## CALENDAR

of

## SAINT MARY'S UNIVERSITY <br> HALIFAX, NOVA SCOTIA

Under the direction of the Jesuit Fathers

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## 1952-1953

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A. M. D. G.<br>halifax, N. S., CANADA<br>1952


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## 1952

| JULY |  |  |  |  |  |  | AUGUST |  |  |  |  |  |  | SEPTEMBER |  |  |  |  |  |
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| 13 | 141 | 151 | 16 | 171 | 18 | 19 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 212 | 22 | 232 | 242 | 25 | 26 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 293 | 303 | 31 |  |  | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 28 | 29 | 30 |  |  |  |
|  |  |  |  |  |  |  | 31 |  |  | . | . |  | . |  |  |  |  |  |  |
| OCTOBER |  |  |  |  |  |  | NOVEMBER |  |  |  |  |  |  | DECEMBER |  |  |  |  |  |
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## 1953



## ACADEMIC CALENDAR YEAR

3 Survey Camp.
4 Last day for receiving applications for Supplemental Examinations.
16-19 Supplemental Examinations.
18-19 Registration of day students.
22 Registration of resident students.
23 CLASSES BEGIN.
26 Feast of Canadian Martyrs. Secondary Patrons of Canada.
5 Day of Recollection.
1 Feast of All Saints.
11 Remembrance Day. Requiem Mass for deceased Alumni.

8 Feast of Immaculate Conception. Patronal Feast of the University.
10 Term examinations in subjects of two semesters.
17 Christmas vacation begins.

Jan. 7 CLASSES RESUME
Jn. 26 Final Examinations in subjects of One Semester.
Feb. 2 Candlemas Day.
IFar. 7 Feast of St. Thomas Aquinas. Patron of Philosophers. Rector's Holiday.
Mar. 17 St. Patrick's Day.
Mar. 19 Feast of St. Joseph. Primary Patron of Canada. Public Speaking Contest.
$\triangle$ apr. 1 Easter Vacation begins after morning lectures.
Apr. 7 CLASSES RESUME
May 5 Final Examinations.
May 15 Senate Meeting.
May 18 High Mass, Baccalaureate Sermon.
May 19 Convocation.

## SENATE DF SAINT MARY'S UNIVERSITY

As Constituted in Accordance with the Act of 1918.

## CHANCELLOR

HIS GRACE, MOST REVEREND JOHN T. McNALLY, D.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 FREDERICK J. LYNCH, S.J. President. GEORGE H. MURPHY, M.D., C.M., F.A.C.S., LL.D.
WILLIAM F. CARROLL, B.A., LL.B., LL.D.
ERNEST I. GLENISTER, B.A., M.D., C.M.
GERALD P. FLAVIN, LL.B., Q.C.
JOHN A. WALKER, M.A., LL.B., Q.C.
REVEREND J. L. QUINAN, S.T.B., J.C.B., P.P.
REVEREND EDWARD M. BROWN, S.J., Sec. of Senate
RIGHT REVEREND CYRIL J. MARTIN, D.P., P.P.
WILFRED J. DYER, B.Sc., M.D.
ARTHUR J. HALIBURTON
LIEUT-COL. SIDNEY C. OLAND, V.D., A.D.C., LL.D.
BERNARD A. O'LEARY, B.Sc., C.E., M.E.I.C.
RIGHT REVEREND CHARLES F. CURRAN, D.D., D.P., V.F.
NORMAN STANBURY
THOMAS J. HANRAHAN
HON. HAROLD CONNOLLY, LL.D.
ALBAN MURPHY

## SAINT MARY'S UNIVERSITY



## 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 bople of Halifax in the all-important matter of education. This interest found tangible expression in the foundation, nder the inspiration of Right Reverend Bishop Fraser, of a bollege for Catholic students which was carried on for some vears without any financial assistance from or official recogition on the part of the Provincial Government of the day. this college was situated on the site now occupied by Saint Dary's Girls' School on Grafton Street. Its first Principal was the Reverend Father R. B. O'Brien, D.D., and among other professors, the staff included Reverend Father Michael Hannan, afterwards Archbishop of Halifax.

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

This Bill was entered in the House of Assembly on March $17 \mathrm{th}, 1841$ and passed on the 29th day of March of the same. jear, 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 come 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 Johr 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 generoum 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'Briet 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

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

On December 6th, 1917 occurred the disastrous Halifax plosion. Happily, none of the students in attendance at the e received any serious permanent injury, but the building e all others in the vicinity suffered severely. Classes were pended for the time being and the College was placed at the posal of a United States Army Medical Corps which had ne from Boston to minister to the victims of the dreadful astrophe. When the immediate emergency had passed and regular civil and military hospitals found themselves in a staition 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 recogition to the status of Saint Mary's College, when, on the 26th my 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 bacted by the Governor, Council and Assembly, as follows:Baint Mary's College, Halifax, originally incorporated by Dhapter 39 of the Acts of 1841, shall continue to be deemed and taken to be a University, with all the necessary and usual powers and privileges exercised by Universities, including the power of conferring Degrees in Arts, and in all the other faculties."

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

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

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

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

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

On these thirty acres today the new Saint Mary's is nearing completion: a central building for administration and classes, a north wing for 230 resident students, a south win for its Jesuit Faculty. There is accommodation for at lea 800 students and provisions for the basic university course and a private High School. The chapel is designed to seat 1,200 and will serve as a parish church for the south enc of the city. Beneath it will be a galleried gymnasium an auditorium and beyond this to the south a $91 / 4$ acre playi field that the experts say will be the best in Canada.

His Grace, the Archbishop, who is also Chancellor of the University, plans to have Saint Mary's take its lawful play among the several Universities of the Maritimes. For thi purpose he is erecting what promises to be one of the fine buildings in Eastern Canada - to maintain the traditions the past and provide for the increasing needs of the futul With its own University charter and the enthusiastic suppe of the Archdiocese of Halifax, Saint Mary's feels justified looking ahead to an increasingly influential future in Catho education.

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

## Student Iryanizatimns

The extra-curricular organizations listed below are officially gnized by the University. The activities of these societies, ich aim at developing Christian leadership, are directed by ir respective officers with the co-operation and guidance of nember of the faculty.

## Eligibility

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

## RELIGIOUS

The Apostleship of Prayer and League of the Sacred Heart. The object of the Apostleship is two-fold; to instil into the students that apostolic spirit which, as public men, it is hoped they will later on exercise in the world; and secondly, to join in the great work of reparation for the outrages daily offered to Our Lord.

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

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

## GENERAL

Students' Council. It aims at promoting the best interest of the students by sharing with the Faculty the responsibilities of University government in all non-academi matters and in accordance with the powers conferred by the President.
Tau-Gamma-Sigma Society is restricted to students in th Faculty of Arts. Its activities are chiefly social an recreational.
The Engineering Society is open to all students in the Egineering Department. Its functions correspond, general, to those of the Tau-Gamma-Sigma Society.
Delta-Lambda-Kappa Society. Students in the Department Commerce are eligible for membership. "The extra-cur cula activities of the Commerce students are controlled the executive of this society.
Debating Society. The membership of this Society is made 4 of students of Sophomore, Junior and Senior year in faculties who are taking English. Meetings are hel weekly at which Parliamentary Debates, Open Forur Mock Trials or other forms of public speaking offer members ample opportunities to train themselves und direction. The activities of the society include Interc legiate Debates, Radio Debates and Forums, etc.

The Philosophers' Academy has for its purpose the promot of philosophical study and of the investigation of philos phical problems. This purpose is accomplished by muti encouragement and stimulation and by the presentat and discussion of philosophic topics at the regular mea ings. The membership of this academy is limited to students in the second, third and fourth years of the - University course.

Saint Mary's Boat Club is owned and operated by the And diocese of Halifax to promote a Catholic social and recr tional centre. The aspiration of the University is to ma this a centre where Saint Mary's students and gradus meet, especially during the time of summer vacation.
Saint Mary's University Athletic Association regulates athletic activities of the students. All contests, exter and intra-mural are under the direction of the executil
of the Association. Prizes are provided, University Letters and other awards are regulated.
shint Mary's Playshop. A dramatic organization which prepares and present programs of entertainment under the direction of a member of the Faculty.
The Graduate Society is composed of all who have received degrees from Saint Mary's University. It possesses, under circumstances determined by the Act of Incorporation of the University, the right of appointing a member to the Senate of the University. The Society meets annually and at such other times as circumstances may suggest.
The Alumni Society. All former Saint Mary's students are eligible for membership. The Annual General Meeting is held in October on a day appointed by the executive. The Society holds social and recreational functions during the year and presents annually a Gold Medal for scholastic competition in the University.
The Journal. A newspaper edited and issued twice a month by the students.
The Collegian. A pictorial review and record of the main events of the scholastic year.
The Glee Club (Choral Society) meets one night a week to interest students in the singing of two, three and four part harmony. Its membership is open to all who are interested in music.

