

CALENDAR  
OF  
DALHOUSIE UNIVERSITY

HALIFAX, NOVA SCOTIA

1913-1914



HALIFAX:  
PRINTED FOR THE UNIVERSITY BY McALPINE PUBLISHING Co., LTD.  
1913.

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TIME TABLE—FACULTY OF ARTS AND SCIENCES

1913-14

| Month | Monday   | Tuesday   | Wednesday  | Thursday   | Friday   | Saturday  |
|-------|--|---|--|--|--|---|
| 9     | Chem. 1, 1 A.<br>Kinematics<br>Physics 1, 1B<br>German 3                         | Chem. 2, 2, 4<br>Drawing 1<br>French 2<br>Greek 1   | Chem. 1, 1 A.<br>Evolution<br>Physics 1, B<br>French 3                           | Chem. 2, 2<br>Phil. 2<br>Drawing 1<br>French 2<br>Greek            | Chem. 1, 1 A.<br>Kinematics<br>Physics 1, 1 B<br>French 3          | Geol. 1 & Lab.<br>Surveying<br>Bot. 1<br>Greek 1                        |
| 10    | Elem. Latin<br>Latin 2<br>History 1<br>Inst. 1, 1 A.<br>Surveying                | Latin 2<br>French 1<br>Drawing 1<br>Phil. 1   | Elem. Latin<br>Latin 2<br>History 1<br>Geology 1, 1 A<br>Surveying               | Latin 2<br>French 1<br>Drawing 1<br>Phil. 1                        | Elem. Latin<br>Latin 2<br>History 1<br>Geology 1, 1 A<br>Surveying | Elem. Latin<br>Latin 2<br>Biology 1<br>Geol. 1 A, Lab.<br>Phil. 1       |
| 11    | Latin 2<br>Math. 4<br>Drawing 2 (W)<br>Chem. 1 B<br>Drawing 1 (P)<br>Economics 1 | Greek 2<br>Math. 3<br>Mechanics<br>Biology 1<br>Chem. 1 B<br>Drawing 1 (P)<br>Economics 2 | Latin 1<br>Math. 4<br>Drawing 2 (W)<br>Chem. 1 B<br>Drawing 1 (P)<br>Economics 2 | Greek 2<br>Math. 3<br>Mechanics<br>Chem. 1 B<br>Drawing 1 (P)      | Latin 1<br>Math. 4<br>Drawing 2 (W)<br>Chem. 1 B<br>Drawing 1 (P)  | Geol. 1 A, Lab.<br>Surveying<br>Biology 1<br>Chem. 1 B<br>Drawing 1 (P) |
| 12    | Elem. Greek<br>English 2<br>Physics 1 A<br>Math. 1                               | Greek 4<br>Math. 3<br>English 1<br>Biology 1  | Elem. Greek<br>Math. 2<br>English 1<br>Physics 1 A                               | Greek 4<br>Math. 3<br>English 1<br>Math.                           | Elem. Greek<br>English 2<br>Physics 1 A<br>Math.                   | Surveying<br>Elem. Greek<br>Geol. 1 A, Lab.                             |
| 1     | Phil. 2<br>Physics 2<br>German 1   | Drawing 1<br>Chem. 2, 4, Lab<br>French 1<br>Economics 1                                   | Phil. 2<br>Physics 6<br>German 2<br>Economics 1                                  | Drawing 1<br>Chem. 2, 4, Lab<br>French 1<br>Economics 1            | Surveying (P)<br>Chem. 2, 4, Lab<br>German 1<br>Geology 1, Lab     |   |
| 2     | Chem. 1 A, Lab.<br>Physics 6<br>Elem. German<br>Phil. 2<br>English               | Chem. 2, 4, Lab.<br>Drawing 1<br>History 2<br>Phil. 2<br>English 4                        | Chem. 1 A, Lab.<br>Physics 6<br>Elem. German<br>Phil. 2<br>English 4             | Chem. 2, 4, Lab.<br>Drawing 1<br>History 2<br>Phil. 2<br>English 4 | Surveying (P)<br>Elem. German<br>Drawing 1 (W)<br>Geol. 1 Lab      |   |
| 4     | Chem. 1 A, Lab.<br>Phys. 6<br>Phys. 6  | Chem. 2, 4, Lab.<br>Drawing 1   | Chem. 1 A, Lab.<br>Phys. 6<br>Phys. 6  | Chem. 2, 4, Lab.<br>Drawing 1                                      | Surveying (P)<br>Drawing 1 (W)                                     |   |

The hours for classes not mentioned in this schedule will be assigned to suit those taking them. (W) Winter term only. (P) Fall term only.

|  |             |                                      |             |
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## UNIVERSITY ALMANAC, 1913-14

1913

- Aug. 14. Th.—Last day for receiving applications for Autumn Preliminary Examination (Prov. Med. and Dent. Boards.)  
 \*Last day for receiving applications for Supplementary Examinations. (Medical and Dental Faculties.)
20. W.—Last day for receiving applications for Autumn Professional Examination (Prov. Med. and Dent. Boards.)
26. Tu.—9 a. m. Session begins, Supplementary Examinations begin. (Medical and Dental Faculties.)
28. Th.—9 a. m. Preliminary Examination begins. (Prov. Med. and Dent. Boards.)
30. S.—\*Last day for receiving applications for Supplementary and Special Examinations. (Faculty of Arts and Science.)
- Sept. 2. Tu.—Results of Preliminary Examination declared and certificates issued. (Prov. Med. and Dent. Boards.)  
 Registration and payment of Fees, 11 a. m. (Medical and Dental Faculties.)
3. W.—Lectures begin in Faculty of Medicine, and for 1st, 2nd, and 3rd year students in Faculty of Dentistry.  
 Autumn Professional Examinations begin. (Prov. Med. and Dent. Boards.)
11. Th.—Last regular day for registration in Faculty of Medicine and for 1st, 2nd, and 3rd year students in Faculty of Dentistry.  
 Last day for receiving applications for Matriculation and Scholarship Examinations.
12. F.—Matriculation Examinations begin (Medical and Engineering) Supplementary and Special Examinations in Faculty of Arts and Science begin (The schedule will be passed on the notice board).  
 Schedule for Matriculation Examinations:—  
 9 a. m. Latin.  
 3 p. m. Greek.
13. S.—9 a. m. German; Engineering German.  
 3 p. m. History and Geography.
15. M.—9 a. m. English; Engineering English.  
 3 p. m. French; Engineering French.
16. Tu.—9 a. m. Geometry and Trigonometry; Engineering Mathematics.  
 3 p. m. Arithmetic and Algebra.
17. W.—10 a. m. Meeting of Faculty of Arts and Science.  
 2 p. m. Registration and payment of fees begin. (Faculty of Arts and Science.)
19. F.—9 a. m. Lectures begin in Faculty of Arts and Science.
23. Tu.—Last regular day for registration in Faculty of Arts and Science.
- 29.—Tu.—Session begins for 4th year dental students.
- Oct. 1. W.—Last regular day for registration of fourth year dental students.  
 Intimation as to elective subjects to be made by students on or before this day. (Faculty of Arts and Science.)
7. Tu.—\*Last day for receiving applications for Supplementary Examinations. (Faculty of Law.)

- Oct. 14. Tu.—10 a. m. Session begins, registration and payment of fees. (Faculty of Law.)  
 2 p. m. Supplementary Law Examinations.
15. W.—Lectures begin in Faculty of Law.  
 Returns as to residence and church attendance to be made on or before this day.
21. Ts.—Last regular day for registration in Faculty of Law.  
 M.—Thanksgiving Day. No lectures.  
 Tu.—Mourning Day. No lectures.
- Dec. 13. S.—Last day of Lectures. (Faculty of Arts and Science.)  
 \*Last day for receiving applications for Special Examinations. (Faculty of Arts and Science.)
15. M.—9 a. m. Christmas Examinations begin, in all subjects in the Faculty of Arts and Science and in certain subjects in the Faculties of Medicine and Dentistry. (See Notice Board.)
20. Sa.—Last day of Lectures. (Faculties of Law, Medicine and Dentistry.)
22. M.—9 a. m. Christmas Vacation begins.
- 1914
- Jan. 4. Tu.—9 a. m. Lectures resumed.  
 Special Examinations begin. (Faculty of Arts and Science.)
- Feb. 25. W.—Ash Wednesday. No Lectures.
- March 2. M.—Last day for receiving theses for Master of Arts or Master of Science degree.
31. Tu.—Last day for receiving applications for Professional Examinations. (Dental Faculty and Prov. Dental Board.)
- April 1. W.—Last day for receiving applications for all M. D., C. M., Professional Examinations, and for Spring Professional Examinations (P. M. Board.)
8. W.—Last day of Lectures. (Faculty of Medicine.)
9. Th.—5 p. m. Tickets of admission to Examinations issued to those qualified to enter on presentation of Examination Fee receipts. (Medical Faculty.)
10. F.—Good Friday. No Lectures.
11. S.—Last day of Lectures. (Faculties of Arts and Science, and of Dentistry.)  
 M. D., C. M. Professional Examinations begin.
12. M.—Spring Examinations begin (Faculties of Arts and Science, and of Dentistry.)  
 Spring Professional Examinations (Prov. Dental Board) begin.
15. W.—Last day of Lectures. (Faculty of Law.)  
 Final M. D., C. M. Degree Examinations and Spring Professional Examinations (P. M. Board) begin.
16. Th.—Sessional and Supplementary Examinations begin. (Faculty of Law.)
24. F.—10 a. m. Results of P. M. Board Professional Examinations declared.
27. M.—9 a. m. Meeting of Faculty of Arts and Science.  
 4 p. m. Meeting of Faculty of Law.  
 8 p. m. Meeting of Faculty of Dentistry.
28. Tu.—9 a. m. Meeting of Senate.  
 4 p. m. Meeting of Faculty of Medicine.
29. W.—9 a. m. Meeting of Senate.  
 11 a. m. Results of all examinations declared.
30. Th.—5 p. m. Convocation.
- May 7. Th.—9 a. m. Spring Preliminary Examination (P. M. Board) begins.

