

CALENDAR  
of  
The University of  
Saint Mary's College

HALIFAX, N. S., CANADA

UNDER THE DIRECTION OF THE JESUIT FATHERS

1944-1945

A. M. D. G.

HALIFAX, NOVA SCOTIA

1944

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# ACADEMIC CALENDAR, 1944-45

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## 1944

- Sept. 2-23 Surveying Camp at Truro.  
Sept. 18 Supplemental Examinations.  
Sept. 23 Registration of Students.  
Sept. 25 Lectures Begin.  
Oct. .. Thanksgiving Day.  
Oct. 20 Alumni General Meeting.  
Nov. 1 All Saints Day.  
Nov. 11 Remembrance Day. Requiem Mass for Alumni. C.O.T.C.  
Church Parade.  
Dec. 8 Feast of the Immaculate Conception. Patronal Feast.  
Sodality Reception.  
Dec. 20 Christmas Recess begins after Morning Lectures.

## 1945

- Jan. 10 Lectures Resumed.  
Jan. 14 General Meeting of Graduates Society.  
Jan. 18 Half-yearly Examinations Begin.  
Mar. 26 Public Speaking Contest.  
Mar. 28 Easter Recess Begins at Noon.  
Apr. 3 Lectures Resumed.  
May 4 Final Examinations Begin.  
May 17 Annual C.O.T.C. Banquet.  
May 19 Pontifical High Mass. Baccalaureate Sermon.  
May 21 Convocation.

# SENATE OF SAINT MARY'S COLLEGE

As Constituted in Accordance with the  
Act of 1918

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## CHANCELLOR

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

## VICE-CHANCELLOR

RIGHT REV. MONS. ALPHONSUS R. DONAHOE, Ph.D., J.C.D.

## MEMBERS

RIGHT REV. MONS. JOSEPH CURRY, P.P.

VERY REV. F. C. SMITH, S.J., President.

RIGHT REV. W. BURNS, V.G.

HON. R. G. BEAZLEY.

HON. R. E. FINN, K.C.

SIR JOSEPH CHISHOLM, Kt., LL.D., Chief Justice of Nova Scotia.

WILLIAM R. POWELL, Esq.

JOHN J. PENNY, M.A.

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

HON. MR. JUSTICE W. F. CARROLL, B.A., LL.B.

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

GERALD P. FLAVIN, LL.B.

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

M. J. CARNEY, B.A., M.D., C.M., F.R.C.P.

R. W. McCOLOUGH, S.B., M.E.I.C.

REV. J. L. QUINAN.

REV. E. F. CHABOT, S. J.



# SAINT MARY'S COLLEGE

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## 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 Hannon, 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 St. 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 Hannon 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. St. 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 in 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, the present Provincial of the Congrega-



tion, 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 the 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.

On June 24, 1943, *The Halifax Mail* announced that the club house of the Gorsebrook Golf Club and the club grounds south of Inglis Street had been purchased by the Catholic Archdiocese of Halifax as a future site of St. Mary's College. “The property . . . will provide this educational institution with one of the finest buildings and campus sites in Canada . . . Gorsebrook Club House and grounds are part of the history of Halifax—landmarks the oldest citizen can remember—the property which formed part of the vast Enos Collins estate.” (*The Halifax Mail*). Construction will not be begun on the new site till after the war.



## COLLEGE ORGANIZATIONS

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The following extra-curricular organizations, which aim at developing Christian leadership, are officially recognized by the College:

### RELIGIOUS

- (a) The Saint Mary's College unit of the **CANADIAN STUDENT MISSION CRUSADE SOCIETY**: This society aims at the creation of an active and effective interest in Catholic Foreign Missions. Through its exertions, a considerable sum of money is distributed annually among different Foreign Mission Centres.
- (b) **SODALITY OF THE B.V.M.**: The purpose of the Sodality is to develop Christian character under the protection of the Mother of Our Lord and to cultivate the lay apostolate. The College Sodality endeavours to obtain this two-fold purpose by conducting weekly meetings in the Chapel at which the Office of the Blessed Virgin is recited and instructions are given by the Director, and by organizing sections for the promotion of special activities.
- (c) **THE SAINT JOHN BERCHMAN'S SOCIETY**: Its main 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.

The activities of these societies are directed by their respective officers with the co-operation and guidance of a member of the staff.

### GENERAL

- STUDENT'S COUNCIL**: Its purpose is to promote the best interests of the students by sharing with the Faculty the responsibilities of College government in all matters not strictly academic, and in accordance with the powers conferred by Father Rector.
- TAU-GAMMA-SIGMA SOCIETY**: Is confined to students in Sophomore or higher years. Its activities are chiefly social and recreational.
- THE ENGINEERING SOCIETY**: This society is open to all students in the Engineering Department. Its functions correspond, in general, to those of the Tau-Gamma-Sigma Society.

**THE DELTA-LAMBDA-KAPPA SOCIETY:** Students in the Department of Commerce constitute the Delta-Lambda-Kappa Society. The general interests of the Students in Commerce and all the extra-curricular activities of the Department are controlled by the Executive of the Society.

**THE PHI-PHI-SIGMA SOCIETY:** Is an organization limited to Freshman Students.

**DEBATING SOCIETY:** The membership of this Society is made up of the students in all Departments. The meetings are held weekly and the debates are in the formal and Open Forum style. The activities of the Society include Society Debates, Inter-collegiate Debates, participation in Provincial and other Conventions of the Maritime Colleges and Universities, Radio debates etc., etc.

**FRESHMAN DEBATING SOCIETY:** Membership is open to all Freshmen Its activities are similar to those of the Senior Debating Society.

**SAINT MARY'S ATHLETIC ASSOCIATION:** The Athletic Association regulates the various efforts in the arena of sport during the year. All games are under the direction of the Executive of the Association, prizes are arranged and provided, College Letters and other awards are regulated.

**THE CANADIAN OFFICERS' TRAINING CORPS:** A contingent of the Canadian Officers' Training Corps was established in 1942, All students eighteen years of age and over must belong to this organization. This syllabus involves approximately twenty-five days of local training and fifteen days at Aldershot Camp at the end of the Academic year.

**THE DRAMATIC SOCIETY AND GLEE CLUB:** These organizations present several times a year various programmes under the direction of a member of the Faculty.

**THE GRADUATE SOCIETY:** 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 students of Saint Mary's College are eligible for membership in the Alumni Society. The Annual General Meeting of the Society 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 twice a month by the students.

*The Collegian:* A pictorial review and record of the main events of the scholastic year under the direction and management of the students.

### SCHOLARSHIPS

**K. OF C. SCHOLARSHIPS:** Six Scholarships, covering tuition for four years, have been generously donated by the Knights of Columbus of Halifax.

**ALUMNI SCHOLARSHIP:** Awarded annually by the Alumni Association to a student who has matriculated from a Catholic High School in the Archdiocese of Halifax. Applications should be forwarded to the Secretary of the Alumni Association, c/o St. Mary's College, Halifax, N. S.