The Band is in attendance at all student activities and gives students an opportunity of developing musical talent.
Baint Mary's University Contingent Officers' Training Corps. The University participates in the program of academic and practical studies approved by the Department of National Defence for University undergraduates whereby students may qualify for a commission in the Canadian Army-Active Force, Reserve Force or Supplementary Reserve. Students are selected for training by the University Selection Board, comprising a member of the Faculty nominated by the President of the University, the Commanding Officer of the Contingent and the Resident Staff Officer appointed by the Army. While undergoing both theoretical and practical summer training, the students are paid at the rates prescribed for SecondLieutenants of the Canadian Army Reserve Force.

University Subsidization Scheme. This University particpates in a plan operated by the Department of National Defence whereby a limited number of students who are beginning their final year of a Degree course are com-1 missioned in the Canadian Army. Those selected are granted leave of absence with pay for a maximum period of eight months while they complete their academic course. This scheme has been further expanded to permil the commissioning of students at the beginning of theit Junior year. These students are given leave of absenc without pay for one year and then leave of absence with pay for the final year of their course.

The University Naval Training Division (U.N.T.D.) provide suitable candidates with an opportunity for undergoin training during the scholastic year and the summer vaca tions whereby students may qualify for commissione rank in the Royal Canadian Navy, and Royal Canadiat Navy (Reserve). While undergoing both theoretical an practical training students are paid at the regular servi" rates of the Royal Canadian Navy, as a cadet, of One Hundred and Seventy Dollars ( $\$ 170.00$ ) per month whe: actually training.

St. Mary's University Training Division is a tend to H.M.C.S. "SCOTIAN", the Halifax Naval Resert Division. Training for 1952 -53 will commence the fir week in October at which time recruits will be accepted.

Royal Canadian Air Force Summer Training and Subsidiation Training Schemes. The purpose of the R.C.AI training schemes offered to undergraduates of Canadiat Universities is to prepare University graduates for servi with the R.C.A.F. (Reserve or Regular Force) and al to provide them with practical training in citizenship at level commensurate with their academic attainments While on training successful candidates are paid rates pay prevailing for Pilot Officer rank.

## PLAN OF STUDIES

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

## TITRRICULA

But the University is conscious of the dignity of the Bividual, and recognizes the divergence of men's inclinations aptitudes which lead to specific vocational choices. It erefore offers a reasonable variety of course programs igned to satisfy this need. There are five major divisions, ading to the Degrees of Bachelor of Arts, Bachelor of Science and Bachelor of Commerce, and Diplomas in Journalism and gineering.
The various Faculties, each with its own proper objective, aive complete educational opportunity to Catholic young men. The Arts course is directed to basic training for professional reers. The Commerce course aims at solid business training. The Science course, with associated Engineering Diploma, repares the student for a future in industry and scientific Evelopment. Finally Journalism with its stress on the Arts irriculum, seeks to give a basic formation in publicity, public elations and associated fields.

## DISCIPLINE

It is assumed that students come to the University for a Berious purpose, and that they will cheerfully conform to duly established customs, policies and rules. These regulations are Gtended to maintain favourable study conditions, to promote character development and to foster gentlemanly deportment. No young man of integrity and good breeding can misundertand the purpose of each regulation-and no other kind of hoy is desired at the University. The faculty, therefore, re-
serves the right to censure or penalize students who are guilty of breaches of school discipline. It is the aim of the faculty to administer academic discipline so as to maintain the highest standards of integrity, yet this aim cannot be attained unless parents and guardians likewise are familiar with the routine of the school and its regulations. The registration of the student is considered an acceptance of these regulations both on the part of the student and on the part of his parents or guardian.

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

## REGISTRATION

All applications for admission to the University should be forwarded to the Registrar. Registration will take place on the dates set forth in the academic calendar. See Bursarsa Regulations for late registration fee.

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

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

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

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

## ACADEMIC REGULATIONS

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

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

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

## EXAMINATIONS

The school year is divided into two Semesters or Terms. each semester an examination in each subject is written vering the work done in class during that term. In addition, ring the semester, a test may be required in any subject and this test will count for $10 \%$ of the total marks for that semester.

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

A special examination is an examination written outside the time assigned for supplementary examinations and will be permitted only in cases of a student being prevented, for some stisfactory reason, from writing the regular examinations. (Special fee for this is listed in the Bursar's Regulations.)

## GRADES

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

A mark between $40 \%$ and $50 \%$ is a condition. A STUDENT WHO HAS RECEIVED A CONDITION MUST WRITE A SUPPLEMENTARY EXAMINATION IN THAT SUBJECT THE FOLLOWING SEPTEMBER. If a student does not write a supplementary at the prescribed time or fails in a supplementary he must repeat that subject. No more than two conditions, and consequently no more than two supplementaries, are permitted in any school year. A student who has more than two conditions must repeat those subjects in which he has conditions.

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

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

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

## AIIMISSION REDUIREMENTS

## MATRICULATION

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

The Junior matriculation requirements are as follows:

## B. A. COURSE

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

## B. COMMERCE COURSE

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

## B. SCIENCE COURSE

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

## DIPLOMA IN JOURNALISM

Same requirements as for B. A.

## DIPLOMA IN ENGINEERING

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

## ACCEPTABLE CERTIFICATES

Batisfactory marks in any of the subjects listed above accepted as credit toward the entrance requirements marks are granted by any of the following examining
(a) Certificates of the Common Examining Board of the Atlantic Provinces.
(b) High School Provincial or "Accredited" School Certificates of Grades XI or XII of Nova Scotia issued by the Department of Education of the Province of Nova Scotia.
The pass mark on Grade XI is $50 \%$. Marks of $40 \%$ or over on Grade XII subjects may be counted as equivalent to passes in corresponding Grade XI subjects.
(c) Equivalent Certificates issued by Education Departments of other Provinces.
(d) Second Year Certificates issued by Prince of Wales College, Charlottetown, Prince Edward Island.
(e) Equivalent Certificates of Matriculation Examinations taken at Universities.
(f) Certificates similar to the above issued by University or other official examining bodies, when found adequate.
(g) High School or Accredited High School certificates of the Province of New Brunswick.

## -- ADMISSION TO ADVANCED STANDING

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

The certificates to which these provisions apply are the Following:
(a) High School or Accredited School Certificate of Grade XII of Nova Scotia issued by the Department of Education;
(b) Third Year Certificate as issued by Prince of Waler College, Prince Edward Island.
(c) Certificate of the first year of Memorial University College, Newfoundland.
(d) Equivalent Senior Matriculation Certificates issued by Departments of Education of other Provinces, or approved by the Committee on Admission.
Candidates for Engineering will not be granted advancel standing in Mathematics for Grade XII credits.

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

Mathematics in Freshman Arts is a basic course in Eler mentary Mathematical Analysis.

Mathematics in Freshman Commerce is a Course in the application of mathematical methods.
GENERAL FEES - 1952-53
Thition $\$ 150.00$ a year(\$50.00 each installment)$\$ 540.00$ a year(\$180.00 each installment)
PARTICULAR FEES
Begistration Fee ..... $\$ 5.00$
brary Fee 10.00 à year
Budent Council Fee ..... 2.00
Insurance Premium ..... 4.00
Cneral Fee ..... 15.00 a year
Chation Money - for Resident Students ..... 15.00
for Day Students ..... 10.00
Girmary Fee ..... 2.00 a day
Vacation Board and Room 3.00 a day
LABORATORY FEES
Diboratory fees are payable acording to the following list:Biology 1$\$ 15.00$
Biology 2 ..... 15.00
Chemistry 1 ..... 15.00
Chemistry 2 ..... 15.00
Physics 1 ..... 15.00
Physics 2 ..... 15.00
Physics 3 ..... 15.00
Draughting 1 ..... 5.00
Draughting 2 ..... 5.00
Descriptive Geometry Draughting ..... 5.00
Graphic Statics ..... 5.00
Geology ..... 5.00
Summer Survey Camp ..... 35.00
SCHOOL OF JOURNALISM FEES
In addition to the regular tuition fee, there is a charge foreach subject taken in the School of Journalism.
Journalism 1 ..... $\$ 30.00$
Journalism 2 ..... 30.00
Journalism 3 ..... 30.00
Advertising ..... 15.00
Public Relations ..... 15.00

## BURSAR'S REGULATIONS

1. All fees are payable strictly in advance: September 23rd; January 7th; March 14th.
2. The General Fee of $\$ 15.00$ is charged to every student and includes membership in the Athletic Association, the use of campus, gymnasium and recreational facilities, school publizcations (The Journal and Collegian) and auditorium concerts.
3. Students who withdraw form the University befor the end of the academic year must arrange their accounts with the Bursar before departure. No refund of library or general fees can be granted. A proportionate rebate for board and room and tuition may be granted for absence due to sickness, if the sickness extends beyond one month.