\*Fee must accompany Application for Examination.



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- KENNETH ANSON MACDONALD, M. D., C. M., (Dal.), *Lecturer on Medicine and Demonstrator of Anatomy*; 74 Gillingham Street.

- PHILIP WEATHERS, M. B., Ch. B., (Edin.), *Lecturer on Surgery and Demonstrator of Operative Surgery*; 144 Spring Garden Road.
- EDWARD BLACKBURN, M. A., (Lond.), M. D., C. M., (Dal.), *Lecturer on Medical Jurisprudence*; 150 South Street.
- CARLETON ELLI NICKERSON, A. M., (Clark), *Instructor in Chemistry*; 115 South Park Street.
- ROBERT EVATT MATHERS, M. D., (New York), *Lecturer on Diseases of the Eye, Ear, Nose and Throat*; 341 Morris Street.
- J. H. L. JOHNSON, B. Sc., (Dal.), *Instructor in Physics*.
- J. L. POTTER, M. D., C. M., (Dal.), C. P. A. M. C., *Lecturer on Hygiene*.
- MURDOCH ALEXANDER MACATLAY, M. D., C. M., (Dal.), *Demonstrator of Anatomy*; 327 Brunswick Street.
- LEWIS THOMAS, M. D., C. M., (Dal.), M. B., C. S., (Eng.), L. R. C. P., (Lond.), *Demonstrator of Practical Surgery*; 220 Brunswick St.
- E. M. McLEOD, M.Sc., N. S. Pharm. Sc., *Demonstrator of Practical Materia Medica*.
- JOHN BANKING, B. A., M. D., C. M., (Dal.), *Assistant Demonstrator of Anatomy*; Kaye and Albert Streets.
- G. A. MACINTOSH, M. D., C. M., (Dal.), *Demonstrator of Physiology*; 546 Robie Street.

*Secretary of the Faculty*: DR. LINDSAY.

## CORRESPONDENCE SHOULD BE ADDRESSED—

The Secretary, Faculty of Medicine,  
Dalhousie University, Halifax, N. S.

## FACULTY OF DENTISTRY

- A. STANLEY MACKENZIE, B. A. (Dal.), Ph. D. (J. H. U.), D. C. L. (Vind.), F. R. S. C.  
*President of the University.*
- HUBERT WOODSLEY, D. D. S. (P. D. C.).  
*Lecturer in Prosthetic Dentistry.*
- A. W. H. LEIDNAY, B. A., M. D., C. M. (Dal.), M. B., S. C. M. (Edin.).  
*Professor and Examiner in Anatomy.*
- FRANK WOODSLEY, D. D. S. (P. D. C. S.).  
*Lecturer and Examiner in History, Ethics, and Jurisprudence.*
- A. W. OSOBY, M. D., C. M. (Hel. M. C.), D. D. S. (U. of P.).  
*Professor and Examiner in Dental Pathology and Therapeutics.*
- G. H. FLYNN, D. D. S. (P. D. C.).  
*Lecturer in Prosthetic Dentistry.*
- F. W. RYAN, D. D. S. (U. of M.).  
*Professor and Examiner in Operative Dentistry.*
- R. MACRAE, B. A. (Dal.), Ph. D. (J. H. U.).  
*Assistant Professor and Examiner in Chemistry and Metallurgy.*
- G. K. THOMPSON, D. D. S. (P. D. C.).  
*Professor and Examiner in Crown and Bridge Work, Ceramics and Prosthodontics.*
- W. H. H. HICKWITH, D. D. S. (U. of P.).  
*Lecturer in Operative Dentistry.*
- HOWARD L. HENNING, Ph. D. (Yale).  
*Visiting Professor and Examiner in Physics.*
- R. G. HITCHER, B. A. (U. N. B.), D. M. D. (T. D. C.).  
*Professor and Examiner in Prosthetic Dentistry.*
- W. C. OSNEE, D. D. S. (W. C. D. S.).  
*Lecturer in Crown and Bridge Work and Ceramics.*
- R. E. MACDONALD, D. D. S. (P. D. C.).  
*Lecturer in Operative Dentistry.*
- F. V. WOODSLEY, M. D., C. M. (Dal.), L. H. C. S. and L. R. C. P. (Edin.), L. T. P. S. (Glas.).  
*Professor and Examiner in General and Oral Surgery and Anæsthetics.*
- W. W. WOODSLEY, B. Sc. (Dal.), D. D. S. (P. D. C.).  
*Professor and Examiner in Orthodontia.*
- A. F. BOCKLEY, M. D., C. M. (Dal.), Ph.D. (Mont.).  
*Professor and Examiner in Materia Medica.*
- DAVID FRASER HARRIS, M. B., C. M., M. D. (Glas.), B. Sc. (Lon.), D. Sc. (Hib.), F. R. S. E.  
*Professor and Examiner in Physiology and Histology.*
- R. H. WOODSLEY, D. D. S. (P. D. C.).  
*Lecturer in Prosthetic Dentistry.*
- M. A. LEIDNAY, B. Sc. (Dal.), M. B., Ch. B. (Edin.).  
*Professor and Examiner in Pathology and Bacteriology.*
- W. H. ENGER, M. D., C. M. (McGill).  
*Lecturer in Radiology.*
- DR. F. W. RYAN,  
DR. G. K. THOMPSON,  
DR. W. C. OSNEE,  
DR. W. W. WOODSLEY,  
DR. R. H. WOODSLEY,  
DR. S. G. RITCHIE,  
*Demonstrators in Dental Subjects.*
- O. GARDNER,  
*Assistant Demonstrator in Prosthetic Dentistry.*
- C. B. NICKERSON, M. A. (Clark Univ.).  
*Instructor in Chemistry.*
- J. H. L. JOHNSTONE, B. A. (Dal.).  
*Instructor in Physics.*
- M. A. MACAULAY, M. D., C. M. (Dal.).  
K. A. MACKENZIE, M. D., C. M. (Dal.).  
J. RANKINE, M. D., C. M. (Dal.).  
*Demonstrators in Anatomy.*
- DEAN OF FACULTY, DR. FRANK WOODSLEY, 318 PEASEBURY ST., HALIFAX, N. S.  
RECORDING SECRETARY OF FACULTY: DR. F. W. RYAN.

All correspondence should be addressed to the Dean.

## Dalhousie University

## INTRODUCTION

## Historical Sketch

DALHOUSIE COLLEGE was founded in 1818 by the Right Honourable George Ramsay, ninth Earl of Dalhousie, "for the education of youth in the higher branches of science and literature."

The original endowment was derived from funds collected at the port of Castine, Maine, during its occupation in 1814 by Sir John Sherbrooke, then Lieutenant-Governor of Nova Scotia. In a letter to Lord Bathurst, dated December 14th, 1817, Lord Dalhousie, with the unanimous consent of the Council, proposed that £9,750 of these funds be devoted to the "founding of a College or Academy on the same plan and principle as that in Edinburgh," "open to all occupations and sects of religion, restricted to such branches only as are applicable to our present state, and having the power to expend with the growth and improvement of our society," and that this College be established in Halifax, "the seat of the legislature, of the courts of justice, of the military and the mercantile society." On the 6th of February, 1818, Lord Bathurst wrote expressing the Prince Regent's "entire approval of the application of the funds in question in the foundation of a Seminary in Halifax for the higher classes of learning." The building was begun in 1819, and on the 22nd of May, in the year 1820, the corner stone was laid by the Earl of Dalhousie. On the 13th of January, 1821, an "Act to incorporate the Governors of Dalhousie College at Halifax" became law. The original Board consisted of the Governor-General of British North America, the Lieutenant-Governor of Nova Scotia, the Bishop, the Chief-Justice, the President of the Council, the Treasurer of the Province, the Speaker of the House of Assembly, and the President of the College.

After unsuccessful efforts in 1822-4 and 1829-36 on the part of both the British Government and the Board of Governors to effect a union with King's College, at

that time the only other existing in the Province, Dalhousie College went into operation in 1838, with the Rev. Thomas McCulloch, D. D., as President.

In 1841 an Act was passed conferring university powers upon the College, and vesting the appointment of the Governors in the Governor and Council. Two years later President McCulloch died, and in 1845 the College was closed, the Governors considering it "advisable to allow the funds of the institution to accumulate." From 1849 to 1859 the College funds were employed to support a High School. Toward the end of this period, in 1856, the Arts department of Gorham College, Liverpool, supported by the Congregationalists, was transferred to Dalhousie, "with a view to the furtherance of the establishment of a Provincial University"; and for a short time an attempt was made to conduct the institution as a University under the Act of 1841.