**SAJNT MARY'S COLLEGE SCHOLARSHIP:** Offered annually to a student from Saint Patrick's High School who has obtained the highest average in Matriculation class.

There are several other scholarships open to worthy students who intend to study for the Priesthood.



# CURRICULUM

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Saint Mary's College provides:

1. An Arts Course leading to the degree of B.A.
2. An Engineering Course of Three Years.
3. A Science Course leading to the degree of B.Sc.
4. A Course in Commerce leading to the degree of B.Comm.
5. A Social Science Course covering admission requirements.

**ARTS:** The course in Arts is intended to lay the foundations of a broad and liberal education. It stresses, therefore, the literary and cultural branches 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 in the personalities identified with them. The formation of studious and literary habits is regarded as of more importance than the encyclopedic 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.

**ENGINEERING:** The following Universities and Colleges are affiliated with the Nova Scotia Technical College: Acadia University, Dalhousie University, King's College, Memorial University College, Mount Allison University, Saint Francis Xavier University, Saint Mary's College.

By the terms of this arrangement each of the affiliated Colleges is represented on the Board of Governors of the Nova Scotia Technical College and a uniform syllabus covering the first three years of the five-year course in Engineering is followed by each. The Technical College offers professional courses in several departments of Engineering covering the last two years of the course.

Students from the affiliated Colleges are admitted to the Fourth Year Course at the Nova Scotia Technical College without examination, provided they furnish diplomas or certified statements from the Colleges they have attended showing that they have fulfilled all the necessary entrance requirements.

In co-operation with the Nova Scotia Technical College and other Colleges of the Maritime Provinces, St. Mary's conducts in September of each year a three weeks' Surveying Camp at Truro, N. S.

Shopwork with machine tools is required by the Nova Scotia Technical College for junior students in electrical and mechanical engineering. Instruction in this subject is given in a summer course of three weeks in September immediately preceding the opening of the regular college session. It is required that the students in those two branches of engineering attend the shopwork course at the time specified.

Industrial or engineering experience of a practical nature for a total period of three to six months is required by the Nova Scotia Technical College before the granting of a degree. A portion of this experience must consist of activity in jobs associated with the branch of engineering which the student is pursuing in college. Machine shop practice at the Technical College is not considered as equivalent to any portion of the period of practical experience required.

**SCIENCE:** The course in Science is intended largely for Engineering Students who wish to broaden their education and supplement their professional studies by further work in pure Science or literary subjects. Such students may meet the requirements for the degree in one year after the completion of their regular Engineering Course taken at St. Mary's.

**COMMERCE:** The Course in Commerce is intended for students who desire the advantages of higher education but who look forward to commerce as a professional career. The courses are of college standard and many of them correspond identically with the ordinary College courses.

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



Graduates in Arts who, in the third or fourth year of their course in Arts, have taken either Economics or Political Science or Commercial Law, as well as Accountancy 1 and 2, may obtain the degree of Bachelor of Commerce in one year after the completion of the Arts Course by satisfactorily taking the following courses in this Department: Accountancy 3 and 4, Auditing (Junior and Senior), One Course in Economics and One Course in Business English.

All candidates for a degree in Commerce are expected to perfect themselves in Typewriting and in the ordinary technique of business life. Facilities to this end will be afforded them.

Written examinations are held towards the close of each Term and the results are made known to the parents. These examinations determine the student's class standing for the year. Every student who is successful in a subject is credited with First Class Distinction, Second Class Distinction or Pass.

The training of the students in the art of public speaking is carefully attended to and weekly debates form an important part of the College Curriculum.

Due attention is paid to the physical development of the students and all are encouraged and expected to take part, according to their strength, in the outdoor games. Every facility is afforded for playing football, hockey, baseball and tennis.

The College considers the formation and development of character, the religious and moral training of its students, of greater importance than anything else. Facilities are afforded for the frequentation of the Sacraments and the students receive regular instructions in the truths of Faith and the duties of Religion. Principles of good citizenship, the obligations of courtesy and the requirements of social usage are emphasized. It is hoped thus, in co-operation with the all-important factor of home influence, to mould and fashion educated and truly Christian gentlemen.



## INFORMATION AND REGULATIONS

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### RESIDENT STUDENTS

As only a limited number of students can be admitted to the College as resident students, application should be made as early as possible.

Resident students must furnish certificates of health and conduct and satisfactory references.

Resident students may remain at the College during the Christmas Recess at a charge of \$20.00, and during the Easter Recess at a charge of \$10.00.

Parents of resident students may make arrangements to have books and stationery supplied from the College Book Room at the current prices. A deposit for this purpose should be left in Bursar's office.

All charges for resident students are payable in advance and no resident student will be retained in the College longer than the term for which fees have not been paid in full.

Unless otherwise directed by parents, medical attention for resident students will be supplied by the College Physician. Fees for medical attention will be in addition to regular term charges.

## ACADEMIC REGULATIONS

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A candidate must have the approval of the College authorities for any course selected, and having selected this course and obtained approval for it he may not subsequently change it without their sanction.

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

Candidates may, on the presentation of the necessary diplomas or certificates, receive recognition for equivalent work previously done elsewhere.

A course in Religion is an essential requirement in each year.

No candidate 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 attendances in such subject. Candidates failing to make this attendance may also be debarred from writing examinations in such subject.

Every candidate for a degree shall in all respects satisfy and conform to the conditions, rules and regulations from time to time set forth in the College Calendar.

### ADMISSION REQUIREMENTS

To enter the College as an undergraduate a candidate must have received credit for seven matriculation subjects. The seven subjects required for full matriculation are:

#### FOR B.A.

(1) English. (2) Latin. (3) Algebra. (4) Geometry. (5) French or German. (6) and (7) Any two of: History, Physics, Chemistry, Trigonometry, Botany or another foreign language.

### FOR B.Sc.

(1) English. (2) French or German. (3) Algebra. (4) Geometry. (5) Latin. (6) Physics, Chemistry or Botany. (7) One of the following if not previously offered: History, Physics, Chemistry, Botany. Trigonometry or another foreign language.

### FOR ENGINEERING DIPLOMA

Candidates for the diploma in Engineering must matriculate in the following subjects: Latin; English; French; Algebra; Geometry; Chemistry and Physics; History.

Candidates with a Grade XII certificate from Nova Scotia may be credited with the following subjects: Advanced Algebra, Plane Geometry, Plane Trigonometry, English I, French I or German II or Latin II or Spanish I.

The entrance requirements for B.Comm. are the same as those for B.A. or for B.Sc.

Matriculation certificates of the First and Second Division of the Province of New Brunswick and certificates of Junior Matriculation from the Board of Education of Newfoundland admit to the Freshman Class.

Certificates of Junior Matriculation from the Board of Education of Newfoundland admit to the Freshman Class.

The sequence of the Courses in the tables on page 22 is subject to adjustment.



## GENERAL FEES AND CHARGES

The Scholastic Year is divided into two terms:

First Term.....September to January.

Second Term.....January to May.

### GENERAL CHARGES

A general charge of \$10.00 to be paid before the end of September each year covering the following charges for the year:

Examinations.