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

If a student be asked to withdraw from the University because of infractions of rules and regulations, he wil not be entitled to any rebate of any fees.
4. Any damage done to University buildings, furnitur -or equipment will be charged to the offending students, 0 n registering at the University each Resident student must deposit $\$ 15.00$ and each Day student must deposit $\$ 10.00$ as caution money.
5. The registration fee is charged only when a student registers for the first time. However, there is a penalt charge of $\$ 5.00$ for any student who registers late, whethet registering for the first time or not.
6. The Graduation Fee with Degree is $\$ 15.00$. The Diploma in Journalism $\$ 10.00$ and Engineering $\$ 5.00$.
7. Students requiring a special examination in any suby ject will be charged $\$ 10.00$ a subject. Supplementary exami nations are $\$ 5.00$ a subject.
8. An extra monthly charge is made in the exceptional case when a room is assigned to one student only.
9. Students who arrive before the opening day or remain at the University during vacations will be charged at the rate of $\$ 3.00$ per day.
10. Outside accounts (music teacher, druggist, doctors hospital, etc.) will not be handled by the Bursar unless a

Chosit has been made to cover them. Use of piano for practice will be an extra charge.
11. Resident students' spending money and personal pense money must be arranged through deposits with the Brsar by the student's parent or guardian.
12. The University will not advance money for the purdase of text books, stationery, travel or personal expenses.
13. The University accepts no responsibility for injuries loss of time incurred by students while taking part in student activities.
14. During the school term, however, students are covered on compulsory payment of a premium of $\$ 4.00$ by esurance against accident occurring on the University remises or elsewhere under University supervision. The olicy provides up to $\$ 50.00$ for medical and dental coverage. Claims are made directly to the insurance company.
15. Students who, with the approval of the Dean, register for individual subjects, will be charged at the rate if $\$ 35.00$ per subject each term, but when this charge exceeds the regular tuition, the latter rate will apply.
16. Out-of-town students will not be permitted to reside butside the University.
17. Students who wish to have a transcript of marks will receive two copies free. But no student will be admitted to a term examination or be promoted from one class to another or receive any report, degree, diploma, certificate or testimonial whatsoever, until his financial accounts have been satisfactorily settled.
18. Drafts, cheques, money orders, etc., should be made payable at par to SAINT MARY'S UNIVERSITY and addressed the Bursar, Saint Mary's University, Robie Street, Halifax, N. S.
N.B.-Fees are subject to change with the varying cost of living.

## FACULTIES

## ARTS

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

## Degree of Bachelor of Arts

| FIRST YEAR | SECOND YEAR | THIRD YEAR | FOURTH YEAR |
| :--- | :--- | :--- | :--- |
| English 1 | English 2 | English 3 | English 4 |
| Philosophy 1 | PRilosoph 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, Biology, Zoology. If either Chemistry or Physics is elected, Mathematics must also be taken.

Latin is obligatory for two years for all Arts students.
Students planning to enter the professions of dentistry, law or medicine should see that their course of studies includes subjects prerequisite to entrance in the professional school of their choice.

For the combined Arts and Journalism course, as explained on page 29, the following subjects must be added to the course above required for the Bachelor of Arts degree:

Journalism 2

Journalism 3
English 3J.

## SCIENCE

The Faculty of Science offers honour courses in ChemisPhysics and Mathematics and a general course.

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

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

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

## Degree of Bachelor of Science with Honours in Chemistry

IIRST YEAR SECOND YEAR THIRD YEAR FOURTH YEAR
emistry 1 nglish 1 french 1 Thematics 1E rathematics 2 E Hilosophy 1 lyysics 1 Beligion 1

SECOND YEAR THIRD YEAR
Chemistry 9
Chemistry 10
Chemistry 11
Chemistry 12
Chemistry 13
English 3
Mathematics 4c Philosophy 3 Physics 3
Religion 3

FOURTH YEAR
Chemistry 16
Chemistry 17
Chemistry
18 or 19
Chemistry 20
Chemistry 21
Chemistry 22
French 5
Mechanics 4
Philosophy 4
Religion 4

## Degree of Bachelor of Science with Honours in Mathematics

IIRST YEAR SECOND YEAR THIRD YEAR FOURTH YEAR
Bnglish 1
French 1
Mathematics 1E
Mathematics 2E
Philosophy 1
Physics 1
Religion 1

Bnglish 1
Prench 1
Mematics 1E
Philosophy 1
Physics 1
Religion 1

English 2
Mathematics 3
Mathematics 5 Mathematics 6 Philosophy 2
Physics 2
Religion 2

English 3
Mathematics 7
Mathematics 8
Mathematics 9
Philosophy 3
Physics 3
Religion 3

English 4
French 5
Mathematics 10
Mathematics 11 Mathematics 12 Mechanics 4 Philosophy 4 Religion 4

## Degree of Bachelor of Science with Honours in Physics

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

## Degree of Bachelor of Science General Course

FIRST YEAR English 1
Philosophy 1 Religion 1 Elective 1 Elective 2 Elective 3

SECOND YEAR English 2 Philosophy 2 Religion 2 Elective 4 Elective 5 Elective 6

THIRD YEAR
English 3
Philosophy 3
Religion 3
Elective 7
Elective 8
Elective 8

FOUTHE YEAR
English 4
Philosophy 4
Religion 4
Elective 10
Elective 11
Elective 12

## COMMERCE

As a broad, technical training is of paramount significance he field of competitive business, the course leading to a ree of Bachelor of Commerce is offered to students who ire the advantage of higher education and want, at the time, to prepare themselves for a commercial career. aim of this faculty is to combine the cultural aspects of ation with the general principles of business. The courses of University standard and a number of them are taken he faculty of Arts.
The degree of Bachelor of Commerce is conferred upon satisfactory completion of a course of four years study in Department.
The following extract from the by-laws of the Institute Chartered Accountants of Nova Scotia is drawn to the antion of students of Commerce: "The Council, in its distion, may reduce the period of service to two years or one may exempt a registered student who holds a Bachelor
Commerce degree from the Primary examination of the titute."

| RST YEAR |
| :---: |
| soounting 1 |
| Eotnomics 1 |
| zlish 1 |
| y-nch 1 |
| thematics 1 |
| thosophy 1 |
| eligion 1 |

HRST YEAR s soounting 1 conomics 1 Tthematics 1 Rlosophy 1 Beligion 1

Degree of Bachelor of Commerce

Students in Arts may, if they have previous permission of the Dean of Studies, proceed to the degree of Bachelor of Commerce by taking the following courses in the Faculty of Dommerce, in addition to the subjects required for the Bachelor of Arts degree as shown on Page 24.

| Bocounting 1 | Accounting 2 <br> Commercial Law <br> Economics 2 | Accounting 3 <br> Economics 3 | Accounting 4 <br> Auditing |
| :--- | :--- | :--- | :--- |
|  |  | 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

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

For the Diploma in Engineering, the syllabus of studies is that prescribed by Nova Scotia Technical College for the first three years of its five year course. The first three years are given only at the associated College, of which Saint Mary's is one, together with Acadia University, Dalhousie Universits, 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 Scot Technical College, Laval University or McGill University either Civil, Electrical, Mechanical, Chemical or Metallurgic or Mining, and obtain the Degree of Bachelor of Engineeri at the successful completion of the last two years of the file year course.