The history of Dalhousie College as an institution realizing the purpose of its Founder may be dated from 1863. In that year the College was reorganized under an Act which empowered the Board of Governors to grant to any body of Christians, or any individual, or number of individuals, the privilege of nominating a representative to the Board, and a Professor, for every chair in the College supported by them to the extent of twelve hundred dollars a year. In consequence of this provision, the Presbyterian Church of Nova Scotia closed its academies at Truro and Halifax, and undertook the support of two chairs; and the Church of Scotland in Nova Scotia, having no institution of its own, endowed one chair—the Chair of Mathematics. Thus strengthened, the College opened in the Autumn of 1863 with a staff of six professors, the Rev. James Ross, D. D., being Principal. At the death of the incumbents of the two chairs supported by it, the Presbyterian Church withdrew its support.

In 1879 Mr. George Munro, of New York, endowed the Chair of Physics, and in rapid succession Chairs of History and Political Economy, English Literature, Law, and Metaphysics. He also supported tutorships in Classics and Mathematics, and for ten years provided liberal exhibitions and bursaries. His munificent gifts were at that time unparalleled in Canada.

In 1882 Mr. Alexander McLeod, of Halifax, left the residue of his estate to endow the three chairs now known as the McLeod Chairs of Classics, of Modern Language, and of Chemistry.

The purchase of the old College building by the City and the generous gift of \$20,000 by Sir William Young, for over forty years Chairman of the Board of Governors, led to the erection of a new building, the corner stone of which was laid by Sir William on the 27th of April, 1887. The gifts of Sir William Young to the College subsequent to its reorganization exceeded \$68,000.

In 1890, Mr. John P. Mott, of Halifax, left a bequest of \$10,000 to the College.

In 1902 the School of Mines was established, and in the same year the Alumni began a movement to erect a Library in memory of the late Professor Macdonald. For these two purposes subscriptions to the amount of about \$80,000 were obtained.

In 1912 a canvass for funds to pay for the purchase of the Studley estate, which had been lately acquired as a new site for the University, and to erect the necessary new buildings and increase the endowment, brought in subscriptions of more than \$420,000.

The Faculty of Medicine was organized in 1868; merged into the Halifax Medical College in 1875; and re-organized as an examining faculty in 1885. In 1911, the University purchased the property of the Halifax Medical College, and undertook the provision of instruction in all the subjects of the medical curriculum.

The Faculty of Science was organized in 1877, and re-organized in 1891. In 1906 the Faculty was divided, the department of Pure Science uniting with the Faculty of Arts to form the Faculty of Arts and Science, and the department of Applied Science becoming the Faculty of Engineering. On the opening of the Nova Scotia Technical College in 1909, the Faculty of Engineering was discontinued.

The Faculty of Law was established in 1883.

The Faculty of Dentistry was organized in 1908, in affiliation with the Maritime Dental College, which provided instruction in the professional dental subjects. In 1912 the Dental College discontinued its work, and instruction in all subjects of the curriculum is now carried on by the Faculty of Dentistry.

### Constitution

THE BOARD OF GOVERNORS is the supreme governing body of the University. Appointments to it are made by the Governor-in-Council on the nomination of the Board,

or on the nomination, with the approval of the Board, of any body of Christians, or of any individual, or number of individuals, supporting a chair in the College. Any such body or individual is entitled to one representative Governor for each chair so supported. The Governors have the management of the funds and property of the College; the power of appointing the President, Professors, and other officials, and of determining their duties and salaries; and the general oversight of the work of the University.

THE SENATE consists of the President and Professors. To this body are intrusted, by statute, the internal regulations of the University, subject to the approval of the Governors. All degrees are conferred by the Senate.

THE FACULTIES are committees to which are intrusted by the Senate, subject to its approval, the supervision of the teaching of the University, the preparation of regulations governing the courses of study, and the recommendation of suitable candidates for prizes, scholarships, diplomas, and degrees. The University contains Faculties of Arts and Science, Law, Medicine, and Dentistry.

### Degrees and Courses

The Senate confers the degrees of Bachelor and Master of Arts, Bachelor and Master of Science, Bachelor of Music, Bachelor of Laws, Bachelor of Pharmacy, Doctor of Medicine and Master of Surgery, and Doctor of Dental Surgery. A course in Music for the diploma of Licentiate of Music is also prescribed.

The degree of Doctor of Laws may be conferred *honoris causa* in recognition of eminent literary, scientific, professional, or public services.

The various Faculties of the University provide the instruction required in the courses leading to the above degrees, except in Music, and in Pharmacy. In Music instruction is provided in the literary and scientific subjects required, and the University recognizes as qualifying for a degree the instruction in professional subjects given by the Halifax Conservatory of Music or other approved institutions. In Pharmacy the University provides instruction in pure science, and recognizes the teaching in professional subjects of the Nova Scotia College of Pharmacy, or other approved institutions.

ENGINEERING COURSES.—Courses in Engineering are offered in the Faculty of Arts and Science. These courses

extend over two years and correspond to the work prescribed by the Nova Scotia Technical College for the first two years of four-year courses in Civil, Mechanical, Electrical, and Mining Engineering.

AFFILIATED COURSES.—By a proper selection of elective subjects in his course, a candidate may reduce by one year the time required for the degree of Bachelor of Arts and a professional degree in Law. Similarly a candidate for Bachelor of Arts or Bachelor of Science may reduce by two years the time required for the combined degrees in Arts or Science and Medicine.

A candidate for the degree of Bachelor of Arts or Bachelor of Science may shorten by two years a subsequent course for a degree in Engineering.

PRIVILEGES.—The usual privileges of exemption from the preliminary examination, granted to graduates of recognized universities by the learned professions in Canada and Great Britain, are extended to this University.

The University of Oxford exempts from Responsions an undergraduate in Arts of this University who has passed in the subjects (including Greek) of the second or a higher year. A Bachelor of Arts with Honours, is further exempted from four terms of residence. The Trustees of the Rhodes Scholarships exempt from the qualifying examination candidates who are exempted from Responsions by the University of Oxford.

Of the seven courses required by the University of Edinburgh for the degree of B. Sc. in Pure Science, three may be taken in this University; and of the seven courses required for the B. Sc. in Engineering, two may be taken in this University, subject to certain conditions.

The University of London exempts Bachelors of Laws of this University from the Preliminary Examination leading to the LL. B. of that University.

Graduates in law of this University are admitted to the Bar of Nova Scotia without further examination, except in Procedure and Practice.

The degree in Medicine from this University is recognized as entitling to the privileges usually granted to graduates in Medicine of Canadian Universities. Graduates of this University in Medicine and Surgery who hold the License of the Provincial Medical Board may, on application, be placed on the Colonial List of the British Medical Register.

## Equipment

### LIBRARIES.

The University possesses a University Library, open to all registered students, and a Law Library for the use of the students and instructors in the Faculty of Law.

The University Library was instituted in 1807, as the result of an appeal made by the Rev. George M. Grant, at Convocation. Until 1888 the number of volumes did not exceed 3,000; to-day there are about 15,000 volumes and 4,000 pamphlets, selected primarily to meet the needs of students in the Faculty of Arts and Science.

The University Library contains the **MACKENZIE COLLECTION** of works on Mathematical and Physical Science, which was presented to the College by the relatives of the late Professor J. J. MacKenzie; the **ROBERT MORROW COLLECTION** of works on Northern Antiquities and Languages, presented by Mrs. Robert Morrow; the **SETH COLLECTION** of Philosophical works, purchased with the proceeds of a course of public lectures on Psychology given by Professor James Seth; the **DE MILLE MEMORIAL**, presented by Professor MacMechan from the proceeds of two courses of Lectures on Shakspeare; the **LAWSON LIBRARY**, presented by the daughters of the late Professor George Lawson, LL. D.; the **MCCULLOCH COLLECTION**, from the Library of the late Rev. W. McCulloch, D. D.; the **EDWIN P. ROBINS MEMORIAL COLLECTION** of Philosophical books; the **MACDONALD COLLECTION**, presented by the son of the late Professor Charles Macdonald, M. A.; the **DE MILLE COLLECTION**, presented by Mrs. J. DeMille; the **HARRINGTON COLLECTION**, presented by the family of the late Emily Harrington, M. A.; the **FRASER COLLECTION**, presented by the family of the late A. H. B. Fraser, LL. B.; the **FORREST COLLECTION**, presented by the Rev. Dr. Forrest; also the **CLASS MEMORIAL COLLECTIONS**, presented by the graduating classes of 1894 and subsequent years.

When the Law Faculty was organized in 1883, the Dean received a number of very generous contributions for a Library. A useful collection of Law books was secured, partly through the exertions of the late J. T. Bulmer. To-day the Law Library contains more than 8,000 volumes, including all the law reports which a student will find it necessary to consult.

Besides the libraries in the University, students may use, subject to certain conditions, the following libraries:—The Science Library, the Library of the Mining Society of

Nova Scotia, the Legislative Library, the Citizens' Free Library, and the Library of the Presbyterian Theological College. The Cogswell Medical Library in the Medical College is open to students of Medicine.

The University Library is in charge of a library committee appointed by the Senate, and a librarian. The Law Library is in charge of the Dean of the Law Faculty, assisted by a librarian.

### THE MUSEUM.

The Museum consists chiefly of the **THOMAS MCCULLOCH**, the **PATTERSON** and the **HONEYMAN COLLECTIONS**.

