Heath*; A Short History of Medicine, *Singer*; The Autobiography of Science, *Moulton and Schifferes*.

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; Ethics and Public Relations. 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.

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.

Two hours a week, two semesters.

LATIN

Latin 1.

- 1a. *Authors.* Cicero, Pro Archia; Virgil, Aeneid II; Ovid, Metamorphoses; Sallust, Bellum.
- 1b. *Composition.* Based on prescribed authors.
- 1c. *Roman History.* Text to be announced.

Four hours a week, two semesters.

Latin 2.

- 2a. *Authors.* Cicero, Pro Lege Manilia; Livy, Book XXI; Virgil, Aeneid VI.
- 2b. *Composition.* Based on prescribed authors.
- 2c. *History of Latin Literature.* Latin Literature, Mackail.

Four hours a week, two semesters.

Latin 3.

- 3a. *Authors.* Horace, Odes & Epodes, Ars Poetica, Satires & Epistles.
- 3b. *Composition.* Bradley's Arnold, ex. 1-34.
- 3c. *Latin Prosody,* A study of the rules of Latin prosody, scansion and verse forms.

Four hours a week, two semesters.

Latin 4.

- 4a. Tacitus; the minor poets, Ennius, Catullus, Tibullus, Phaedrus, Seneca, Martial.
- 4b. *Composition.* Bradley's Arnold, exercises 35-57.
- 4c. *Ecclesiastical Latin.* From Latin for Use, Holsapple, (Crofts).

Four 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 IA (Arts and Commerce)

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

TEXT: Basic Mathematics, A Workbook. *Keller, Zant.* (Houghton, Mifflin)

Three hours a week, one semester.

1b. Elementary Trigonometry and an introduction to Calculus.

TEXTS: Elementary Trigonometry, *Evans.* (Ginn)
Basic Mathematics, *Keller, Zant.* (Houghton, Mifflin)

Three hours a week, one semester.

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, Logarithms, Solutions of Triangles, Heights, Distances.

TEXTS: Senior Algebra, *Crawford.* (Macmillan)
Basic Mathematics. *Keller, Zant.* (Houghton, Mifflin)

Elementary Trigonometry, *Evans.* (Ginn)

Five hours a week, two semesters.

Mathematics 2A. (Arts and Commerce)

2a. *Mathematics of Finance.* Commercial Algebra; Equations, Proportion, Percentage, Interest, Discount, Exponents, Radicals, Compound Interest, Annuities, Life Insurance.

Three hours a week, one semester.

TEXT: *Mathematics of Finance: Simpson, Pirenian, Crenshaw.* (Prentice-Hall).

2b. *Statistical Procedures.* 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 2E.

2c. *Analytic Geometry.* Co-ordinate systems, Transformations, Loci and their equations, the Straight Line, Circle, Parabola, Ellipse, Hyperbola; elementary Analytic Geometry of three dimensions.

TEXT: *Analytic Geometry, Robinson* (McGraw-Hill)
Three hours a week, one semester.

2d. *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: *Calculus, Evans,* (Ginn).

Three hours a week, one semester.

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: *Calculus, Evans,* (Ginn).

Three hours a week, two semesters.

Mathematics 4.

4a. Mathematical Analysis. Complex Quantities and 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. Spherical Trigonometry. Relations between the sides and angles of a spherical triangle. Solution of the terrestrial and astronomical triangles. Problems in navigation, surveying and astronomy.

TEXT: Spherical Trigonometry, *Murray*, (Longmans).

One hour a week, one semester.

4c. Differential Equations. A study of Differential Equations and their applications, more advanced than in Mathematics 3.

TEXT: Differential Equations, *Murray*, (Longmans).

Two hours a week, one semester.

MECHANICS

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

TEXT: Kinematics of Machines, *Guillet*, (Wiley)

Four hours a week, two semesters.

Mechanics 2. Applied Mechanics. Co-planar force systems, graphical and analytic methods, application to determination of stresses in common trusses and cranes; 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.

PHILOSOPHY

Philosophy 1.

1a. *Logic*. Formal Logic, in the traditional manner, to which is added an elementary course in induction.

TEXT: Folio

References: Science of Correct Thinking, *Bittle*. (Bruce)
Formal Logic, J. Maritain.

Three hours a week, one semester.

1b. *Epistemology*. The problem of knowledge; truth and error; certitude; motives for certitude; scepticism, Cartesian, Doubt, Idealism, Relativism, Pragmatism, the problem of the Universals, the criterion of truth; Induction and Deduction.

TEXT: Reality and the Mind. *Bittle*. (Bruce)

Three hours a week, one semester.

Philosophy 2. *Psychology and Natural Theology* (1950-1951)

2a. General Introduction to Psychology. Man is studied as a living organism. The nature of life, the nervous system, the senses, internal and external; imagination, memory, instinct and appetite are studied as functions of the animal organism. Modern experiments in psychology are surveyed and their contributions evaluated. Man is then studied as a rational animal. Intellection, volition, freedom of the will, the nature of the soul, its spirituality, immortality and its origin. The human person and its destiny.