## Bachelor of Science with Engineering

FIRST YEAR
Chemistry 1
Draughting 1
English 1
French 1
or Latin 1
Mathematics 1
Physics 1
Religion 1

| SECOND YEAR | THIRD YEAR |
| :--- | :--- |
| Chemistry 2 | Chemistry 3 |
| Descriptive | Economics 1 |
| Geometry | Geology |
| Draughting 2 | Graphical Statics |
| Engineering | Mathematics 3 |
| Problems | Mechanics 1 |
| English 2 | Physics 3 |
| Mathematics 2 | Religion 3 |
| Physics 2 | Survey 2 |
| Religion 2 |  |
| Survey 1 Camp |  |
| Survey Camp |  |

FOURTH YEA

Chemistry 2 Descriptive Geometry Draughting 2 Engineering Problems English 2 Mathematics 2 Physics 2 Religion 2 Survey 1 Survey Camp

Chemistry 3
Economics 1
Geology
Graphical Statics
Mathematics 3
Mechanics 1
Physics 3
Religion 3
Survey 2

English 4
Ethics (Phil. 3 )
Materials of Engineering
Mathematics 4
Mechanics 2
Religion 4
Strength of Materials
Thermodynancla

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

## SCHOOL OF JOURNALISM

This school was established in 1945 in co-operation with local newspapers, the Halifax Herald, the Halifax Mail, the lifax Star and the Halifax Chronicle. Its aim is to combine - horough training in the techniques of newspaper work with budy of the liberal arts so as to produce skilled journalists
a broad cultural background. Professional technical - irses 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 Arts and obtain both the Diploma in Journalism and the Degree of Bachelor of Arts; the Diploma at the end of three ymars, the Degree in the following year.

## Diploma in Journalism

HRST YEAR
reglish 1 zeanch 1
malism 1
-itury 2
Istory of Science
tiosophy 1
eligion 1

SECOND YEAR THIRD YEAR
Assignment Work English 3
English 2
French 2 Journalism 2 History 4 Psychology (Phil. 2) Religion 2 Advertising

Journalism 3
Ethics (Phil. 3)
Political Science
Religion 8
Sociology
Public Relations

## Degree in Arts with Journalism

For this combined syllabus, the following subjects must be added to the course required for the Bachelor of Arts decree, as outlined on page 24.

# COLRSES OF STUIIY 

## Degree of Bachelor of Arts

FIRST YEAR
English 1 Philosophy 1 Religion 1
Elective A1
Elective B1
Elective C1

SECOND YEAR THIRD YEAR
English 2 English 3
Philosophy 2 Philosophy 3
Religion 2 Religion 3
Elective A2 Elective A3 Elective B2 Elective D1
Elective C2 Elective E1

FOURTH YEAR
English 4
Philosophy 4
Religion 4
Elective A4
Elective D2
Elective E2

## Degree of Bachelor of Science with Honours in Chemistry

FIRST YEAR Chemistry 1 English 1 French 1
Mathematics 1E Mathematics 2E Philosophy 1 Physics 1 Religion 1

SECOND YEAR THIRD YEAR Chemistry 2 Chemistry 4 Chemistry 6 Chemistry 7 Chemistry 14 English 2 Mathematics 3 Philosophy 2 Religion 2

Chemistry 9
Chemistry 10
Chemistry 11
Chemistry 12
Chemistry 13
English 3
Mathematics 4 c
Philosophy 3
Physics 3
Religion 3

FOURTH YEAR
Chemistry 16
Chemistry 17
Chemistry 18 or 18
Chemistry 20
Chemistry 21
Chemistry 22
French 5
Mechanics 4
Philosophy 4
Religion 4

## Degree of Bachelor of Science with Honours in Mathematics

FIRST YEAR
English 1
French 1
Mathematics 1E
Mathematics 2E
Phisolophy 1
Physics 1
Religion 1

SECOND YEAR English 2 Mathematics 3 Mathematics 5 Mathematics 6 (Philosophy 2 Physics 2 Religion 2

THIRD YEAR
English 3
Mathematics 7
Mathematics 8
Mathematics 9
Philosophy 3
Physics 3
Religion 3

FOURTH YEA
English 4
French 5
Mathematics 10
Mathematics 11
Mathematics 18
Mechanics 4
Philosophy 4 Religion 4

## Degree of Bachelor of Science with Honours in Physics

FIRST YEAR
Chemistry 1
English 1
French 1
Mathematics 1E
Mathematics 2E
Philosophy 1
Physics 1
Religion 1

SECOND YEAR THIRD YEAR
English 2
Mathematics 3 Mechanics 2
Philosophy 2
Physics 2
Physics 3
Religion 2

English 3 Mechanics 4 Philosophy 3 Physics 4 Physics 5 Physics 6
Religion 3

FOURTH YEA
English 4
French 5
Philosophy 4
Physics 7
Physics 8
Physics 9
Physics 10
Religion 4

# Degree of Bachelor of Science <br> General Course 

## BI YEAR <br> 1 <br> ophy 1 <br> -rtive <br> trive <br> tive 3

SECOND YEAR THIRD YEAR
English 2 Philosophy 2
Religion 2
Elective 4
Elective 5
Elective 6

THIRD YEAR
English 3
Philosophy 3
Religion 3
Elective 7
Elective 8
Elective 9

FOURTH YEAR
English 4
Philosophy 4
Religion 4
Elective 10
Elective 11
Elective 12

## Degree of Bachelor of Commerce

## $=$ nting 1 S-manics 1 $=\operatorname{rin} 1$ ch 1 matics 1 ophy 1 <br> ion 1

Accounting 2 Accounting
Commercial Law Economics 3 Economics 2 English 3 English $2 \quad$ Philosophy 3 French 2 Political Science
Philosophy 2 Religion 2

Accounting 4
Auditing Economics 4 English 4 History 4 Philosophy 4 Religion 4 Sociology

Degree of Bachelor of Science with Engineering

| aistry 1 <br> ghting 1 <br> ish 1 <br> ch 1 <br> Latin 1 <br> hematics 1 <br> sics 1 <br> gion 1 |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Chemistry 2
Descriptive Geometry
Draughting 2
Engineering
Problems
English 2
Mathematics 2
Physics 2
Religion 2
Survey 1
Survey Camp

Chemistry 3
Economics 1
Geology
Graphical Statics
Mathematics 3
Mechanics 1
Physics 3
Religion 3
Survey 8

English 4 Ethics (Phil. 3)
Materials of Engineering Mathematics 4 Mechanics 2
Religion 4
Strength of Materials
Thermodynamics

## Diploma in Engineering

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

[^0]Diploma in Journalism

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

English 3J
Journalism 3 Ethics (Phil. 3)
Political Science
Religion 8
Sociology
Public Relations

## COURSES IF INGTRULTIIN

## ACCOUNTING

Accounting 1. The material deals with journals, ledgers and registers; trial balances, working papers, profit and loss stater ments, balance sheets and statements of earned surplus. It covers the accounting cycle - purchases, sales, receipts and payments-and introduces adjustments for depreciation and bad debts. The voucher system, sale proprietorships and partnerships make up the last phase of the year's work.

> TEXT: Principles of Accounting-Introductory-Fintr (Prentice-Hall)
> Three hours a week; two semesters.
> Laboratory: Two hours a week, two semesters.

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

> TEXT: Principles of Accounting-Introductory-Finnel (Prentice-Hall)
> Three hours a week; two semesters. Laboratory: Two hours a week, two semesters.

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

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

TEXT: Principles of Accounting. Intermediate-Finney (Prentice-Hall)
Three hours a week; two semesters. Laboratory: Two hours a week, two semesters.
lecounting 4. The advanced course devotes considerable attention to partnership accounting and deals with consigntents; installment sales; insurance; the correction of statements and books; home office and branch accounting.

To promote the analytical thinking implicit in consoliated accounting work the subject matter deals extensively ith parents and subsidiary companies.

TEXT: Principles of Accounting-Advanced.-Finney (Prentice Hall)
Three hours a week; two semesters.
Laboratory: Two hours a week, two semesters.

## AUDITING

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

TEXT: Audit Practice Case. Meyer (Prentice-Hall) Auditing, Smails (Pitman)
Lectures: One hour a week, two semesters. Laboratory: Two hours a week, two semesters.