The **THOMAS MCCULLOCH COLLECTION**, presented by the late Rev. William McCulloch, D. D., of Truro, contains a large and valuable collection of birds, especially native species of the Maritime Provinces, besides many mineral, rock and fossil specimens, shells of recent mollusca, Indian implements, etc. The fossil specimens include a collection of European cretaceous fossils and of carboniferous fossils, chiefly Nova Scotian. The collection of birds is supplemented by the valuable collection made by Col. T. J. Egan, of Halifax, containing thirty cases of native birds.

The **PATTERSON COLLECTION** of Indian antiquities was made by the late Rev. George Patterson, D. D., LL. D., F. R. S. C., and presented by him to the University. It contains 280 specimens, catalogued and conveniently arranged for reference, including about 250 specimens relating to the aborigines of Nova Scotia.

The **HONEYMAN COLLECTION** consists of the extensive geological collection made by the Rev. David Honeyman, D. C. L., F. S. A., for some years Professor of Geology in Dalhousie College, and was presented by Dr. Honeyman's relatives.

The Honeyman collection and the portion of the McCulloch collection illustrating Geology and Mineralogy, are placed in the Geological Laboratory.

The Zoological section of the Museum was catalogued by the late Dr. Andrew Halliday, Lecturer in Zoology from 1899 to 1903.

The collections of the Provincial Museum, illustrating the Geology, Mineralogy and Zoology of the Province, may be conveniently used by students.

### LABORATORIES.

The University is equipped with laboratories in the departments of Physics, Chemistry, Biology, and Geology

and Mineralogy, besides the laboratories of the Medical and Dental Schools. Facilities for research are provided for a limited number of students in Physics, Chemistry, Biology, and Geology. Reports of the researches carried out by students appear from time to time in the Transactions of the Nova Scotian Institute of Science and other scientific publications.

THE PHYSICAL LABORATORY comprises a general laboratory affording accommodation for 16 students working simultaneously, a room for electrical work, and a number of smaller adjoining rooms for research work and storage.

THE CHEMICAL LABORATORY includes a general laboratory fitted with lockers for 85 students, and a quantitative laboratory accommodating 16 students, with additional rooms for weighing and for storing apparatus and reagents.

THE GEOLOGICAL LABORATORY occupies a large general laboratory and two small adjacent rooms, one of which is fitted for photographic work. The laboratory contains good collections, constantly being added to, of typical rock and mineral specimens, as well as collections of crystals, crystal models, geological maps, etc., for class instruction.

THE BIOLOGICAL LABORATORY accommodates about 25 students doing simultaneous work. It is well provided with apparatus for undergraduate work in Biology.

## ADMISSION

### Classification

Students are classified as Graduate Students, Undergraduates, Matriculants and Special Students.

GRADUATE STUDENTS are students who hold a Bachelor's degree in Arts or Science and are pursuing a course of study in Arts or Science for a Master's degree.

UNDERGRADUATES are students who have passed the Matriculation and are candidates for a Bachelor's degree in Arts or Science or a degree in a professional course.

MATRICULANTS are students who have passed in at least three subjects of Matriculation but have not completed it, and are pursuing a course of study for a degree.

SPECIAL STUDENTS are all not included in one of the preceding groups.

## Admission of Students

Women are admitted to classes under the same condition as men.

No person under sixteen years of age is admitted to any class.

Persons of good moral character, may be admitted to certain classes as Special students without formal examination, provided they are deemed qualified by the Committee on Admission to profit by the work of the class or classes selected. A person seeking admission as a Special student, if under nineteen years of age, must submit evidence, such as a certificate from the school last attended, that he has a satisfactory knowledge of English and that his other requirements and habits of study are such as should qualify him to profit by the work of the class or classes he wishes to enter.

The classes attended by a Special Student are not recognized as qualifying for a degree.

Students entering as Matriculants are admitted to such classes of a course for a degree as are permitted by the regulations of the Faculty in which they are studying. (See regulations of the different Faculties.)

Students entering as Undergraduates are admitted to all classes of the first year of any course in any Faculty.

## Matriculation

All candidates for a degree must satisfy the requirements for Matriculation, either by passing the Matriculation examination or by presenting certificates which will be accepted as equivalent.

The Matriculation examination will be held at the University, and at such other places as the Senate may appoint, on September 12th to 16th, 1913. For the timetable of the examination see the University Almanac (p. iv.)

Candidates for the Matriculation examination must make application either by letter or in person, specifying the subject or subjects in which they wish to appear for examination.

*The last day for receiving applications is Thursday, September 11th, 1913.*



### I. MATRICULATION IN ALL EXCEPT ENGINEERING CLASSES.

Candidates for a degree in Arts, Science, Music, Pharmacy, Law, Medicine, or Dentistry are required to pass in six subjects as follows:

1. English.
2. History and Geography.
3. Arithmetic and Algebra.
4. Geometry and Trigonometry.

5 and 6. Two foreign languages determined for the several degrees as in the following table:—

| SUBJECT | FOR DEGREES IN ARTS, PHARMACY,<br>LAW, MEDICINE AND DENTISTRY. | FOR DEGREES IN<br>SCIENCE AND MUSIC |
|---------|--|-------------------------------------|
| 5       | Latin  | French                              |
| 6       | Greek or French or German                                      | German                              |

#### REQUIREMENTS IN EACH SUBJECT.

The requirements in each of the subjects specified above are as follows:

**ENGLISH.**—*Language*: Grammar, analysis, parsing. *Composition*: An essay on one of several set subjects to be selected from:—*Masculay, Warren Hastings*; *Shakespeare, Merchant of Venice*; *Longfellow, Evangeline*; *Scott, The Lady of the Lake*.

Questions on the interpretation of a passage not specified, to test general intelligence.

*Note*.—The essential part of this examination is the essay. Legible writing, correct spelling and punctuation, will be considered indispensable. Skill shown in sentence and paragraph construction will be awarded high marks. Not more than one of the works named need be read. It should be read primarily for the story, and need not be studied minutely, as a choice is allowed among at least four themes selected from the works named.

**HISTORY AND GEOGRAPHY.**—Outlines of English and Canadian History, and General Geography.

**ARITHMETIC AND ALGEBRA.**—*Arithmetic, Algebra*: As in Hall and Knight's *Elementary Algebra*, or Todhunter and Loney's *Algebra for Beginners*, or Wentworth's *Algebra*.

**GEOMETRY AND TRIGONOMETRY.**—Euclid, Books I, II, III, IV. Trigonometry to end of the solution of right-angled triangles as in Murray's *Practical Mathematics*, or an equivalent.

**LATIN.**—The paper will contain (1) passages for translation from prescribed books with questions arising out of those books; (2) easy passages for translation from books not prescribed; (3) questions on grammar, accidence and elementary syntax; (4) translation of easy sentences from English into Latin.

The books prescribed are: *Cæsar, Gallic War, Book I*; and *Virgil, Æneid, Book I*.

**GREEK.**—The paper will contain (1) passages for translation from a prescribed book with questions arising out of that book; (2) easy passages for translation from books not prescribed; (3) questions on grammar, accidence and elementary syntax; (4) translation of easy sentences from English into Greek.

The book prescribed is *Xenophon, Anabasis, Book I*.

**FRENCH.**—*Knaut, Le Chien du Capitaine*; *Perret, The Matriculation French Reader (W. R. Olive)*, prose selections only; questions in grammar as in *Fraser and Squair's French Grammar* to the end of section 344, with exercises; easy sight translation from French into English and from English into French.

**GERMAN.**—*Buchheim, Modern German Reader, Part I*; *Von Hillern, Wecker als die Kirche*. Grammar questions limited to accidence and easy rules of syntax; easy sight translation from German into English and from English into German.

Candidates who pass in three or more subjects, but fail to pass the examination as a whole, will be exempted from such subjects, should they appear as candidates on any subsequent occasion.

#### CERTIFICATES EXEMPTING FROM EXAMINATION.

Candidates who hold the following diplomas, licenses or certificates are exempted from the above examination in subjects which were included in the examination by which such diploma, license or certificate was obtained, and in which a sufficiently high standard was reached, provided this standard was reached in three or more of the subjects required for Matriculation.

(a) Certificates of Matriculation into recognized Universities.

(b) High School Certificates of Grades XII or XI of Nova Scotia.

(c) Honor Diplomas, or Certificates entitling to a First Class License, as issued by Prince of Wales College, or a First Class License issued by the Education Department of Prince Edward Island.

\*The certificates of Grade XI standard, issued by the Education Department of Nova Scotia in 1910 and subsequent years, are accepted for the Matriculation subjects which they cover, provided the average mark obtained in these subjects is at least 60 per cent, and the minimum mark not less than 50 per cent. The minimum mark accepted in English is 60 per cent, and no certificate is accepted unless the required standard is reached in at least three subjects. For the present the percentages required in certificates issued prior to 1910 is 50 in each subject. When any one of the subjects specified above as required for Matriculation is divided in the certificate examination into two or more parts, the average mark for each part is taken as the mark obtained for the subject. Marks obtained in the subjects other than those required for Matriculation are not considered. A mark of 40 per cent in a subject received on a Grade XII Certificate will exempt from Matriculation in that subject.

- (d) Grammar School, or Superior (except in Latin), or First Class License of New Brunswick.
- (e) Equivalent Licenses or Certificates issued by Education Departments of other Provinces.
- (f) Diplomas of the Associate Grade as issued by the Education Department of Newfoundland.