Library.

Athletics.

Collegian and Journal.

A charge of \$2.00 is made for each Supplemental Examination.

A charge of \$1.00 for all statements under the College seal.

A charge of \$10.00 for Laboratory work in each science.

A charge of \$2.00 each term for the use of typewriters.

A charge of \$5.00 for Graduation, Diploma, etc.

A charge of \$2.00 for Business Training Diploma.

### RESIDENT STUDENTS

#### BOARD

First Term.....\$150.00

Second Term..... 150.00

#### TUITION

First Term.....\$ 37.50

Second Term..... 37.50

#### LAUNDRY

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

### BURSAR'S REGULATIONS

1. All fees are payable in advance—i.e. on first day of each term. Drafts, cheques, money orders, should be made payable at par to "St. Mary's College," and addressed to "The Bursar, St. Mary's College, Windsor St., Halifax, N. S."
2. Students whose term fees have not been paid, will not be permitted to write examinations.

## COURSES OF STUDY

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### B.A.

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
English	English	English	English
Logic	Philosophy	Philosophy	Philosophy
French	French	French	French
Mathematics	History	History	Latin
Latin	Latin	Latin	Sociology
Economics	Economics	Public Service	History
		History of Philosophy	History of Philosophy

### B.Sc. with Engineering

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
English 1	English	Physics 3	Modern History
Mathematics 1	Mathematics 2 and 3	Mathematics 4	Science Subject
Physics 1	Chemistry 1	Graphical Statics	Mathematics 5
Latin 1 or Modern	Descriptive Geometry	Chemistry 2	Strength of Materials
Language 1	Materials of Construction	Mechanics of Machines	English
Logic	Engineering	Surveying 2 (with Summer Surveying Camp)	Philosophy
Engineering	Drawing 2	Geology	Chemistry 3
Drawing 1	Surveying 1		Mechanics
Economics 1	Physics 2		

### B.Comm.

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
English	English	Auditing	Auditing
Logic	Philosophy	English 3 or 4	Modern History
Modern Language	Modern Language	Philosophy	Philosophy
Mathematics	Commercial Law or Political Science	Political Science or Commercial Law	Sociology
Economics	Economics	Economics	Economics
Accounting	Accounting	Accounting	Accounting

### Diploma in Engineering

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

# COURSES OF INSTRUCTION

## ACCOUNTING

1

**FUNDAMENTAL ACCOUNTING:** The Journal and Journalizing; The Ledger, Posting, Trial Balance; The Work Sheet and Statements; Cash, Purchases and Sales Journals; Columnar Journals; Notes and Drafts; Deferred Charges; Partnerships.  
*Texts:* Twentieth Century Accounting-Book I and Phinney's Principles.

2

**GENERAL ACCOUNTING:** Controlling Accounts; Voucher System; Bad Debts; Accruals; Corporation Reports; Manufacturing Reports; Land and Buildings; Installment, Departmental, Consignment Sales; Governmental Accounting.  
*Texts:* Twentieth Century Accounting-Book II and Phinney's Principles.

3

**INTERMEDIATE ACCOUNTING:** Complete Analysis of the Balance Sheet; Valuation of Fixed and Current Assets and Liabilities; Problems.  
*Texts:* Ferguson and Crocombe, Limited Companies and Their Accounts. Intermediate Accounting Problems, Rittenhouse and Percy.

4

**ADVANCED ACCOUNTING:** Corporation Accounting; Secret Reserves; Bond Issues; Treasury Stock; Sinking Funds; Problems.  
*Texts:* Ferguson and Crocombe, Limited Companies and Their Accounts. (Complete). Advanced Accounting Problems, Rittenhouse and Percy.

5

**COST ACCOUNTING:** Elements of Cost Accounting; Connection of Cost Records with General Accounts; Leakage in factories; Branch Accounts; Goods invoiced at Cost, Intermediate and Selling Price; Chain Stores; Problems.  
*Texts:* Cost Accounting-Lawrence. (Prentice-Hall). Problems in Cost Accounting, Greer and Wilcox.



## AUDITING

1

**GENERAL PRINCIPLES OF AUDITING:** Duties and Responsibilities of Auditors; Analysis of Accounts; Auditing Methods; Problems.  
*Texts:* Smails on Auditing; Kohler & Pettengill on Auditing. (McGaw-Hill). Income War Tax of Canada.

2

**ADVANCED AUDITING:** Types of Audits, their advantages and limitations; Examination of Audit Reports. Problems.  
*Texts:* Smails on Auditing; Problems in Auditing, Hanson. Nova Scotia Act; Public Utilities Act.

## CHEMISTRY

1

**General Inorganic Chemistry** As in Smith's College Chemistry revised by Kendall.

Lectures and Recitations: Three hours a week.

Laboratory Work: Two hours a week.

*Text Book:* A Laboratory Outline of Smith's College Chemistry.

2

**Qualitative Analysis:** Detection of not more than four acidic or three basic radicals in mixtures of salts.

Lectures: One hour a week.

Laboratory Work: Four hours a week.

*Text:* Noyes, Qualitative Analysis.

3

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

Lectures: Three hours a week.

*Texts:* Getman-Daniels, Outlines of Theoretical Chemistry (J. Wiley & Sons); Creighton and Koehler, Electro-Chemistry, Vol. I (J. Wiley & Sons).

4

**Organic Chemistry:** Study of the chief Aliphatic and Aromatic Compounds, in particular of those of greater importance in industry or medicine.

Lectures: Three hours a week.

Laboratory Work: Three hours a week.

*Text:* Perkin and Kipping, Organic Chemistry (Lippincott Co.).

## COMMERCIAL LAW

**A GENERAL STUDY OF 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:* Falconbridge and Smith, Manual of Canadian Business Law

Two hours each week.

## DESCRIPTIVE GEOMETRY

Problems on Points, Lines and Planes; Single Curved Surfaces; Warped Surfaces; Surfaces of Revolution; Development of Surfaces; Intersections; Practical Applications.

*Texts:* Applied Descriptive Geometry, Warner.

Four hours a week.

## DRAUGHTING

### 1

The work of this course has been arranged so 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:* Engineering Drawing, French. Lessons in Lettering. French and Turnbull. American Standard and Drafting Room Practice.

### 2

Projections, Working Drawings, Pictorial Representation, Development and Intersection of Surfaces, Topography and Preparation of Blue Prints from Working Drawings of Actual Machinery.

*Text:* Engineering Drawing, French.

Four hours a week.

# ECONOMICS

## 1

**GENERAL PRINCIPLES OF ECONOMICS:** Production and Distribution; Industrial Organization; Money; Credit; Banking; Free Trade and Protective Tariffs; Reciprocity; Socialism and the Single Tax; Economic Problems in connection with Wages, Profits, Taxation and Insurance.

*Texts:* Principles of Economics, Bye; Outlines of Economics, Ely.

Three hours each week.

## 2

**INTERNATIONAL TRADE:** Trade under the Great Companies; Development of Modern Methods; The Classical Theory; The Equilibrium in Exchange; Balance of Payments; A View of World Trade; Raw Materials; International Commercial Policies.