## BIOLOGY

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

TEXTS: Animal Biology, Guyer. (Harper)
Botany, Principles and Problems, Sinnott (McGraw-Hill)
Lectures: Three hours a week, two semesters. Laboratory: Three hours a week, two semesters

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

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

## CHEMISTRY

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

TEXT: College Chemistry, Smith, (Appleton-Century) Two hours a week, two semesters.
Laboratory: Three hours a week, two semesters.
Chemistry 2. Elementary Qualitative Analysis. An introductory course in the theory and techniques of inorganic qualitative analysis; Ionic equilibria, solubility products, etc.

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

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

TEXT: Principles of Chemistry, Hildebrand, (Macmillan). Two hours a week, two semesters.
Chemistry 4. Organic Chemistry. A study of the chief aliphatic and aromatic compounds 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.
Chemistry 5. Elementary Quantitative Analysis. An introductory course in the theory and techniques of inorganic quantitative analysis.

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

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

Lectures: Three hours a week, two semesters.

Chemistry 7. Quantitative Analysis. A first course for Honours Chemistry and Chemical Engineering students.

Lectures: One hour a week, one semester
Laboratory: Seven hours a week, one semester; four hours a week, one semester.

Chemistry 8. Inorganic Chemistry. Lectures on the classification of chemical data in the Periodic Table.

Lectures: One hour a week, two semesters.

Chemistry 9. Organic Chemistry. A second course with emphasis placed on reaction conditions.

Lectures: Two hours a week, two semesters.

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

Chemistry 11. Chemical Thermodynamics. A study of the significance, measurement, and practical application of entrophy and free energy changes.

Lectures: Three hours a week, two semesters.

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

Chemistry 13. A study of the Phase Rule and the graphical representation of equilibrium data.

Lectures: One hour a week, two semesters.

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

Chemistry 15. Theory of Physical Chemistry Measurements. A course intended primarily for Pre-medicine students.

Lectures: Three hours a week, two semesters.

Chemistry 16. Advanced Organic Chemistry. Emphasiy placed on molecular structure.

Lectures: Two hours a week, two semesters..
Chemistry 17. Electroohemistry. Conductance and mobilities. E.M.F.'s in thermodynamic theory, polarization, reactions at electrodes, etc.

Lectures: Two hours a week, one semester.
Chemistry 18. Atomic Structures.
Lectures: Two hours a week, one semester.
Chemistry 19. Kinetic Theory. Prerequisite, Chemistry 6.
Lectures: Two hours a week, one semester.
Chemistry 20. Advanced Physical Chemistry Laboratory Reaction rates and yields. Surface phenomena. Electrochemistry.

Laboratory: Six hours a week, two semesters.
Chemistry 21. Conferences and laboratory work to introduce the student to original research.
Conferences and Laboratory: Ten hours a week, two semesters
Chemistry 22. Chemistry of Surfaces.
Lectures: Two hours a week, one semester.

## COMMERCIAL LAW

Negotiable Instruments and their validity; contracts and arms of sale; legal liability in various business transactions; pany formation and dissolution; bankruptcy; insurance; re important Canadian legislation affecting trade and -mmerce.
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 phasis on practical draughting related to mining, construc-
tion, geological and topographical applications.
ПXTS: Applied Descriptive Geometry, Warner, (McGrawHill).
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 to develop the technical skill of the student and to train - in to visualize and reproduce simple objects by drawings. Special attention is given to lettering.
HEXTS: Technical Drawing; Technical Drawing Problems; Giesecke, Mitchell \& Spenser, (Macmillan).
Three hours a week; two semesters.

Draughting 2. (a) Plotting, by various methods, the notes biken during area surveys at summer camp.
(b) Advanced machine draughting with an mitroduction to the theory of oblique drawing and perspective. The use of auxiliary views, employing more difficult problems in sectioning and dimensioning.
TEXT: Technical Drawing, Giesecke, Mitchell \& Spencer, (Macmillan).
Three hours a week; two semesters.

## ECONOMICS

## Economics 1. General Principles of Economics

Human Wants and Scarcity; fundamental concepts; chsen acteristics 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, Business activity; price determination; Costs of Production: competitive prices, monopoly prices; International Trade, diatribution of Income; Rent, Wages, Interest, profits; the pri ciples of Consumption.

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

## Economics 2. Canadian Problems.

National and Political life; Economic developments; Poper lation and its problems; the growth of Industry and Cow merce; Agriculture in the economy of Canada; Banking and Currency ; Transportation.

Reference: Report of the Royal Commission on DominiorProvincial 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; Commet Stock; Stocks with preferences; Bonds; the promotion of a Business; Valuation of a Business; Financing manufactur Promotion of a Public Utility; marketing of Securities; Wort ing Capital; Adjustments for wasting assets and future lossea; computation of Surplus; distributing Profits; the voting trust; Investment Companies; Business expansion; Industrial com binations; Corporation failures, reorganizations.

TEXT: Corporation Finance, Dewing, (Ronald Press). Three hours a week, two semesters.

Regular compulsory assignments.

Ebonomics 4. American Economic History.
Economic causes of the American Revolution; Finance ad Tariff; Westward expansion from the Revolution to the Eril War; Economic causes of the Civil War, significance;

Agrarian Revolution; the Industrial Revolution; consolifation of Business; the Labor movement; Financial History - 1860; Economic Imperialism; First World War; Economic -tpression and Collapse; the New Deal; World Economic rations.

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 sarves as a review of acquired knowledge and aims at developing thoroughness and accuracy.

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

Three hours a week, two semesters.

## ENGLISH

## English 1.

1a. Survey of English Literature, from the Anglo-Saxom Invasion to the middle of the Seventeenth Century, with specisl attention to Bede, Malory, Chaucer; More, Spenser, Southwelli Campion.

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

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

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

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

TEXTS: The Literature of England, Vol I., Woods, Watt, Anderson, pp. 1-563, (Scott, Foresman).
Composition text American College English (Gage) Five hours a week, two semesters.

## English 2.

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

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

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

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

2e. Debating. One hour a week. Active membership in 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.

## Dglish 3.

3a. English Literature: the Age of Romanticism. The phoach to Romanticism, Gray, Cowper, Burns, Blake: mantic Poetry, Wordsworth, Coleridge, Scott, Byron, elley, Keats; the minor poets, Southey, More, Hood, Landor: mantic Prose, Lamb, Hazlitt, De Quincey.
The Victorian Era. Prose: Macaulay, Newman, Carlyle, Riskin, Matthew Arnold, Pater:

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

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

3c. A critical study of the novel, as exemplified by the buthors 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 University 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

## I

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

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

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

Three hours a week, two semesters.

## French 2 Functional Grammar

This course, which will consist of oral and written work, will include:
(a) a general knowledge of the functional forms of French grammar remaining from the lower courses, and which the average student finds somewhat difficult to master leg. use of tenses, subjunctive mood, relative pronouns, past |articiples etc.) ;
(b) written translation work from English into French for the purpose of making practical the general grammar review.

TEXT: Modern French Course, Dondo, Part II.
Three hours a week, two semesters.

## French 3 Le Roman

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

TEXTS: Contes et Comédies ........Harper La terre qui meure ........ Bazin Choix de Fables . . . . . . . . . La Fontaine Dictionary . . . . . . . . . . . . . . Kittredge Le tour du monde . ......... Verne
Three hours a week; two semesters.

## French 4 Diction

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

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

Three hours a week, two semesters.
French 5 Translation and Composition
The purpose of this course is:
(a) to review grammar by means of graded translation into French;
(b) to develop fluency in written French by practising the translation of set composition on subjects connected with French culture and customs.
TEXT: New French Review Grammar and CompositionBarton \& Sirich.

Three hours a week, two semesters.

## French 6 Modern French Dramatists

Two authors have been chosen for analytical study from the vast literature of this field. Rostand for his gracefulf eloquence, poetry and wit; Bornier for his ringing echoes of epic poetry written in the truly classical dramatic form. Thes authors will be used for intensive study of their dramatic lyrig and physchological content; an extensive knowledge of choice of those listed as "Readings" will also be required of the student.
Readings: A Short History of French Literatur-Strache
Comédies et proverbes, Lorenzaccio - Alfred
Musset.

Henri III et sa cour .... A. Dumas
Hernani, Ruy Blas ....V. Hugo
Chatterton ............A. de Vigny
TEXTS: Cyrano de Bergerac - Holt
La fille de Roland - Heath
Three hours a week; two semesters.