The Faculty of Law, in addition to the foregoing certificates, etc., will accept as the equivalent of Matriculation, a certificate stating that the candidate has passed the Preliminary Law examination in any of the Provinces of Canada, or in Newfoundland, or in any of the British West India Islands.

The Faculty of Medicine will accept only those certificates which are recognized by the Provincial Medical Board as equivalent to their Preliminary examination.\*

## II. MATRICULATION IN ENGINEERING

Candidates for Matriculation in Engineering are required to pass in each of the following subjects:

1. English.
2. History and Geography.
3. Mathematics.
4. French or German.
5. One of the following:
  - (a) Additional work in the language selected as subject 4.
  - (b) Latin.
  - (c) Greek.

### REQUIREMENTS IN EACH SUBJECT.

The requirements in each of the subjects specified above are as follows:

1. ENGLISH.—*Language:* Grammar, analysis, parsing. *Composition:* An essay on one of several set subjects to be selected from:—*Maconlay; Warren Hastings; Shakespeare; Herchert of Venice; Longfellow; Evangeline; Scott: The Lady of the Lake.* (See note to English in Arts Matriculation.)

*Literature.*—Eighteenth Century: Addison, *Papers Contributed to the Spectator*; Johnson, *Life of Pope* (Maconlay, Samuel Johnson); Dryden, *MacFlecknoe*, *St. Cecilia's Day*, *Absconder's Feast*; Pope, *Rape of Lock*; Gray, *Elegy in a Country Churchyard*; Goldsmith, *Tweezer*, *Deserted Village*; Burns, *Four Dogs*, *Cotter's Saturday Night*.

2. HISTORY AND GEOGRAPHY.—As for Matriculation in Arts (see p. 10.)

\*All information with reference to the requirements for this examination, exemptions granted, etc., may be obtained on application to the Registrar of the Board, Dr. A. W. H. Lindsay, 319 Pleasant Street, Halifax.

3. MATHEMATICS. *Algebra.*—Indices, Equations, Ratio, Proportion, Variation, Progressions, Theory of Quadratics, Permutations and Combinations, Binomial Theorem, Logarithms, Interest and Annuities, Undetermined Coefficients, Partial Fractions, Exponential and Logarithmic Series, Graphical representation of Functions and plotting of Loci of Equations.

*Geometry.*—Euclid, Books I-IV, definitions of Book V, Books VI, XI. Measurement of the Prism, Cylinder, Cone, Pyramid and Sphere (as in Hall and Stevens' Euclid, and Wilson's *Solid Geometry*, and *Conic Sections*, pp. 1-98, or their equivalent.)

*Trigonometry.*—Elementary angular analysis. The solution of plane triangles. Measurements of heights and distances (as in Murray's *Plane Trigonometry*, with tables.)

4. FRENCH.—As for Matriculation in Arts (see p. 11); or GERMAN.—As for Matriculation in Arts (see p. 11).

5. (a) ADDITIONAL FRENCH.—*Mérimée, Colomba* (Hachette & Cie, London); *Molière, L'Avare* (D. C. Heath & Co.). Grammar and prose composition based upon the rules and vocabularies contained in Fraser and Squire's *French Grammar* (Copp, Clark Co.); or

ADDITIONAL GERMAN.—Schiller, *Wilhelm Tell*; Baumbach, *Der Schölererast* (Holt & Co.). Grammar, including both accidence and syntax; German prose composition.

Instead of the works prescribed above in French, German, and English, candidates for Matriculation may offer equivalents, provided they have been previously approved by the President, who should receive notice not later than August 1st.

(b) LATIN.—As for Matriculation in Arts (see p. 11).

(c) GREEK.—As for Matriculation in Arts (see p. 11).

### CERTIFICATES EXEMPTING FROM EXAMINATION.

The certificates\* enumerated above (pp. 11-12) entitle a candidate to exemption from this examination in the following subjects: The language chosen as subject 4, History and Geography, Latin, and Greek.

Candidates who hold the following licenses, diplomas or certificates, are exempted from the above examination in such of the remaining subjects of the examination, namely, English, Mathematics, and the language chosen as subject 5 (a), as were included in the examinations by which such licenses, diplomas or certificates were obtained, and in which a sufficiently high standard was reached:

- (a) High School Certificate of Grade XII of Nova Scotia.
- (b) Honour Diploma, as issued by the Prince of Wales College, P. E. I.
- (c) Grammar School Licenses of New Brunswick.

\*The standard required in the certificates for Grade XII issued by the Education Department of Nova Scotia in 1938 and subsequent years is 50 per cent. (See also footnote p. 11.)

- (d) Diplomas of the Associate Grade, as issued by the Education Department of Newfoundland (in English and French or German.)

### Admission to Advanced Standing

#### ADMISSION TO SECOND YEAR.

Students who hold a High School certificate of Grade XII of the Province of Nova Scotia, or certain certificates of similar grade from other provinces, may be admitted to the second year of a course for an Arts or Science degree by obtaining exemption from certain classes of the first year. For the regulations concerning exemptions see under Faculty of Arts and Science.

Students are admitted to the second year of any other Faculty only in accordance with the regulations for admission *ad eundem status* below.

#### ADMISSION AD EUNDEM STATUS.

Students of other Universities may, on producing satisfactory certificates, be admitted *ad eundem status* in this University, if they are found qualified to enter the classes proper to their years. But if their previous studies have not corresponded to those they would have taken in this University for the course on which they propose to enter, they may be required to take additional classes. In no case, however, shall a candidate admitted to advanced standing be admitted to a degree in course in this University until he has attended and passed in at least five classes.

Persons seeking admission to advanced standing must, in making application, submit certificates of good character and standing with duly certified statements of their Matriculation, and of the classes attended and passed, with the grades attained by them; also a calendar or calendars of the institution from which they have come of such date as to show the courses which they have followed.

#### ADMISSION AD EUNDEM GRADUM.

A graduate of a University approved by the Senate, who has received his degree in course, may be admitted *ad eundem gradum* in this University on producing satisfactory evidence of good character and academic standing and on payment of the required fee, provided the applicant is pursuing a course of study or research in this University, or is associated with the academic work of the University, or has similar qualifications.

A graduate of another University who is a candidate for a higher degree in this University must be admitted *ad eundem gradum* before proceeding to the higher degree.

## UNIVERSITY REGULATIONS

### Registration

All students of the University are required to enter their names in the Register annually, and pay the required fees before entering any class or taking any examination. After registration and payment of fees a student is given a certificate, on presentation of which to the professors and lecturers whose classes he is entitled to attend, his name is entered on the class register.

### Residence

All students are required to report their place of residence to the President on or before the day appointed in the University Almanac (October 15).

All students not residing with relatives or friends are required to reside in approved lodging houses.

Persons who wish to take students as boarders must furnish the President with satisfactory references. A register is kept at the office, containing the names and addresses of those persons who have met this requirement; and a copy is also furnished the Secretary of the University Young Men's Christian Association.

In September, 1912, a Residence for Women, Forrest Hall, was opened under the auspices of the Dalhousie Alumnae Association. For information, address the Warden, Miss Eliza Ritchie, Winwick, Northwest Arm, Halifax, N. S.

### Church Attendance

All students not residing with parents or guardians are required to report to the President on or before the day appointed in the University Almanac (October 15) the churches which they intend to make their places of worship during the session. Intimation will be made to the various clergymen of the city of the names and addresses of the students who have chosen their respective places of worship.

### Discipline

The Senate may use all means deemed necessary for maintaining discipline. It is the duty of the Dean of the College to see that order is maintained within the building and on the premises of the College. Every professor or officer of the University is required to report to the

Dean cases of improper conduct that may come under his notice. Students conducting themselves in an unbecoming manner on or beyond the premises of the College, during the session, may be fined, suspended, or expelled from the University.

Irregularity of attendance, except for approved reasons, or neglect of studies, shall be regarded as sufficient cause for dismissal from one or more classes, or, in extreme cases, from the University.

### University Library

The library is open during the session on every weekday, except Saturday, from 10 A. M. till 1 P. M. and 3 to 5 P. M.

Books, other than those on the lists of reserved books, may be taken out by instructors or students and kept for two weeks. They should then be returned to the library. Books on the reserved lists may be taken out immediately before the closing of the library on any day, and must be returned when it opens on the following day.

No more than two books may be borrowed at one time by a student not in an Honour course, nor more than four by a student taking Honours.

Students are allowed the privilege of borrowing books from the library for the summer vacation. Students using this privilege are required to make a deposit of two dollars with the librarian. This deposit is returned when the books are replaced in the library.

### Conduct of Examinations

Candidates are forbidden to bring any book or manuscript into the examination hall except by direction of the examiner, or to give or receive assistance, or to hold any communication with one another at the examinations. If a student violate this rule he shall be excluded from the examination and such other penalty shall be imposed as the Senate may determine.

No candidate shall be permitted to enter the examination hall after the expiry of one half hour, or leave it before the expiry of one half hour, from the commencement of the examination. Any candidate leaving the examination room after the distribution of the examination papers in any subject, shall not be permitted to return during the course of that examination.

All assessors are expected to attend strictly to the supervision of the examinations while they are in the hall.

### Academic Costume

Undergraduates and special students attending more than one class are entitled to wear gowns at lectures and all meetings of the University. The forms prescribed are the Oxford undergraduate gown of black stuff with sleeves, and the black trencher with tassel.