*Texts:* Principles of International Trade, Sinclair; Griffin. Foreign Trade; International Trade, Taussig.

Two hours each week.

## 3

**CANADIAN PROBLEMS:** National and Political Life; Economic Developments; Population and its Problems; The Growth of Industry and Commerce; Agriculture in the Economy of Canada; Cultural Life; Imperial and External Relations.

*Texts:* Canada, Prof. Brady; The Canada Year Book.

Three hours each week.

## 4

**INVESTMENTS AND BANKING:** Investment Principles and Analysis; Railroads; Public Utilities; Foreign Investments; Real Estate; Financial Investments.

Loans and Discounts; Rates of Exchange; Central Banks; Comparison of British, Canadian and American Systems; International Banking Relations.

*Texts:* Investments, Jordan; Principles of Investments, Badger and Guthmann. Banking, Bradford; Kilbourne, Principles of Banking.

Two hours each week.



## 5

**MATHEMATICS OF FINANCE AND STATISTICS:** Compound Interest; Annuities; Bond Valuation; Amortization; Sinking Funds. Index Numbers; Probability; Life Insurance.

*Texts:* Mathematics of Accounting, Curtis and Cooper. Statistical Methods, Philips.

Three hours each week.

## 6

**BUSINESS ORGANIZATION AND CORPORATION FINANCE:** Classification of Bus. Organizations; Single Proprietorships and Partnerships; Public and Private Corporations; Types of Management; The Corporation and its Financial Structure; Common Stock; Stocks with Preferences; Bonds; The Organization Methods; Marketing of Securities; Importance of Accounting.

*Texts:* Stockder, Business Ownership Organization; Haney on Corporations; Corporation Finance, Arthur Dewing.

## 7

**LABOUR PROBLEMS:** Study of Social and Economic Organization in Modern Life; Employment Problems; Legislative Action in correcting Economic Abuses in Europe and Canada; Special Study of recent legislation in the United States; Organized Labour and its Programme; Plans for the improvement of the condition of the Labouring Class; Papal Encyclicals on the Labour Question; Profit-sharing and other remedial methods.

*Texts:* Papal Encyclicals on Labour and the Condition of the Working Class; The Economics of Labor, Millis and Montgomery. Labor Economics and Labor Problems, Dale Yoder.

Two hours each week.

## 8

**AMERICAN ECONOMIC HISTORY:** Social and Economic Aspects of Colonization; The Westward Movement before the Revolution; Economic Causes of the Revolution; Finance and Tariffs; Economic Causes of the Civil War; Financial History since 1860; Economic Collapse of 1929.

*Texts:* American Economic History, Harold Underwood Faulkner; American History, Muzzey.

Two hours each week.

## ENGLISH

## 1

- (a) A Survey of English Literature to the death of Chaucer with special reference to *Beowulf*, Caedmon, Cynewulf, Bede, Alfred, *Malory and the Medieval Romance*, Wyclif, Gower, Langland, *Sir Gawain and the Green Knight*, Chaucer.
- (b) *Shakespeare*: Intensive study of *Hamlet* with written reports on *Richard II* and *Richard III*.

**Text:** *The Literature of England*, Vol. I, pp. 1-283, Woods, Watt, Anderson  
*Hamlet* Verity Ed.  
 One semester, three hours a week.

## 2

- (a) *Renaissance and Elizabethan Literature*: More, Wyatt, Surrey, Sackville, Spenser, Sidney, Lyly, Lodge, Raleigh, Southwell, Daniel, Thomas Campion, North, Hakluyt, Holinshed.
- (b) *English Drama* to the death of Shakespeare.
- (c) *Shakespeare*: Intensive study of *Macbeth* with written reports on *Henry IV*, Parts I and II.

**Texts:** *The Literature of England*, Vol. I, pp. 284-563, Woods, Watt, Anderson  
*Macbeth* Verity Ed.  
 One semester, three hours a week.

## 3

**The Short Story:** A study of Fiction as exemplified in the modern Short Story forms.

**Text:** Hart, Perry, Moffett: *Representative Short Stories*.  
 One semester, one hour a week.

## 4

**Composition:** Creative writing in both prose and verse to be assigned each week in connection with precepts examined in the classroom. Narrative, descriptive, expository, argumentative exercises. Book reports on recommended readings.

**Text:** Writing Well, Greenough, Hersey, Bruce.

Two semesters, one hour a week.

## 5

- (a) *Seventeenth Century Prose:* The development of English prose style as shown in the works of Bacon, Hooker, Cowley, Milton, Taylor, Burton, Browne, Bunyan, Pepys, Evelyn, Dryden.
- (b) *Poetry of the Age of Milton:* The non-dramatic poetry of Milton and his contemporaries, the Metaphysical School, the Cavaliers, and others, from Donne to Vaughan.
- (c) *Composition:* Critical and imitative essays in connection with the authors studied.
- (d) *Shakespeare:* Intensive study of *Othello*, with written reports on *Anthony and Cleopatra* and *Coriolanus*.

**Texts:** *The Literature of England*, Vol. I, pp. 565-690, Woods, Watt, Anderson.  
*Othello* New Hudson Ed.

One semester, three hours a week.

## 6

- (a) *Poetry of the Age of Dryden:* A study of the lyric and satiric forms of Cotton, Waller, Traherne, Sedley, Sackville, Dillon, Oldham, Butler, Wilmot, and Dryden.
- (b) *The Age of Pope:* The Neo-Classical era in England, with analyses of the prose of Addison, Steele, Swift, Defoe, and of the poetry of Pope and Gay.



- (c) *The Age of Johnson*: The classicism of Johnson, Boswell, Goldsmith, Sheridan, Gibbon, Chesterfield, Burke; the romanticism of Thomson, Young, Gray, Chatterton, Cowper, Crabbe, and Burns. William Blake.
- (d) *Composition*: Critical and imitative essays in connection with the authors studied.
- (e) *Shakespeare*: Intensive study of *King Lear*, with written reports on *Cymbeline* and *The Winter's Tale*.

*Texts*: The Literature of England, Vol. I, pp. 691-1124, Woods, Watt, Anderson. *King Lear* Verity Ed.

One semester, three hours a week.

7

- (a) *The Age of Romanticism*: A study of the work of the Lake Poets, of Byron, Shelley and Keats; in prose, of Lamb, Hazlitt, Hunt, De Quincey, Landor, Lockhart, Jeffrey, Sydney Smith.
- (b) *Composition*: Critical and imitative essays in connection with the authors studied.
- (c) *Shakespeare*: Intensive study of *The Tempest*, with written reports on *A Midsummer Night's Dream* and *Twelfth Night*.

*Texts*: The Literature of England, Vol. II, pp. 1-413, Woods, Watt, Anderson. *The Tempest* Verity Ed.

One semester, three hours a week.