## III

Fhench 7 Translation and Composition
The purpose of this course is,
(a) to complete the review of grammar by means of graded translations into French;
(b) to further develop fluency in written French by means of free compositions on assigned subjects connected with French customs and literature.
TEXT: New French Review Grammar and CompositionBarton \& Sirich.

Three hours a week, two semesters.

Prench 8 Trends in Nineteenth Century French Literature
This course will present the outstanding figures of the lariod and their contribution to the great movements of Romanticism, Realism and Symbolism which characterize the French literature of this century.
IEXTS: L'Evolution de la Littérature française - Verriest Nineteenth Century French Readings-Vol. I \& IISchinz.

Three hours a week; two semesters.

French 9 (a) The Golden Age of French Literature
This course will deal chiefly with the great dramatists of the French classical period who reflect most vividly the literary trends and seventeenth century French life.
TEXTS: L'Evolution de la Littérature française - Verriest Horace-Corneille
Le Bourgeois Gentilhomme .. . . . Molière
Le Malade Imaginaire . . . . . . . . Moliere
Lettres . . . . . . . . . . . . . . . . . . . Mme. re Sévigné
Three hours a week; one semester.

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

The Eighteenth century, le siècle de Voltaire, is above all a century of ideas and their popularization-ideas that culmis nated in the French Revolution. This course will be a study of the literary school that furnished the ideas and saw to their propagation.
TEXTS: L'évolution de la littérature française - Verriest Eighteenth Century French Readings - Schinz.

Three hours a week; one semester.

## French 10 French in Scientific Literature

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

One seminar a week for two semesters.

## GEOLOGY

This course lays special emphasis on the application geologic principles to the problems of engineering. A bricl synopsis of stratigraphical and historical geology. A micro scopic study of rocks with special reference to forms description and methods of classification as represented by 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 system of loads; graphical representations of shears and moments fo non-continuous and continuous beams ; roof trusses; dead, live and wind load stresses for fixed ends and ends on rollers; maximum stresses; simple bridge trusses; simple cantilevers.

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

## HISTORY

story 1. Mediaeval History. From the beginning of the
ristian era to 1500 A.D. Conflict between Paganism and
ristianity; Constantine; the Invasion of the Barbarians; the
ingelization of Europe; the onslaught of Islam; the Empire
Charlemagne; Germany and the conflicts between Empire
Pd Papacy; Norman conquests of England and Italy; the
vasion of Ireland; France under the Capetians; the Hundred
rears War; Feudalism; Chivalry; the Crusades; the Univer-
lies; the Great Schism of the West; Portuguese explorations
nd the voyages of Columbus.
TEXT: Mediaeval History - Carl Stephenson (Harper \&
Brothers)
Three hours a week; two semesters.
story 2. Renaissance, Reformation, Revolution. 1500-1815 D. Background of the Renaissance in Italy; Petrarch and mte; European Literature and Culture in the fourteenth d fifteenth centuries; the Humanists.

The Reformation; Religious conditions in Europe in the treenth 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 Thench interests in America and India; Seven Years War; development of Prussia; the French Revolution; Robespierre; Tapoleonic Era.

TEXT: Political and Cultural History of Modern Europe, Vol. I, Hayes, (Macmillan).
Three hours a week, two semesters.

[^1]civilization in America and Africa the British Empire Inters national relations, (1871-1914).

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

Three hours a week; two semesters.
History 4. History of Today.
World War I, 1914-1919; its background and immediate causes; the entry of the United States; military operations; poison gas and propaganda; peace moves and war aims; the Peace Conference of Paris; the Treaty of Versailles; othe peace treaties.

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

Second World War, 1939-1945; the background; outbreal of war; the Sitzkrieg, Blitzkrieg; the fall of France, the Battl 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 Atoml| Bomb; Victory in Japan; the aftermath.

TEXT: The World since 1914, Langsam, (Macmillan)
Three hours a week; two semesters.

## HISTORY OF SCIENCE

The purpose of this course is not only to give an outlin of scientific progress through the ages, but also to trace $t$ influence of the scientific background on literature and polit cal thought. The course falls naturally into six parts: Scien in the Ancient World, The Middle Ages, The Renaissance, Th Newtonian Revolution, The Nineteenth Century and the Neal Era in Physics.

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

REFERENCES: The Rise of Modern Physics, Crew: Histod of Mathematics, Ball: The History of Biology, Nordo skiold: A History of Chemistry, Brown: Greek Astro omy, Heath: A Short History of Medicine, Singer, Tlu Autobiography of Science, Moulton and Schifferes.

Two hours a week, two semesters.

## JOURNALISM

malism 1. Introduction to Journalism. Subjects to be assed in lectures will include: Journalism as a Career, Values; Style of News Writing; Construction of eles. Minor assignment work, instruction in interrs, etc.

Two hours a week, two semesters.

## 7innalism 2.

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

Two hours a week, one semester.
2b. Copy and proof-reading, headline writing. Backand training for desk-work and accurate and effective dling of news material.

Two hours a week, one semester.

Jomalism 3.
Newspaper editing, features, editorials, newspaper policy practice. Public Relations.

Two hours a week, two semesters.

## LATIN

## Latin 1

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

1b Composition. Bradley's Arnold ex. 1-14.
1c Roman History. Three hours a week, two semesters.

## Latin 2

2a Authors. Cicero, Pro Lege Manilia; Livy, Book XX Virgil, Aeneid VI.
Composition. Bradley's Arnold ex. 15-32.
History of Latin Literature. Latin Literature, Mackail.

Three hours a week, two semesters.

## Latin 3

3a Authors. Horace, Odes \& Epodes, Ars Poetic Satires \& Epistles.

3b Composition. Bradley's Arnold ex. 33-53.
3c Latin Prosody, A study of the rules of Latin prosod scansion and verse forms.

Three hours a week, two semesters.

Latin 4
4a Authors. Tacitus; the minor poets, Ennius, Catull Tibullus, Phoedrus, Seneca, Martial.

4b Composition. Bradley's ex. 54 to the end.
4c Ecclesiastical Latin. From Latin for Use, Holsaphe (Crofts)

Three hours a week, two semesters.

## MATERIALS FOR ENGINEERING

A presentation of the physical properties of common terials used in structures and machines, together with deiptions of their manufacture and fabrications. Testing chines and Standard Tests.
TEXT: Properties of Materials of Engineering, Murphy (International Text Book)
One hour a week, two semesters.

## MATHEMATICS

Whthematics 1 A (Arts)
1a. An analysis of arithmetic, algebraic and geometric filindamentals and their application to practical problems.

1b. Elementary Trigonometry and an introduction to cillculus.

TEXT: Elementary Mathematical Analysis. Tate. (Pitman).
Three hours a week, two semesters.
Hathematics 1C (Commerce)
2a. Mathematics of Finance. Commercial Algebra; Equations, Proportion, Percentage, Interest, Discount, Expoents, Radicals, Compound Interest, Annuities, Life Insurance. Three hours a week, two semesters.
TEXT: Mathematics of Finance: Simpson, Pirenian, Crenshaw. (Prentice-Hall).
2b. Statistical Procedures. Measurement of Central Tendencies and Variability, Correlation, Reliability, MultipleFlector Analysis, Variance.

TEXT: Statistical Procedures and Their Mathematical Bases. Peters and VanVoorhis. (McGraw-Hill) Three hours a week, two semesters.

## Mathematics IE (Engineers and Science)

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

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

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

TEXTS: College Algebra, Ross R. Middlemiss. (McGravHill).
TEXTS: Elementary Trigonometry-Evans-(Ginn) Five hours a week, two semesters.

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

2d. Differential Calculus. Study of the Infinitesimals. Limits, Limiting Values of Ratios, Differential Coefficient Differentiation of Simple, Complex and Transcendental Funstions; Equations of Tangents and Normals; lengths of Sulr tangents and Subnormals; determination of Angles of Inter sections of Curves; Problems on Rates, Maxima and Minims

TEXT: Analytic Geometry and Calculus, Gay (McGray. Hill).
Three hours a week, two semesters.

Mathematics 3. Integral Calculus. Standard methods of Integration Formulae. Use of Calculus in determining Ares Volumes, Centroids, Moments of Inertia, Lengths of Curv and in the solution of other problems occuring in Mechanid and General Physics. An elementary study of Differentil Equations.

TEXT: Analytic Geometry and Calculus, Gay (McGrarl-
$\begin{gathered}\text { Hill). }\end{gathered}$
Three hours a week, two semesters.