TEXT: The Whole man. *Bittle*. (Bruce)

References: Psychology, *Maher*

Principles of Psychology, *Harmon*

Summa Theologica, Part 1, *St. Thomas Aquinas*.

2b. *Natural Theology*. The existence of God, His nature and attributes. Creation, Providence. Theism and Atheism.

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

References: Natural Theology, *Joyce*.

Manual of Scholastic Philosophy, *Mercier*.

Psychology: 60 hours. Natural Theology, 30 hours.

Philosophy 3. (1951-1952)

3a. *Ethics.* (1) General Ethics. The nature of human acts; the morality of actions; the distinction between moral good and moral evil; duty; natural law, positive law; norm and criteria of morality, rights.

(2) The application of general principles; individual and social right and obligations; Natural Religion; nature of private property; domestic society; marriage and divorce; civil society, its nature and forms; socialism; the philosophy of Communism. Church and State; international law; peace and war.

TEXT: Folio

References: Liberty, Its Use and Abuse. *Cox.*
The Science of Ethics. *Cronin.*
Reading in Ethics. *Leibel.*

Four hours, one semester.

3b. (1) *General Metaphysics.* Ontology; the notion of Act and Potency; the notion of Being; Causes and the Principle of Causality; Finality; the Transcendentals; the Predicaments; Substances and Accidents; Relations.

TEXT: The Domain of Being. *Bittle* (Bruce)

References: The Philosophy of Being. *Renard.*
General Metaphysics. *Rickaby.*
Manual of Modern Scholastic Philosophy.
Mercier.

(2) *Special Metaphysics.* Cosmology: the nature and origin of the material universe; the nature of physical bodies; the constitution of matter; space, time, motion.

References: From Aether to Cosmos. *Bittle.* (Bruce)
Cosmology, *Williams.*

Four hours, one semester.

Philosophy 4.

4a. Ancient Philosophy with particular attention to the teachings of Socrates, Plato, Aristotle and Plotinus among the Greeks; and to St. Augustine as representative of the early Christian philosophers.

4b. *Mediaeval Philosophy*: the development of Scholastic Philosophy and the system of St. Thomas Aquinas as the complete synthesis of Mediaeval thought.

4c. *Modern Philosophy*: Descartes, Locke, Hume, Kant, Hegel, Comte and Spencer are taken for special study. The revival of Scholasticism and the Realistic movement are treated as present day tendencies.

References History of Mediaeval Philosophy. *DeWulf*.
Origins of Contemporary Philosophy.
Mercier.
History of Philosophy. *Turner*.
History of Philosophy. *Copleston*.

Three hours per week, two semesters.

PHYSICS

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

TEXT: *College Physics, Stewart, (Ginn).*

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).*

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.

POLITICAL SCIENCE

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: This course will be taught principally from Government publications, national Constitutions and other pertinent documents.

Three hours a week, two semesters.

RELIGION

Religion 1. The Christian Revelation; the documents of revelation, the Gospels, their genuinity and trustworthiness; Christ's claims, a Prophet, the Messiah, the Son of God, True God; the proofs of Christ's claims, His prophecies and miracles, the Resurrection. The Church of Christ; its mission; the College of Apostles; the Primacy of Peter; Authority, Infallibility, Necessity of the Church; its marks, One, Holy, Catholic and Apostolic. Church and State.

TEXT: The Defense of the Catholic Church, *Doyle*, (Benziger).

Four periods a week, two semesters.

Religion 2. Faith, nature and obligation; the Rule of Faith; the existence of God, His Attributes; the Trinity; the Creator; Creation and Evolution; the end of Creation; Original Justice and Original Sin; the Immaculate Conception; the Human Soul; the Angels; Judgment, Hell, Purgatory, Heaven.

TEXT: God and Creation, *Chetwood*, (Benziger).

Four periods a week, two semesters.

Religion 3. Redemption; the hypostatic union; the human will and human intellect of Christ; the Redeemer; Priest, Prophet and King; the worship of Christ. Mary and the Divine maternity; devotion to Mary and the Saints; veneration of relics and images; Actual grace, its necessity; Efficacious grace; Justification and Sanctifying Grace.

TEXT: God the Redeemer, *Herzog*, (Benziger).

Four periods 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 explanations from the Scriptures, tradition, the teachings of the Fathers, the Councils.

TEXT: Channels of Redemption, *Herzog*, (Benziger).

Four periods 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: Rudiments of Sociology, *E. J. Ross*, (Bruce).

References: Current Government publications; the Papal Encyclicals.

Three 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 Wiley).

Three hours a week, two semesters.

Survey Camp. A three weeks surveying camp is held at Truro, N. S., 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 Wiley).

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.