8

- (a) *The Victorian Era*: Later Nineteenth Century literature studied in relations with the thought and social trends of the period; the prose of Macaulay, Newman, Ruskin, Carlyle, Arnold, Stevenson; the poetry of Tennyson, the Brownings, Arnold, the Pre-Raphaelites, Hopkins, Patmore.
- (b) *Composition*: Critical and imitative essays in connection with the authors studied.

- (c) *Shakespeare*: Intensive study of *As You Like It*, with written reports on *Much Ado About Nothing* and *The Merry Wives*.

*Texts*: The Literature of England, Vol. II, pp. 415-903, Woods, Watt, Anderson  
*As You Like It* Verity Ed.

One semester, three hours a week.

9

*Nineteenth Century Novelists*: Scott, Jane Austen, Dickens, Thackeray, the Brontes, George Eliot, Trollope, Meredith, Hardy, Stevenson, Bennett, Henry James. Discussion and readings.

Two semesters, one hour a week.

10

*The Theory of Poetry*: The basic elements of poetry: experience, feeling, imagery, rhythm, language. Technical elements: versification, stanza forms, melody. Illustrative reading and training in critical appreciation.

One semester, three hours a week.

11

*Shakespeare*: Study and discussion of the plays of Shakespeare and the literary canons which they exemplify. References to and evaluations of representative Shakespearean critics.

One semester, three hours a week

12

*Twentieth Century Literature*: Modern literary trends in drama, poetry, fiction, and the essay with special emphasis on the Catholic Revival.

*Text*: The Literature of England, Vol. II\* pp. 905-1062, Woods, Watt, Anderson.

One semester, four hours a week.

## FRENCH

### 1

**Pre-requisite** Matriculation French Course.

A thorough review of the grammar supplemented by a course of translation from French into English and English into French, involving the harder syntactical constructions.

**Drills** in Dictation and Conversation.

**Translations** from modern authors into English.

Three hours a week for two semesters.

*Texts:* The New Chardenal. Haxo, Intermediate French Reader.  
Four hours a week for two semesters.

### 2

**Grammar Review** emphasising verb forms and idiomatic expressions. A part of each period will be devoted to French Conversation based upon Part I of Mann's Conversational French.

Debates will be conducted in this course as an extension of French Conversation. This will give the student the ability to address French audiences on subjects within the reach of Junior College groups.

A study of two selected classics, one for each semester.

**Readings and conversations** on material in "Figaro."

Three hours a week for two semesters.

### 3

A survey of French Literature including main trends, principal writers and a consideration of masterpieces.

French Conversation will be carried on for two semesters based upon Part II of Mann, Conversational French.

Three hours a week for two semesters.

### 4

A general survey of French Art, including Painting, Sculpture, Architecture and Music. The purpose of this survey is to acquaint the student with the extent and the characteristics of French Culture.

A Review of the entire Course of Conversation French: Mann.

Reading and study of: Vingtième Siècle—An Anthology: Michaud.

Study and Book Reports on at least six texts from Library Collection.

Three hours a week for two semesters.



An elective Course.

Pre-requisite French I and II.

A theoretical and practical study of French Sounds, their production, linking, pitch: practical demonstration of accurate French sounds, French articulation, and ear training.

French Conversation, the building up of vocabulary.

Retranslation into English, material based upon French selections and stories in the text.

A practical grasp of the use of the language for practical purposes.

*Text:* Handbook of Everyday French, Brown.

Three hours a week for two semesters.

## GEOLOGY

This course lays special emphasis on the application of geologic principles to 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 rocks.

*Text:*—Geology, Emmons, Thiel, Stauffer, Allison.

Four hours a week

## 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:* Graphical Statics, Fairman and Cutshall.

Three hours a week.

# HISTORY

## 1

### ANCIENT

**Historic Nations of the Orient.** Egyptian, Sumerian, Babylonian, and Assyrian Kingdoms. The Hebrews. The Medes and Persians. Mycenæ.

**Greece.** Early settlement. Forms of Government. Colonial settlements. History of Sparta and Athens. Persian War. Athenian Empire. Age of Pericles. Peloponnesian War. Rise of Thebes. Philip of Macedon. Alexander. Hellenistic Age. Contacts with Rome. Greek contribution to culture and civilization.

**Rome.** Early legends. Wars with Sabines and Latins. Gauls in Italy. Samnite and Pyrrhic Wars. The great struggle with Carthage. Wars with Philip of Macedon and Antiochus. Perseus, The Gracchi. Jugurthine War. Marius, Cinna, Sulla. Mithridatic War. Pompey, Caesar Augustus. The Empire. The decline of Rome.

**TEXTS:** Hayes and Moon, *Ancient History*. For special sections—Reeve's *Bible History*; Vlachos, *Hellas and Hellenism*; Shuckburgh, *History of Rome*; Davis, *Readings in Ancient History*; Plutarch's *Lives*.

Two hours a week.

## 2

### MEDIEVAL HISTORY

*The History of Western Europe from the beginning of the Christian Era to the Sixteenth Century.* Conflict between Paganism and Christianity. Constantine. The Invasion of the Barbarians. Evangelization of Europe. The Empire of Charlemagne and its disruption. Germany and the Conflicts between Empire and Papacy. Norman conquests of England and Sicily. History of these countries. Invasion of Ireland. France under the Capetians. The Hundred Years War, Feudalism, Chivalry,

The Crusades. The Universities. Papacy at Avignon and Great Schism. Renaissance. Portuguese Exploration and Voyages of Columbus.

TEXT: For General Study—Weber, Christian Era, Vol. I.  
For Reference—Pastor, Lives of the Popes, Vols. I and II; Walsh, The Thirteenth the Greatest of Centuries; Walsh, The Century of Columbus; Belloc, The Crusades (Bruce Publishing Co.).  
Two hours a week.

3

### THE RENAISSANCE AND THE REFORMATION

*The Renaissance:* Background of the Renaissance in Italy. Petrarch and Dante. History of the Literature and Culture of the chief European nations in the fourteenth and fifteenth centuries. The great figures in the Renaissance and their achievements. The Humanists.

*The Reformation:* Review of the religious conditions in Europe in the fifteenth century. Study of Luther. The course of the Reformation in the different countries of Europe during the sixteenth century. The Counter-Reformation.

TEXT: A Political and Cultural History of Modern Europe, Vol. I, Hayes.

For special reference—Cambridge Modern History, Vols. I, V; Pastor, Lives of the Popes, Vols. I and II; Janssen, History of the German People (Herder, St. Louis, Mo.).

Two hours a week.

4

### MODERN HISTORY

*Period 1500-1815.* Empire of Charles V. The Reformation. England and France in the Sixteenth Century. The Thirty Years War. Richelieu. Age of Louis XIV, Literary Achievements, Wars, Social Conditions. Conflict of English and French Interests in America and India. Seven Years War. Development of Prussia. France immediately before the Revolution. The



Revolution in Action. The Leaders. Fall of Robespierre.  
Emergence of Napoleon. The Napoleonic Era.

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

Two hours a week.