Graduates of the University shall be entitled to wear gowns of black stuff, and hoods. The distinctive part of the costume is the hood. The following are the kinds of hoods appointed for the various degrees:

- B. A.—Black stuff lined with white silk and bordered with white fur.
- M. A.—Black stuff lined with crimson silk.
- B. Sc.—Black stuff lined with white silk and bordered with white silk.
- M. Sc.—Black stuff lined with scarlet silk.
- B. E.—Black stuff lined with white silk and bordered with dark green silk.
- B. Mcs.—Black stuff lined with white silk and bordered with lavender silk.
- L.L. B.—Black stuff lined with white silk and bordered with gold coloured silk.
- M. D.—Black stuff lined with scarlet silk and bordered with white silk.
- D. D. S.—Black stuff lined with scarlet silk and bordered with gold coloured silk.
- L.L. D.—Black silk lined with purple silk.

Doctors of Law shall be entitled to wear gowns of black silk.

### Conferring of Degrees

Successful candidates for degrees are required to appear at Convocation in the proper academic costume to have the degrees conferred upon them.

By special permission of the Senate degrees may be conferred *in absentia*. (For fee see p. 49.)

# Faculty of Arts and Science

## Courses

Courses are prescribed leading to the degrees of Bachelor of Arts (B. A.), Master of Arts (M. A.), Bachelor of Science (B. Sc.), Master of Science (M. Sc.), Bachelor of Music (B. Mus.), and Bachelor of Pharmacy (Phm. B.), and to the Diploma of Licentiate of Music (L. Mus.). A course in Engineering, extending over two years, is prescribed for students who look forward to subsequently completing a course in Civil, Mechanical, Electrical or Mining Engineering at the Nova Scotia Technical College, or other technical institution.

The course for the degree of Bachelor of Arts or of Science extends over four years. Candidates for the degree may either follow the ordinary course or, if they have obtained a sufficiently high standing in the work of the first two years, may then enter upon a course leading to the degree of Bachelor of Arts or of Science with Honours.

The degree of Bachelor of Arts or of Science with Distinction is awarded to a student who obtains a sufficiently high standing in the classes of the ordinary course.

The degree of Master of Arts or of Science is given for the successful completion of an approved course of graduate work extending over at least one year.

The course of study for the Diploma of Licentiate of Music extends over two years, and that for the degree of Bachelor of Music over three years.

The degree of Bachelor of Pharmacy is awarded for the successful completion of a course extending over at least one year.

### Ordinary Course for Bachelor of Arts

The ordinary course of study prescribed for the degree of Bachelor of Arts consists of the following twenty classes:

- (i) Three classes in either Latin or Greek.
- (ii) Two classes in one of the following languages:
  - (a) the classical language not selected as subject (i),
  - (b) French, (c) German.

- (iii) Two classes in English.
- (iv) Physics 1, or Biology 1, or Geology 1.
- (v) One class in each of the following: History, Philosophy, Mathematics, Chemistry.
- (vi) Eight other classes, selected from the following list:

|                      |                    |             |
|----------------------|--------------------|-------------|
| Latin,               | History,           | Chemistry,  |
| Greek,               | Political Economy, | Mineralogy, |
| Biblical Literature, | Philosophy,        | Geology,    |
| French,              | Mathematics,       | Biology,    |
| German,              | Astronomy,         | Physiology. |
| English,             | Physics,           |             |

For details in classes see Courses of Instruction, p. 51, *et seq.*

### CHOICE OF ELECTIVE CLASSES.

Latin 1, Greek 1, French 1, and German 1, are not recognized as part of a course for a degree unless the corresponding second class is subsequently taken.

Chemistry 4 is only recognized as a class for a degree in Arts provided the classes of Group C (see Affiliated Courses below) are also taken.

An advanced or Honour class may be taken as an elective by students who are not in an Honour course, if approved by the Faculty.

Lists of the elective classes chosen by students must be submitted for approval not later than Wednesday, October 1st, 1913.

### AFFILIATED COURSES.

An undergraduate looking forward to the study of Divinity, Law, or Engineering, may offer one of the following groups in place of three of the eight electives required above:—

- A. FOR DIVINITY:—Hebrew, New Testament Greek.
- B. FOR LAW:—Constitutional History, Contracts, Torts and Crimes.
- C. FOR ENGINEERING:—Drawing 1, Drawing 2, Surveying, Kinematics.

An undergraduate looking forward to the study of Medicine may offer *either* three *or* four of the subjects in group D below for the same number of the eight electives required above:—

- D. FOR MEDICINE:—Anatomy 1, Anatomy 2, Practical Anatomy (first year), Physiology 2.

Undergraduates who have passed in the classes of group B. may complete a subsequent Law course in this University in two years.

Undergraduates who look forward to the study of Engineering may shorten by two years a subsequent Engineering course by including in their Arts course the subjects of groups C. in addition to the following:—

Mathematics 3 and 4, Mechanics, Physics 1A and 6, Chemistry 4, Geology 2, French 1 or German 1.

Students registered as undergraduates in Medicine, whose course in Arts has included Chemistry 1A, Biology 1, Physics 1B, Anatomy 1, Practical Anatomy, and Physiology 2, may afterwards take a degree in Medicine at this University in four years; and if their Arts course has also included Chemistry 3, Anatomy 2, Physiology 1 and Physiology 3, and they have taken Practical Anatomy (second year) and Practical Materia Medica as additional classes, they may subsequently take the degree in Medicine in three years.

#### ORDER OF CLASSES.

The classes of a course may be taken in any order subject to the regulations regarding Admission to Classes (page 39). The following schedule in which the classes are arranged in years shows the order recommended for undergraduates *not taking the affiliated courses.*

##### First Year

1. Latin 1, or Greek 1.
2. The classical language not selected as subject 1, or French 1, or German 1.
3. English 1.
4. Mathematics 1.
5. Chemistry 1 or 1A.

##### Second Year

1. The language selected as subject 1 in the first year.
2. The language selected as subject 2 in the first year.
3. English 2.
4. Philosophy 1.
5. A class in one of the following subjects:—Mathematics, \*Mechanics, Chemistry, a language not already selected as subject 1 or 2.

\*Students selecting Physics 1A in the third year must have taken Mechanics in the second year.

#### Third and Fourth Years

1. Latin 3, or Greek 3 (the language selected must have been taken during the first and second years).
2. History 1.
3. Physics 1, or 1A, or 1B, or Geology 1, or Biology 1.
- 4—10. Eight other classes selected from the subjects specified on page 19.

#### Ordinary Course for Bachelor of Science

The ordinary course of study prescribed for the degree of Bachelor of Science consists of the following twenty-one classes:

- (i) Three in German or French.
- (ii) Two in each of the following: English, French or German.
- (iii) One in each of the following: Mathematics, Physics, Chemistry, Drawing.
- (iv) Ten classes, so selected from the following groups that at least one class shall be chosen from each group and not more than four from groups B. and C. taken together:
  - A.—Mathematics, Physics, Chemistry, Geology, Mineralogy, Astronomy, Biology, Physiology.
  - B.—Philosophy, History, Political Economy.
  - C.—English, French, German.

The details of subjects studied in the above classes will be found under Courses of Instruction, p. 51, *et seq.*

In choosing their elective classes students should have regard to the restrictions stated under Choice of Elective Classes in the course for the degree of Bachelor of Arts (page 19).

Lists of the elective classes chosen must be submitted for approval not later than Wednesday, October 1st, 1913.

#### AFFILIATED COURSES.

An undergraduate looking forward to the study of Engineering may offer the classes of Group D below instead of three of the electives required from group A. above:

D. FOR ENGINEERING:—Drawing 2, Surveying and Kinematics.

An undergraduate looking forward to the study of Medicine may offer either three or four of the subjects in group E. below for the same number in group A. above:

E. FOR MEDICINE:—Anatomy 1, Anatomy 2, Practical Anatomy (first year), Physiology 2.

An undergraduate who elects group D. and also includes in his Science course the other classes common to it and the course in Engineering, may complete the work for a degree in Engineering in two years, provided he takes Shop-work as an additional class.

Students registered as undergraduates in Medicine whose course in Science has included Biology 1, Physics 1B, Anatomy 1, Practical Anatomy and Physiology 2, may complete a subsequent course in Medicine in four years; and if their Science course has also included Chemistry 3, Anatomy 2, Physiology 1, and Physiology 3, and they have taken Practical Anatomy (second year), and Practical Materia Medica as additional classes, they may complete a subsequent course in Medicine in three years.

#### ORDER OF CLASSES.

The classes of the above course may be taken in any order subject to the regulations regarding Admission to Classes (page 39). The following schedule in which the classes are arranged in years shows the order recommended for undergraduates *not taking the affiliated courses*.

##### First Year

1. French 1.
2. German 1.
3. English 1.
4. Mathematics 1.
5. Chemistry 1A.
6. Drawing 1, or \*Freehand Drawing.

##### Second Year

1. French.
2. German.
3. English 2.
4. Mechanics, or Physics 1 or 1B.
5. A class in one of the following subjects:—Mathematics, Chemistry, Geology, Biology.

\*The class in this subject may be taken at the Victoria School of Arts and Design provided it be equivalent to a regular college class; and it must be followed by an examination held at Dalhousie College.

#### Third and Fourth Years

1. French or German.

2—10. Nine classes, selected in accordance with the requirements stated above (p. 21).