## Whthematics 4.

4a. Mathematical Analysis. Complex Quantities and Eeir Graphical representation, De Moivre's Theorem, Hyperselic Functions, Expansion of Functions, Fourier's Series, Trobability.

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

Three hours a week, one semester.

4b. Spherical Trigonometry. Relations between the -ies and angles of a spherical triangle. Solution of the terhastrial and astronomical triangles. Problems in navigation, Frveying and astronomy.

TEXT: Spherical Trigonometry, Murray, (Longmans). One hour a week, one semester.

4c. Differential Equations. A first course for students of engineering, physics and chemistry.
TEXT: Differential equations in applied chemistry. Hitchcock and Robinson, (Wiley)

Mathematics 5. Elementary Geometry of Quadrics. A second course in analytic geometry terminating in a knowledge of the properties of quadric surfaces.
TEXT: Analytic Geometry, Smith, Salkover and Justice, (Wiley)

Three hours a week, two semesters.

Mathematics 6. Elementary Theory of Equations. General theorems. Methods of solutions. Cubic and quartic equaBions. Determinants. Symmetric functions. Resultants. Discriminants and Elimination.
TEXT: The Theory of Equations: Conkwright, (Ginn) Three hours a week, two semesters.

Mathematics 7. Applied Alegbra and Calculus. The use of theory of equations differentiation and integration, with em-
phasis on the underlying principles, rather than on direl application to specific problems.

TEXT: Higher Mathematics for Engineers and Physicist Sokolnikoff and Sokolnikoff, (McGraw-Hill)

Three hours a week, two semesters.

Mathematics 8. Functions of a Real Variable. The contin ous real variable. Dedkind's theorem. Weierstrass theore Rational functions. Loci in space. Complex numbers. Limof a function. The infinite in analysis.

TEXT: Mathematical Analysis, Goursat-Hedrick, Vol. I. Three hours a week, two semesters.

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

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

Three hours a week, two semesters.

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

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

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

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

Three hours a week, two semesters.
Mathematics 12. Modern Geometry. An introduction to mathematical presuppositions and relations which form basis of modern geometry.

TEXT: The Foundation of Geometry, Robinson.
Three hours a week, two semesters.

## MECHANICS

Terhanics 1. Mechanics of Machines. Motions and Velocities; Itantaneous Center; Kinematic Chain Velocity diagrams; lims, Gearing, Belting, Intermittent Motions.

> TEXT: Kinematic Problems, Wingrin, (Prentice-Hall) Kinematic of Machines, Guillet (Wiley) Three hours a week; two semesters.

Wehanics 2. Applied Mechanics. Co-planar force systems, phical and analytic methods, application to determination Wresses in common trusses and cranes'; Friction, determinan of Centroids and Moments of Inertia. Rectilinear, Curnear and Rotational motion of particles and solid bodies; hk, Energy and Power. Impulse of Momentum.
TEXT: Applied Mechanics, Poorman, (McGraw-Hill).
Three hours a week, two semesters.
Whehanics 3. Statics. Analytic and graphic solution of sysns of coplanar forces and of forces in spaces.
TEXT: Applied Mechanics, Poorman, (McGraw-Hill)
Three hours a week, two semesters.

Wechanics 4. Mechanics of Molecules. General principles of ssical mechanics. The rigid body. Absolute and relative locity. The Hamiltonian form of the kinetic energy. Introetion of quantum mechanics.
TEXT: Principles of Mechanics, Synge and Griffiths. (McGraw-Hill)

Three hours a week, two semesters.

## PHILOSOPHY

## Philosophy 1.

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

TEXT: Logic, A. H. Bachhuber. (St. Louis U.).
References: Science of Correct Thinking, Bittle. (Bruce) Formal Logic, J. Maritain.
Three hours a week, one semester.
1b. Epistemology. The problem of knowledge; trit and error; certitude; motives for certitude; Scepticism, tesian Doubt, Idealism, Relativism, Pragmatism, the proh of the Universals, the criterion of truth; Induction and duction.

TEXT: Reality and the Mind. Bittle. (Bruce)
Three hours a week, one semester.

Philosophy 2. Psychology and Natural Theology (1952-18
2a. General Introduction to Psychology. Man is stud as a living organism. The nature of life, the nervous syst the senses, internal and external; imagination, memory, stinct and appetite are studied as functions of the ani organism. Modern experiments in psychology are surve and their contributions evaluated. Man is then studied rational animal. Intellection, volition, freedom of the will, nature of the soul, its spirituality, immortality and its ori The human person and its destiny.

TEXT: The Philosophy of Human Nature. George Klubertanz. (St. Louis U.).
References: Psychology, Maher
Principles of Psychology, Harmon
Summa Theologica, Part 1, St. Thona Aquinas.

2b. Natural Theology. The existence of God, His nat and attributes. Creation, Providence. Theism and Atheist

TEXT: Special Metaphysics, Part II, Natural Theoln McCormick (Loyola)
References: Natural Theology, Joyce. Manual of Scholastic Philosophy, Mercier
Psychology: 60 hours. Natural Theology, 30 hours.

3a. Ethics. (1) General Ethics. The nature of human the morality of actions; the distinction between moral and moral evil; duty ; natural law, positive law; norm and heria of morality, rights.
(2) The application of general principles; individual and right and obligations; Natural Religion; nature of te property; domestic society; marriage and divorce; society, its nature and forms; socialism; the philosophy Sommunism. Church and State; international law; peace war.
TEXT: Folio
References: Liberty, Its Use and Abuse. Cox. The Science of Ethics. Cronin. Reading in Ethics. Leibel. Man as Man. Higgins.
Four hours, one semester.

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

TEXT: The Philosophy of Being. Renard (St. Louis U.).
References:
General Metaphysics. Rickaby.
Manual of Modern Scholastic Philosophy. Mercier.
(2) Special Metaphysics. Cosmology: the nature and lrigin 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 teachings of Socrates, Plato, Aristotle and Plotinus among Greeks; and to St. Augustine as representative of the ear Christian philosophers.

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

4c. Modern Philosophy: Descartes, Locke, Hume, Ka 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. DeWult. Origins of Contemporary Philosophy. Mercier. History of Philosophy. Turner. History of Philosophy. Copleston. Being and some Philosophers. Gilson.
Three hours per week, two semesters.

## PHYSICS

hraies 1. General Physics. Introduction to Mechanics, d, Light, Heat and Electricity.
TEXT: College Physics, Stewart, (Ginn).
Lectures: Three hours a week, two semesters. Laboratory: Three hours a week, two semesters.

Threics 2. Light, Heat and Sound. Basic Physical laws reto Light, Heat and Sound are integrated and verified eperimentally.
TEXT: Sound, Light and Heat, Duncan and Starling, (Macmillan).
Lectures: Three hours a week, two semesters. Laboratory: Three hours a week, two semesters.
hysics 3. Electricity.
3a. Magnetism and Electricity. Direct and Alternating riments with a practical mathematical analysis.

3b. Electronics. A lecture and laboratory course in hich the basic principles and applications of thermionic mission are studied and investigated experimentally.
TEXTS: Elements of Electricity, Timbie, (John Wylie). An Introduction to Electronics, Hudson, (Macmillan).
Lectures: Three hours a week, two semesters.
Laboratory: Three hours a week, two semesters.
Physics 4. Theoretical Physics. Topics selected from potenFial theory, conduction of heat, diffusion, vibration, acoustics, lasticity, spectroscopy and nuclear physics.

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

Physics 5. Electrical Measurements and Electron Physics. Liberation of electrons from atoms. Emissions. Ionizations.

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

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

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

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

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

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

Physics 8. The Physical Properties of the Atom. A labort tory course to accompany Physics 7.

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

Physics 9. Physics Optics. Electromagnetic theory, interfer ence, diffraction, polarization, spectrum analysis.

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

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

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

## POLITICAL SCIENCE

The State or Body Politic as distinct from the Nation: history and determining elements. Types of States: forms Government; theories of the State, Anarchism, Socialism, Fid Socialism, Bolshevism, Fascism; the totalitarian concept government in theory and practice.
The Legislature, Executive and Judiciary in modern stitutional law; bicameral and unicameral systems; the ctorate, various methods of democratic representation; ferendum and plebiscite.

Constitutions of states; the British and American Contutions; evolution of the British Commonwealth of Nations.
International relations and international law. Treaties. The League of Nations. The Permanent Court of InternaFonal Justice. The Atlantic Charter. The Yalta Agreement. The Charter of the United Nations.