5

*Period 1815 to Present Day:* Congress of Vienna. The Age of Met-  
ternich. France from 1815 to the accession of Napoleon III.  
Industrial Revolution. The Victorian Age in England.  
Bismarck and his Policies. Franco-Prussian War. Germany  
under William II. Spain and Italy in the Nineteenth Century.  
The Partition of Africa. England from 1880 to 1914. The  
Great War. Post-War Europe. Europe of to-day.

**TEXT:** Hayes, Political and Cultural History of Europe, Vol. II.  
*Text:* Properties of Materials of Engineering, Murphy.

*For special periods:* Belloc, Robespierre, Marie Antoinette; Holt and  
Chilton, European History 1862-1914; Bourne, The Revolu-  
tionary Period in Europe; Ludwig, Life of Bismarck; Cambridge  
Modern History, The French Revolution and Vol. XII, the  
Latest Age.

6

A History of intellectual and scientific culture in the great civilizations  
of the East and West. Astronomy and Medicine among the  
Ancients. Greek Thought and Philosophy. The history of  
Mathematics. Intellectual Activity in the Middle Ages.  
Alchemy and Chemistry. Modern Science.

Two hours a week.

## LATIN

This Course is divided into three sections: Latin Translation, Latin Composition and History of Latin Literature and Culture.

### 1

*Prescribed Authors:* Cicero, *In Catilinam* I, IV; Virgil, *Aeneid*, Book II; Horace, *Ars Poetica*; Livy, Book XXI.

*Prose Composition* based on prescribed authors and on Bradley Arnold, Exercises 1 to 34.

*Roman Literature:* Wilkins, *Primer of Roman Literature and Antiquities*.  
Four hours a week.

### 2

*Prescribed Authors:* Cicero, *Pro Archia*, *Pro Lege Manilia*; Horace, *Odes and Epodes*. Sallust, *Bellum*.

*Prose Composition* based on prescribed authors and on Bradley Arnold, Exercises 35 to 67.

*Survey of Roman Literature* from its Origin to its Golden Age inclusively.

*Roman History:* Tutorial *History of Rome*, Allcroft and Mason.  
Four hours a week.

### 3

*Prescribed Authors:* Cicero, *De Senectute*; Horace, *Satires and Epistles*; Tacitus, *Agricola*.

*Prose Composition* based on prescribed Authors.

*Literature:* Latin Literature, Mackail.

*Roman History:* Tutorial *History of Rome*, Allcroft and Mason.  
Four hours a week.

### 4

*Prescribed Authors:* Selections from the letters of Cicero, Pliny, Seneca, Fronto. Latin Prose and Poetry (Harrington and Scott) Selections from Latin Poets (Harvard University Press): Ennius, Catullus, Tibullus, Ovid, Phaedrus, Seneca, Martial. Tacitus, *Annals*, I, II.

*Prose Composition* based on prescribed Authors.

Lectures on Roman Private Life and Roman Government.

Four hours a week.

### 5

*Ecclesiastical Latin:* Prescribed Authors: Kuhnmuensch, Early Christian Latin Poets. Saint Thomas Aquinas, *Contra Gentiles*.

One hour a week.

## MATERIALS OF CONSTRUCTION

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

**Text:** Properties of Materials of Engineering, Murphy.

One hour a week.

## MATHEMATICS

### 1

**Algebra:** Graphs, Theory of Quadratic Equations, Maximum and Minimum Values of Simple Functions, Ratio, Proportion, Variation, Progressions, Simple Series, Permutations and Combinations, Binomial Theorem, Annuities, Determinants.

**Text:** Crawford's Senior Algebra.

**Geometry:** Plane and Solid Geometry.

**Text:** Hall and Stevens: School Geometry, Parts V. and VI.

**Trigonometry:** Plane Trigonometry including Identities, Equations, Establishment of the Ordinary Formulae, Logarithms, Solution of Triangles, Heights and Distances.

**Text:** Hall and Knight: Elementary Trigonometry.

Murray: Spherical Trigonometry.

Five hours a week.

### 2

**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 by Crawley and Evans.

Three hours a week. First term.

### 3

**Differential Calculus:** Study of 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 Intersection of Curves. Problems on Rates, Maxima and Minima.

**Text:** Differential and Integral Calculus by Love.

Three hours a week. Second term.



## 4

*Integral Calculus:* Standard Methods of Integration. Use of Integration Formulae. Use of Integral Calculus in determining Areas, Volumes, Centroids, Moments of Inertia, Lengths of Curves and in the solution of other problems occurring in Mechanics and General Physics.

*Spherical Trigonometry:* Review of Solid and Spherical Geometry. Relations between the sides and angles of Spherical triangles. Solution of Spherical triangles. Practical applications.

*Texts:* Differential and Integral Calculus: Love. Spherical Trigonometry: Murray.  
Three hours a week.

## 5

*Differential Equations:* A more advanced study of Differential Equations and their applications.

*General Mathematics:* Complex Quantities and their Graphical Representation, De Moivre's Theorem, Hyperbolic Functions, Expansion of Functions, Fourier's Series, Probability.

*Texts:* Murray, Differential Equations;  
Mann, Practical Mathematics for Advanced Technical Students.  
Sokolnikoff: Higher Mathematics for Engineers and Physicists.  
Three hours a week.

## MECHANICS

## 1

Co-planar force systems, graphical and analytical 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 and Momentum.

*Texts:* Applied Mechanics, Poorman.

Three hours a week.

## 2

Motions and Velocities. Instantaneous Center. Kinematic Chain Velocity Diagrams. Cams, Gearing, Belting, Intermittent Motions.

*Text:* Mechanism, Keown and Faires.

Three hours a week.

# PHILOSOPHY

## 1

- (a) *Logic*: comprises the customary treatment of Formal Logic with added emphasis on Inductive reasoning.

Three hours a week for one semester.

*Books recommended*: Turner, *Lessons in Logic*; Clarke, *Logic*; Crumley, *Logic, Deductive and Inductive*; Maritain, *Introduction to Philosophy*.

- (b) *Epistemology*: This course introduces the student the meaning to the principal problems of knowledge; truth and error; certitude; criterion of certitude.

Three hours a week for one semester.

*Texts*: Bittle, *Reality and the Mind*.

*Books recommended*: Cunningham, *Notes on Epistemology*; Mahoney, *Epistemology*.

## 2

- (a) *Fundamental Psychology*: Beginning with an explanation of life considered in general, the first part of this course is devoted to the study of questions concerning the existence in living beings of a vital principle; the divisions of life into vegetative, sensuous and rational; the doctrines of evolution with added emphasis on the Darwinian Theory.

Three hours a week for one semester.

*Text*: Fordham University Notes.

*Books recommended*: Pyne, *The Mind*; Hill, *Psychology*; Maher, *Psychology*.

- (b) *Rational Psychology*: A continuation of Philosophy 2a embracing the study of the phenomena of rational life; the origin of intellectual ideas; judgment and reasoning; attention and apperception; rational appetency, free will and determinism; the origin, nature and destiny of the human soul; the union of soul and body.

Three hours a week for one semester.

*Text*: Anable, *Philosophical Psychology*.

*Books recommended*: same as for Fundamental Psychology.