#### Degree of Bachelor with Distinction

The degree of Bachelor of Arts or Science with Distinction will be conferred on undergraduates for special excellence shown in the classes of the ordinary course. The award of such degree is based upon the Class Distinctions (page 41) gained by candidates; and not only are the number and grade of such Distinctions considered, but also the extent and character of the work by which they have been gained. Distinctions gained in recognized classes of other Faculties of the University are taken into consideration, but not those gained in other colleges, though such classes may be recognized for the degree.

Candidates for Distinction are advised to consult the Faculty with respect to the selection of classes.

#### Degree of Bachelor with Honours

An undergraduate who has passed in at least nine classes of the ordinary Arts and Science course with sufficient credit is allowed to restrict his attention during his third and fourth years to a more limited range of subjects than that prescribed for the ordinary course, by entering an Honour course.

A candidate for admission to an Honour Course must obtain the permission of the Faculty, which will in ordinary circumstances only be granted to students who have attained a high standing in the classes preliminary to the Honour course selected. (See statement of Honour courses below).

Before graduation he must have passed in the following classes: (a) Two in each of two foreign languages, of which, in Arts, Latin or Greek must be one. (b) Two in English. (c) One in Mathematics. (d) One in Chemistry.

In all cases the number of classes required for the degree shall be not less than twenty.

Honour courses are provided in the following departments:—(i) Classics, (ii) Latin and English, (iii) Greek and English, (iv) English and English History, (v) Economics and History, (vi) Philosophy, (vii) Mathematics, (viii) Physics, (ix) Chemistry and Chemical

Physics, (x) Geology and Geological Chemistry. Undergraduates in Arts may enter any of these courses for which they are eligible. Undergraduates in Science may enter any of the last five courses for which they are eligible, namely, Philosophy, Mathematics, Physics, Chemistry and Chemical Physics, Geology and Geological Chemistry.

An undergraduate who enters upon an Honour course in any of the above departments must take the advanced classes in the department chosen and certain other classes specified below in the requirements for the individual courses, and is required to make satisfactory progress in these classes. He may select the remaining classes of his course, if he is an undergraduate in Arts, from any of the subjects of the ordinary course in Arts, and if an undergraduate in Science, from any of the subjects of the ordinary course in Science, the choice in each case being subject to the approval of the Faculty.

The examinations in the subjects of an Honour course are held at the end of the last year of the course.

A candidate for Honours may defer his examination in the subjects of his course until a year after he has passed the examinations in the ordinary subjects of the fourth year; in which case, however, such candidate shall not be entitled to his degree until he has passed the examination of such Honour course.

Successful candidates will be declared to have obtained their degrees With Honours, With High Honours, or With High Honours and a Medal.

## Honour Courses

### I. CLASSICS.

PRELIMINARY CLASSES.—Latin 1 and 2, and Greek 1 and 2.

Undergraduates taking the Honour course in Classics shall be examined in the following subjects:

#### LATIN.

I. Candidates will be required to have a critical knowledge of the following works, in addition to those prescribed in the ordinary course:—

Plautus: *Captivi*, *Miles Gloriosus*. Terence: *Adelphi*, *Phormio*, *Vergil*; *Georgics* I, IV. Horace: *Epistles*, I, II; *Art Poetica*. Juvenal: *Satires*, I, VII, VIII, XIV. Cicero: *De Oratore*, I; *Philippics*, I, II; *Pro Claudius*. Livy: XXI, XXII. Tacitus: *Annals*, I, II; *Agricola*. Pliny: *Letters*, Bks. I-III.

II. COMPOSITION.—Translation from English into Latin prose.

III. LITERATURE.—A general knowledge of the history of Latin literature, with a more minute knowledge of the lives and writings of the authors prescribed. (Mackail, *Latin Literature*; Cruttwell, *History of Roman Literature*).

IV. TRANSLATION AT SIGHT.—Passages from Latin books not prescribed will be set.

#### GREEK.

I. Aeschylus: *Eumenides*, *Prometheus Bound*. Sophocles: *Oedipus Colonus*, *Philoctetes*. Aristophanes: *Frogs*, *Knights*, *Homor*; *Gorgias*, V-VIII. Thucydides: II, III. Plato: *Republic*, I-IV. Demosthenes: *De Corona*, *Aristotle*; *Poetics*.

II. COMPOSITION.—Translation from English into Greek prose.

III. LITERATURE.—A general knowledge of the history of Greek literature, with a more minute knowledge of the lives and writings of the authors prescribed (Jebb, *Primer of Greek Literature*; Jebb, *Introduction to Homer*; Mahaffy, *History of Greek Literature*; Haigh, *Athic Theatre*).

IV. TRANSLATION AT SIGHT.—Passages from Greek books not prescribed will be set.

### II. LATIN AND ENGLISH

PRELIMINARY CLASSES.—Latin 1 and 2, and English 1 and 2. Prospective candidates are strongly recommended to take two classes in German.

Candidates shall be examined in the following subjects:

#### LATIN.

The Latin subjects prescribed for the Honour course in Classics.

#### ENGLISH.

The historical development of the language and literature to the year 1390. Bright, *Anglo-Saxon Reader*, Sievers, *G. E. Grammar* (trans. by Cook.) Pt. II. Morris, *Specimens of Early English*, I. Emerson, *History of the English Language*. Sight reading of Old English.

History of the Elizabethan and Early Stuart Literature.—Sidney: *Apologie for Poetrie*. Hooker: *Ecclesiastical Polity*, Book I; Bacon: *Advancement of Learning*, *Essays*.

Marlowe: *Tamburlaine*, *Edward II*, *The Jew of Malta*, *Greene*; *Pier Bacon* and *Pier Buggys*. Jonson: *The Alchemist*, *Every Man in His Humour*, *Barrenment* and *Fletcher*; *Philaster*, *The Knight of the Burning Pestle*, *Masquerade*; *A New Way to Pay Old Debts*. Webster: *The Duchess of Malfi*. Shakespeare: *Titus Andronicus*, *Romeo and Juliet*, *Julius Caesar*, *Hamlet*, *Othello*, *Lear*, *Macbeth*, *Antony and Cleopatra*, *Coriolanus*, *Timon*, *The Two Noble Kinsmen*.

Books recommended: Sidney, Cook's edition (Ginn & Co.). Hooker, Church (Clarendon Press); Bacon, *Advancement*, Wright (Clar. Press); *Essays* (Wright, G. T. Series). History of Literature: Ten Brink, *Schubert*, *Brucke* (Clarendon Press). "Mermaid," "Temple Dramatists," "Belles Lettres," and Arber editions of Elizabethan works.

In awarding Honours, the thesis for Distinction in English 4 or English 5 will be taken into consideration.



## III. GREEK AND ENGLISH

PRELIMINARY CLASSES.—Greek 1 and 2, and English 1 and 2. Prospective candidates are strongly recommended to take German.

Candidates shall be examined in the following subjects:

## GREEK.

The Greek subjects prescribed for the Honour course in Classics.

## ENGLISH.

The English subjects prescribed for the Honour course in Latin and English.

## IV. ENGLISH AND HISTORY

PRELIMINARY CLASSES.—English 1 and 2, and either History 1 or 2.

Candidates shall be examined in the following subjects:

## ENGLISH.

The English subjects prescribed for the Honour course in Latin and English.

## HISTORY.

The History subjects prescribed for the Honour course in Economics and History. (See below).

## V. ECONOMICS AND HISTORY

PRELIMINARY CLASSES.—Economics 1, and either History 1 or 2.

## ECONOMICS.

I. ECONOMIC THEORY.—Mill: *Principles of Political Economy*. Boehm-Bawerk: *Capital and Interest*. Ingram: *History of Political Economy*.

II. LABOUR, TRUSTS AND SOCIALISM.—The works prescribed for Economics 2, including the extra work.

III. THE STATE IN RELATION TO INDUSTRY AND FINANCE.—The works prescribed for Economics 3.

IV. MONEY, BANKING AND INTERNATIONAL EXCHANGE.—The works prescribed for Economics 4.

## HISTORY.

THE FRENCH REVOLUTION.—Young: *France in France*. Jarvis: *The Ancient Regime*. Burke: *Reflections*. Carlyle: *The French Revolution*. Beloe: *Danton, Robespierre, Marie Antoinette*. Morley: *Robespierre*, *Furgot* (Miscellaneous). Morley: *Rousseau* (Chapter on "The Social Contract.")

## VI. PHILOSOPHY

PRELIMINARY CLASS.—Philosophy I.

I. LOGIC.—(a) Theory. Josiah: *An Introduction to Logic*; and either Bosanquet: *Logic*, or Bradley: *Principles of Logic*.

(b) Formal. Keynes: *Formal Logic*. Candidates will also be required to have some knowledge of modern symbolic logic.

(c) Inductive. Mill: *System of Logic*. Venn: *Empirical Logic*.

(d) History. Adamson: *A Short History of Logic* (Blackwood).

II. PSYCHOLOGY.—Sloot: *Manual of Psychology and Analytic Psychology*. James: *Principles of Psychology*. Ward: *Article "Psychology" in Encyclopaedia Britannica*. McDougall: *Body and Mind*. Myers: *A Text Book of Experimental Psychology*.

III. METAPHYSICS.—Taylor: *Elements of Metaphysics*. Bradley: *Appearance and Reality*. Bergson: *Creative Evolution*. James: *Pragmatism*, and either Bosanquet: *The Principle of Individuality and Value* (vol. I), or Ward: *Naturalism and Agnosticism*.