TEXT: Political Science (Revised Edition). Gettell. (Ginn). Three hours a week, two semesters.

## RELIGION

Religion 1. The Old Testament: its message for sacred hislory and for the Christian. This is chiefly concerned with an intensive reading of the Old Testament. Lectures will centre on the general rules of biblical interpretation, some problems of the Old Testament, the messianic message of its books, and the master ideas of the ancient dispensation.
The Gospels and the Life of Christ: a historical study.
TEXTS: Holy Bible.
The Life of Christ, Ricciotti (Bruce)
Three hours a week, two semesters.

Religion 2. The Church in the New Testament. This course studies the organic unity of sacred history by tracing the brigin of the Mystical Christ from the Historical Christ. The course examines Christ's foundation of His Church in the Gospels and then proceeds to a close study of the early growth of this church as recorded in the rest of the New Testament. The basic text is the Acts of the Apostles, the Epistles, especi-
ally St. Paul's, and even the Apocalypse. The approach these parts of the Bible is still historical.
Christ in His Church: Faith, Gateway of the Church-Fait as a Source of Knowledge - Supernatural Faith - Properti. and Necessity of Faith - The Rule of Faith - The Object Faith - The Catholic Church: Mystical Body of Christ - Th Doctrine of the Mystical Body Revealed and Explained - Th Church on Earth - Membership in the Church - the Jurid cal Structure of the Church-The Authority of the ChurchChurch and State. Eschatology: Death, Judgment, Heave and Hell.

## TEXT: New Testament: Knox. Teaching of the Catholic Church: Smith.

Three hours a week, two semesters.

Religion 3. First part of dogmatic theology. In this yem the student will study faith and revealed truth, an outline Catholic doctrine, the One and Triune God, the Fall and Ren demption of man, the Redeemer, Grace.

TEXT: The Teaching of the Catholic Church, Vol. 1 Smith. (Burns, Oates)
Three hours a week, two semesters.

Religion 4. The Sacraments, their institution, nature and effect. The Sacrifice of the Mass. All are related in det ${ }^{1}$ with proofs and explanations from the Scriptures, traditiot the teachings of the Fathers, the Councils.

TEXT: Channels of Redemption, Herzog, (Benziger). Three hours a week, two semesters.

## SOCIOLOGY

Man as a Social Being; complexity of Social Life; extern and internal influences on man; the Family; present-ds decadence in family life; the State; history of Occupation Society; working conditions and workers' risks; Trad Unionism and Co-operation; organized Occupational Societs International Society; the School group; Housing and Recrea

Dependency and Relief; the Defective; Delinquency; the problem and the Immigrant; Catholic Action.
TEXT: Fundamental Sociology, E. J. Ross, (Bruce).
References: Current Social Problems, Mihanovich.
Catholic Social Principles, Cronin.
Introduction to Sociology, Murray.
Current Government Publications; Papal Encyclicals.
Three hours a week, two semesters.

## STRENGTH OF MATERIALS

Simple Stresses ; Shear ; Riveted Joints; Stresses in Thin Talled Cylinders; Welds; Torsion; Shear and Moment Diamoms for Beams; Stresses in Beams; Beam Deflection; comtred 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

Sarvey 1. A preliminary course dealing with the theory, dustment, use and care of surveying instruments; fundaEental surveying methods: measurements of lines, angles, Frerences in elevation; field practice in pacing, taping, surbying of areas, differential leveling.
IEXT: Elementary Surveying, Breed and Hosmer, (John Wylie).

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

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

Survey 2. Lecture course in the mathematical treatmen circular and parabolic curves, the computation of earthw and the mathematical solution of astronomical problems volving the technique and field work for observation for tude, longitude, meridian and time.
TEXT: Elementary Surveying, Breed and Hosmer, (Joll Wylie).

Two hours a week, two semesters.

## TAXATION

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

TEXT: The Income Tax Act (Federal) and the Regylations Under The Act.
One hour a week, two semésters.

## THERMODYNAMICS

Energy in general; Thermal energy; Gases and Vapo Combustion of Fuels; Heat Transfer; Compression of Ga Utilization of Heat; Internal Combustion Engine; Ste Engine; Nozzles; Turbines; Condensers; Boilers; Power P: Cycles; Refrigeration.

TEXTS: Thermodynamics, Emswiler and Schwartz, (McGraw-Hill), Thermodynamic Properties Steam, Keenan and Keyes, (John Wiley).
Three hours a week, one semester.

## IEEGREES CINFERREI

## MAY 17, 1951

## DEGREE OF BACHELOR OF ARTS

er Edmund Blakeney

Laconia, New Hampshire

Edward Campbell

Halifax, N. S.

Gerard Chisholm . . . . . . . . . . . . . . . . . . . . . Halifax, N. S.

iam Dishlin

Halifax, N. S.

THIter John Dowd
Halifax, N. S.

John Edwards . . . . . . . . . . . . . . . . . . . . . . Eastern Passage

es Edward Houlihan

Halifax, N. S.

id Ignatius Jones
Rockingham, N.S.

and Vincent MacCormack
Glace Bay, N. S.

Laughlin MacKinnon
Halifax, N. S.

rence Joseph Patton MacLean
Mulgrave,N. S.

zmond Joseph Slaunwhite
Halifax, N. S.

## DEGREE OF BACHELOR OF SCIENCE

rald Robert Curran
Dartmouth, N. S.
acis Alfred Houlihan
Halifax, N. S.
sest Joseph Pittard
Halifax, N. S.
nes Richard Soy
Truro, N.S.

## DEGREE OF BACHELOR OF COMMERCE

hald Leo Callis
Armdale, N. S.
trick Thomas Crosby
Halifax, N. S.
-rence Edward Vincent Davies Halifax, N. S.
liam Patrick Hanrahan Halifax, N. S. uncis Joseph Laba, B.A. Halifax, N. S.
Thert Warren Napier
Halifax, N. S.
Theil John Robertson
Halifax, N. S.
forge Herbert Steele
Charlotteown, P.E.I.

## DIPLOMAS IN ENGINEERING



## DIPLOMA IN JOURNALISM

Drald Joseph Merzetti.
Saint John, N. B.

# MEIIALS And PHIZES 

MAY 17, 1951

ARTS<br>Highest Aggregate in Fourth Year Arts ........... Walter J. Dowd Gold Medal donated by His Grace Archbishop McNally<br>Highest Aggregate in Third Year Arts<br>Colin Campbell<br>Highest Aggregate in Second Year Arts Thomas Smith<br>Highest Aggregate in First Year Arts<br>Stanislaus McFa<br>\section*{COMMERCE}<br>\title{ Highest Aggregate in Fourth Year Commerce ...... Lawrence Davien<br><br>Gold Medal donated by His Excellency Bishop Leverman }<br>Highest Aggregate in Third Year Commerce<br>James E. Radfou<br>Highest Aggregate in Second Year Commerce ......... John R. MacDor<br>Highest Aggregate in First Year Commerce ........... John R. Miller<br>\section*{SCIENCE}<br>Highest Aggregate in Fourth Year Science ........... Gerald R. Curral<br>Gold Medal donated by<br>Mr. and Mrs. J. M. Inglis in memory of their son, Delisle Inglis<br>\section*{ENGINEERING}<br>Highest Aggregate in Third Year Engineering ...... John H. Merritt Gold Medal donated by Messrs. Henry Birks \& Sons<br>Highest Aggregate in Second Year Engineering ...... Donald C. Burta Highest Aggregate in First Year Engineering ....... James A. Scrivilu<br>\section*{RELIGION}<br>Highest Four Year Aggregate ......................... John E. Campl<br>Gold Medal donated by<br>Rt. Rev. William Burns, V.G., D.P.


[^0]:    Inglish 1
    French 1
    Inurnalism 1
    Ttory 2
    iistory of Science
    chilosophy 1
    Beligion 1

[^1]:    Fistory 3. Modern History. 1815-1914 A.D. The era of Metternich, 1815-1830, Congress of Vienna; the Industrial Sevolution; Democratic Reform; Revolutions of 1848; the frowth of Nationalism; Karl Marx and Modern Socialism; Enarchism and Syndicalism; Great Britain and Ireland; Latin Europe; Teutonic Europe; the Russian Empire; dismemberment of the Ottoman Empire; the New Imperialism; European