- (a) *Ontology*: In this course are treated the notions of being, act and potency, essence and existence, substance and accident, relation and cause.

*Texts.* McCormick, General Metaphysics. Bittle, The Domain of Being.

*Books recommended:* Rickaby, General Metaphysics.

- (b) *Cosmology*: Beginning with the question of the origin of the material universe, this course deals with the laws that govern physical nature; the theories advanced to explain the constitution of inorganic bodies; the nature and properties of inorganic bodies.

*Texts:* McCormick, General Metaphysics. Fillion.

*Book recommended:* McWilliams, Cosmology.

- (c) *Theodicy*: This course deals with the existence of God, His nature and attributes; creation and Providence; Theism and Atheism.

*Texts:* McCormick, General Metaphysics. Fillion.

*Books recommended:* Joyce, Natural Theology; Boedder, Natural Theology; Mercier.

Philosophy 3 extends over two semesters, three hours a week.

- (a) *General Ethics*: In this course are treated the subjects belonging to general theory; the nature of the moral act, the distinction between moral good and moral evil, moral habits, natural and positive moral law, conscience, rights and duties.

*Text:* Leibell, Readings in Ethics.

*Books recommended:* Rickaby, Moral Philosophy; Cox, Liberty: It's Use and Abuses Cronin, Science of Ethics; Sullivan, General Ethics; Hill, General and Special Ethic Gilson, Moral Values.

Three hours a week for one semester.

- (b) *Applied Ethics*: The application of the general principles of Ethics to particular, individual and social rights and obligations the right to property, life, honour; the rights and obligations of domestic Society; marriage and divorce; civil society, its nature and forms; the rights of civil property; Church and State; the Ethics of International Relations; peace and war.

*Text:* Leibell, Readings in Ethics.

*Books recommended:* Cox, Liberty: It's Use and Abuse; Hill, Special Ethics; Cronin, Science of Ethics; Glenn, Ethics; Sullivan, Special Ethics.



- History of Philosophy:** (a) **Ancient:** In Greek Philosophy attention is directed primarily to the teachings of Socrates, Plato and Aristotle and to the systems of Stoicism and Epicureanism. Plotinus is taken as representative of the Alexandrian Movement, and Saint Augustine is studied as the most conspicuous example of the early Christian philosopher.
- (b) **Mediaeval:** In the study of Mediaeval Philosophy attention is centred on the origin and development of Scholastic Philosophy and on the system of Saint Thomas as the most complete synthesis of Mediaeval thought.
- (c) **Modern:** Descartes, Locke, Hume, Kant, Hegel, Comte and Spencer are taken for special study. Among present day tendencies the revival of Scholasticism and the trend towards Realism are particularly noticed.

**Text:** Turner, History of Philosophy.

**Books recommended:** Glenn, History of Philosophy; Mercier, Origins of Contemporary Psychology; De Wulf, History of Mediaeval Philosophy.

# PHYSICS

1

**General Physics:** A general course including Mechanics, Sound, Light and Heat, Magnetism and Electricity.

Lectures and Recitations—Three hours a week.

Laboratory Work—Two hours a week.

*Text:* Stewart, College Physics.

2

**Mechanics, Sound, Light and Heat:** A more advanced course.

Lectures and Recitations—Three hours a week.

Laboratory Work—Two hours a week.

*Text:* Duncan and Starling, Sound, Light and Heat.

*Reference Books:* Randall and Gillon, Heat; Sabine, Acoustics; Hardy and Perrin, Principles of Optics.

3

**Magnetism and Electricity:** Advanced Course.

Lectures and Recitations—Three hours a week.

Laboratory Work—Three hours a week.

*Texts:* Timbie, Elements of Electricity; Lyon, Problems in Electrical Engineering.

4

**Mechanics and Dynamics:** Study of co-planar force systems; graphical and analytical methods applied to the determination of stresses and strains 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 and Momentum.

*Texts:* Poorman, Applied Mechanics; Brown, Engineering Mechanics. See also Engineering Course.

Three hours a week.

# POLITICAL SCIENCE

**Study of Governments:** Development of English Political Institutions. Working of Modern Institutions of English Government. Constitutional Development of British Commonwealth. Problems of Commonwealth Relations of various Dominions with special emphasis on Canada.

Three hours a week.

## RELIGION

### APOLOGETICS

1

Religion in general. The Church of Christ.

2

Nature and obligation of faith. Nature and origin of man.

3

Christ and redemption.

4

Supernatural life. The Sacraments.

Two hours a week.

### SOCIOLOGY

1

*Fundamentals of Sociology*: Christian principles of society. The structure of society. The major problems of society. Economic world problems.

*Text*: Murray, *Introductory Sociology* (Crofts, N. Y.).

Two hours a week.

2

*Social and Economic Reconstruction*: Application of the principles of the Encyclical "Quadragesimo Anno" to the social and economic problems of the day.

*Text*: Dempsey, *Reorganization of Social Economy* (Bruce Publishing Co.).

Two hours a week.

3

*Applied Sociology*: Principles of Christian Sociology in action. Social Case Work. Catholic Social Organizations. The Co-operative Movement. Unemployment. National Insurance. Juvenile Delinquents. Benevolent Organizations.

*Text*: O'Grady, *An Introduction to Social Work* (The Century Co.).

Two hours a week.



## 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:* Poorman, Strength of Materials; Breneman, Strength of Materials.

Three hours a week. First term

## SURVEYING

### 1

A preliminary course dealing with the theory, adjustment, use and care of surveying instruments. Fundamental surveying methods.

Three hours a week.

Measurements of lines, angles and differences in elevation. Field practice in pacing, taping, surveying of areas, differential leveling.

*Text:* Surveying Vol. I. Breed and Hosmer.

Three hours a week.

### 2

The field work will be carried out during the month of September. The course will consist of compass and transit surveying. Farm survey. Leveling, Profile, Grading. Triangulation. Topographical surveying with transit and stadia.

During the remainder of the year the student makes computations, scale drawings, topographical, profile and contour maps from the notes taken in the field. Lectures are given in city, topographical and subterranean surveying. Determination of azimuth, time and latitude. Simple curves.

*Text:* Surveying Vol. I. Breed and Hosmer.

Equivalent to four hours a week.

## SUMMER SURVEYING CAMP

In association with the other affiliated colleges, a three weeks surveying camp for all students who have completed the second year of their course is held at Truro, N. S., in the month of September. Attendance at this course is a prerequisite for Surveying 2. Students in Civil and Mining Engineering are required to attend a second three weeks surveying camp at the conclusion of the third year of their course.

Students attending these camps are required to pay a fee of twenty-five dollars upon entering. They should bring with them drafting instruments, clothing suitable for field work, and two pairs of blankets.

Notification of intention to attend the camps should be sent in time to reach the Secretary of the Nova Scotia Technical College on or before August 15th.

## 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'* Bailey, Principles of Heat Engineering; Allen and Bursley, Heat Engines.

Three hours a week. Second term.

# Saint Mary's College Convocation

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## PROGRAMME

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May the Twenty-second

Nineteen Hundred and Forty-four

ORGAN . . . . . Processional

SALUTATORY . . . . . John Lynch, B.Sc.

VALEDICTORY . . . . . Robert Miller, B.Comm

PRESENTATION OF MEDALS

REPORT OF THE PRESIDENT

CONFERRING OF DEGREES

ADDRESS TO THE GRADUATES . . . . . Hon. Harold Connolly

GOD SAVE THE KING

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ORGAN . . . . . Recessional

DR. CYRIL O'BRIEN AT THE ORGAN



## MEDALLISTS

### ARTS

Highest Aggregate in Senior Year - - MICHAEL EDGAR  
Gold Medal donated by His Grace the Archbishop.

Highest Aggregate in Junior Year - - FRANCIS LABA  
Gold Medal donated by the Right Rev. M. J. Cole, D.P.

Highest Aggregate in Sophomore Year - JAMES HANRAHAN  
Gold Medal donated by the Rev. C. F. Curran, D.D.

### ENGINEERING

Highest Aggregate in Senior Year - - MURRAY BLANCHARD  
Gold Medal donated by Hon. Justice W. F. Carroll.

Highest Aggregate in Junior Year - - CHARLES MILLER  
Gold Medal donated by Major M. H. McManus.

Highest Aggregate in Freshman Year - FRANCIS MURPHY  
Gold Medal donated by the Rev. John Quinan, P.P.

### COMMERCE

Highest Aggregate in Senior Year - - ROBERT MILLER  
Gold Medal donated by Mrs. W. T. Beazley.

Highest Aggregate in Junior Year - - THOMAS MACDONALD  
Gold Medal donated by the Rev. John E. Burns, Ph.D.

Highest Aggregate in Sophomore Year - PAUL CORMIER  
Gold Medal donated by the Rev. L. L. Graham, P.P.

### SCIENCE

Highest Aggregate in Fourth Year - JOHN LYNCH  
Gold Medal donated by the Ladies' Auxiliary of Saint Mary's College.

## SPECIAL DISTINCTIONS

- Religion in Senior Year . . . . . **MICHAEL MERRIGAN**  
Prize donated by the Right Rev. A. R. Donahoe, D. P.
- Philosophy in Senior Year . . . . . **WILLIAM DUGGAN**  
Prize donated by the Rev. C. J. Martin, P.P.
- English in Senior Year . . . . . **EDMUND BOYD**  
Gold Medal donated by the Right Rev. Wm. Burns, V.G.
- Latin in Senior Year . . . . . **ROBERT LAUDER**  
Prize donated by the Fathers of the Holy Heart Seminary.
- Mathematics in Senior Engineering . . . . **GERALD MOFFATT, B.A.**  
Prize donated by the Ladies' Auxiliary of Saint Mary's College.
- Mathematics in Senior Science . . . . . **JOHN LYNCH**  
Prize donated by Mr. W. A. Affleck.
- Economics . . . . . **BRIAN KEENE**  
Prize donated by Dr. Cyril O'Brien, M.A., D.Paed.
- Sociology . . . . . **WILLIAM DUGGAN**  
Prize donated by Rev. Father Rector.
- French in Senior Year . . . . . **JOSEPH FULTZ**  
Bronze Medal donated by L'Alliance française.
- Accountancy:  
Highest Four Year Aggregate . . . . . **DONALD CAMPBELL**  
Prize donated by the Hon. John A. Walker, K.C.
- Draughting and Surveying . . . . . **DELIBLE INGLIS**  
Prize donated by Sir Joseph Chisholm.
- English in Commerce . . . . . **ROBERT MILLER**  
Gold Medal donated by Messrs. Henry Birks & Sons.
- The Rector's Medal for Dramatics . . . . **EDMUND BOYD**
- The William A. Haliburton Memorial  
Medal . . . . . **JAMES HANRAHAN**  
Gold Medal donated by Mr. A. J. Haliburton in memory of P.O. W. A. Haliburton, R.C.A.F. Awarded for Public Speaking.
- The Senator Dennis Award . . . . . **RONALD O'KEEFE**  
Gold Medal donated by Senator Dennis to the student who has made the most improvement during the current year.
- The Edmund Ignatius Rice Award . . . . **ROY POWER**  
Gold Medal donated by the Alumni Society to the student who has shown the most outstanding qualities of leadership during the current year. The Medal is given to commemorate the period of twenty-seven years during which Saint Mary's College was under the direction of the Irish Christian Brothers.
- The F. R. Faulkner Memorial Award . . . . **ARTHUR LEAHEY**  
Gold Medal donated by certain members of the Class of the late F. R. Faulkner "to a student who is prominent in College activities, impregnated with devotion to his Alma Mater, and the sincere friend of all men and things Santamarian."

# GRADUATES, 1944

## BACHELORS OF ARTS

- |                             |                            |
|-----------------------------|----------------------------|
| ✓ BOYD, EDMUND PATRICK      | ✓ LAUDER, ROBERT ENWRIGHT  |
| ✓ DUGGAN, WILLIAM NORRIS    | LEBLANC, THOMAS JOSEPH     |
| ✓ EDGAR, MICHAEL FITZGERALD | ✓ MERRIGAN, MICHAEL VERNON |
| ✓ FULTZ, JOSEPH HOWARD      | ✓ PURCELL, THOMAS JAMES    |

## BACHELORS OF SCIENCE

- |                         |                             |
|-------------------------|-----------------------------|
| ✓ BECK, RAYMOND VINCENT | MACDONALD, ALEXANDER JOSEPH |
| ✓ BRENNAN, JOHN FRANCIS | NOLAN, RICHARD THOMAS       |
| ✓ LEAHEY, ARTHUR REGIS  | ✓ REYNO, CARVEL WALTER      |
| LYNCH, JOHN DUNCAN      |                             |

## BACHELORS OF COMMERCE

- |                             |                         |
|-----------------------------|-------------------------|
| ✓ BEED, HAROLD PATRICK      | ✓ MILLER, ROBERT EDWARD |
| ✓ CAMPBELL, DONALD SCOTT    | MULCAHY, BERNARD EDWARD |
| ✓ CAMPBELL, EMMET MACCUSKER | PINEO, JAMES RUPERT     |
| GRAVES, LOUIS ALFRED        | POWER, ROY MACK         |

## ENGINEERING DIPLOMAS

- |                            |                            |
|----------------------------|----------------------------|
| ✓ ALLEN, DAVID             | ✓ MCCARTHY, OWEN TERENCE   |
| ✓ BLANCHARD, MURRAY EUGENE | ✓ MESSERVEY, DONALD FORBES |
| INGLS, JOHN DELISLE        | MOFFATT, JOHN GERALD, B.A. |
| HOULIHAN, FRANCIS ALFRED   | ✓ NORMAN, ARTHUR WARREN    |
| LEYDON, FREDERICK THOMAS   | ✓ O'KEEFE, RONALD THOMAS   |
| ✓ LEYDON, JOHN JOSEPH      | ✓ TANTON, ROY FRASER       |
|                            | TREMAINE, JACK LANGFORD    |