No candidate will be allowed to enter for examination in this subject who has not studied the ordinary or honours course in Greek Philosophy or Modern Philosophy.

IV. ETHICS.—(a) Theory. Sidgwick: *Methods of Ethics*. Moore: *Principia Ethica*. Rashdall: *The Theory of Good and Evil*.

(b) History. Sidgwick: *History of Ethics*. Aristotle: *Ethics*. Selby—Bigge: *British Moralists* (Clarendon Press).

Philosophy 3 is a prerequisite of this course.

V. HISTORY OF MODERN PHILOSOPHY.—Leibnitz: *Monadology and Letters to Arnauld* (a useful commentary will be found in Russell: *The Philosophy of Leibnitz*). Spinoza: *Ethics* and a general knowledge of Kantian and Post-Kantian Philosophy. Adamson: *The Development of Modern Philosophy*.

The ordinary course in Modern Philosophy is a pre-requisite of this one.

VI. HISTORY OF GREEK PHILOSOPHY.—Burnet: *Early Greek Philosophy*. Adamson: *The Development of Greek Philosophy*. Caird: *The Evolution of Theology in the Greek Philosophers*. Plato: *Phaedo*, *Republic*, *Theaetetus*, *Sophistes*. Aristotle: *Metaphysics Book 1*.

VII. POST-KANTIAN PHILOSOPHY.—Candidates who have already attended a course in the Philosophy of Kant may offer themselves for examination in this subject, which will include (a) a fuller knowledge of Kant's writings, (b) a general knowledge of the works of Fichte, Schelling and Lotze, and a detailed knowledge of Hegel: *Smaller Logic*.

## VII. MATHEMATICS

PRELIMINARY CLASSES.—Mathematics 3, 4, Mechanics, Physics IA.

Undergraduates taking the Honour course in Mathematics are recommended to take German and Mechanics in their first and second years, and Physics IA, in their second year. They are required, if they wish to complete the work for a degree in four years, to take in their third and fourth year four advanced classes in Mathematics, and Physics 2, 3 and 4. The standard of attainment shown in

the examinations in Physics 2 and 3 will be considered in estimating the results of the final examinations of the Honour course.

The subjects of examination shall be as follows:—

#### PURE MATHEMATICS.

Any four of the following:—

(a) Infinitesimal Calculus; (b) Plane and Solid Analytic Geometry; (c) Differential Equations; (d) Algebra (Determinants, Theory of Equations, Quantics, Invariants, Series, Functions of a real variable); (e) Projective Geometry.

#### APPLIED MATHEMATICS.

Problems in Mathematical Physics given in Physics 4 or appointed for private reading. The solution of these problems involves the use of Analytical Geometry, Calculus, Differential Equations and Vector Analysis.

#### VIII. PHYSICS.

PRELIMINARY CLASSES.—Mathematics 3, 4, Mechanics, Physics 1A.

Undergraduates taking the Honour course in Physics are recommended to take German and Mechanics in their first year, and Physics 1A and 6 in their second year. They are required, if they wish to complete the work for a degree in four years, to take in their third year one advanced class in Mathematics, Physics 2 or 3, and Chemistry 2; and in their fourth year one advanced class in Mathematics, Physics 3 or 2, and Physics 4, 5 and 8. The standard of attainment shown in the examinations in Physics 2 and 3 will be considered in estimating the results of the final examinations of the Honour course.

Those who aim at High Honours will be expected either to prepare a thesis embodying the results of a short original investigation, or to exhibit a high standard of excellence in the more mathematical parts of the course.

The subjects of examination shall be as follows:

#### MATHEMATICS.

Analytical Geometry and Calculus as in Mathematics 2 and 4, and any two of the advanced courses in Pure Mathematics.

#### PHYSICS.

The entire subject-matter of Physics 1A, 2, 3, 4, 5, 6, and 8. Several papers will be set, and no one will cover merely the work of a single class but each paper will be arranged in test (1) the student's general knowledge of the more elementary parts of the subject, (2) his grasp of the more advanced parts of the subject which have been taken up in lectures, and (3) his ability to work up some part of the subject without the aid of lectures.

#### IX. CHEMISTRY AND CHEMICAL PHYSICS.

PRELIMINARY CLASSES.—Chemistry 1A and 2, Physics 1B, Mathematics 3 and 4. Two classes in German are recommended.

In order to complete this course in four years it is necessary to take Mathematics 1, 3, 4, Physics 1B, Chemistry 1A and Chemistry 2 in the first and second years; and Physics 2, 3, 5 and 8, Chemistry 5, 6, 7 and 8, in the third and fourth years.

Candidates for High Honours will be expected either to prepare a thesis embodying the results of a short original investigation, or to show special attainments in some branch of laboratory work, as the preparation of organic compounds, or the analysis of iron and steel, of ores, or of water. In estimating the results in the final examination of the Honour course, the standard of attainment shown in the following Physics and Chemistry classes will be considered:—Physics 2 and 3 (Distinction courses), Physics 8, and Chemistry 5, 6, 7 and 8.

Candidates shall be examined in the following subjects:

I. GENERAL CHEMISTRY.—The principles of Chemistry as treated in Chemistry 1A, 2 (Autumn term), and 6, supplemented by Ostwald's *Principles of Inorganic Chemistry*, translated by Findlay.

II. ORGANIC CHEMISTRY.—The occurrence, general modes of formation, physical properties, behaviour and constitution of the principal compounds of carbon as in Beutli's *Organic Chemistry*, translated by McGowan; and some present day problems of Organic Chemistry as in Lechmann's *Spirit of Organic Chemistry*.

III. HISTORY OF CHEMISTRY.—The development of chemical theory as treated in Chemistry 5 with the prescribed supplementary reading. Candidates are also required to have a thorough knowledge of the following memoirs:—Graham, *Researches on the Arsenites, Phosphates, and Modifications of Phosphoric Acid* (Alcembic Club Reprints, No. 10); Liebig and Wochler, *Ueber das Radikal der Benzoesaure* (Ostwalds Klassiker, No. 22); Liebig, *Ueber die Constitution der organischen Sauren* (Ostwalds Klassiker, No. 26).

IV. LABORATORY METHODS.—The principles and methods of qualitative and quantitative analysis and of the preparation of inorganic and organic substances as in Chemistry 2, 7 and 8, including Distinction work.

V. CHEMICAL PHYSICS.—These sections of Physics which have an intimate bearing upon chemical research, viz. the properties of gases and liquids, including the kinetic theory of gases, the conduction of electricity through gases, and the theory of solutions, radio-activity, the theory of heat, electrolysis, and the wave theory of light.—The discussion of the degree of accuracy of experimental results.

A large part of the requirements in Chemical Physics is based on the work of the classes known as Physics 2, 3, and 5.

**X. GEOLOGY AND GEOLOGICAL CHEMISTRY**

PRELIMINARY CLASSES.—Geology 1 or 1A, Physics 1B, Chemistry 1A and 2, Biology 1.

Prospective candidates are recommended to take German.

The subjects of examination shall be the following:

- (a) General Geology; (b) Mineralogy; (c) Petrography; (d) Economic Geology; (e) Geological Chemistry.

**Master of Arts or Master of Science**

The degree of Master of Arts or Master of Science will be conferred on the holder of the corresponding Bachelor's degree of this University of at least one year's standing and of good character, for the successful completion of an approved course of study. This course shall be confined to one subject, or two closely related subjects, and must be submitted to, and receive the approval of, the Faculty of Arts and Science at the beginning of candidacy. The course shall consist of work in advance of that given in the ordinary undergraduate classes; but some of the more advanced undergraduate classes may be a part of it, provided these have not been part of the work of the candidate for the Bachelor's degree. The course shall comprise work amounting to not less than that of five classes, and designed to occupy the candidate's time for not less than forty hours per week for a session, class attendance and time spent on preparation being included. The work may be done wholly or in part by private reading; attendance at the University is not necessary.

The course of study for the Master's degree shall be arranged for each candidate by the department chiefly concerned, due consideration being taken of the candidate's preparation, needs, and aims. In case of deficient preparation for what the department regards as proper graduate work, prerequisite undergraduate classes may be prescribed, but such classes shall not count as part of the work for the degree.

An essay or thesis may be required of the candidate. When required, it shall be regarded as forming one-eighth of the full course of study, and should occupy one-fourth of the candidate's time for half of the session. This rule, however, shall not apply to the departments of Physical Science. These must be sent to the Secretary of the Faculty on or before the first day of March.

An undergraduate who, at the beginning of a session, has fewer than five classes to complete in order to obtain

the Bachelor's degree, may be permitted, with the approval of the Faculty, to take not more than two advanced classes with a view to including such class or classes in a subsequent course for the Master's degree.

A candidate for a Master's degree must complete the entire work of his course before being admitted to any examinations for the degree, and the time over which such examinations may extend shall not exceed a fortnight. The pass mark shall be fifty per cent. in each subject. Examinations shall be held ordinarily at the time of the Spring examinations; but in special circumstances, they may be held in Autumn. Candidates must give one month's notice to the Secretary of the Faculty of their intention to appear for examination.

**Degree of Bachelor of Music**

The course for the degree of Bachelor of Music may be completed in three years. Candidates for the degree may be students of the pianoforte, or organ, or violin, or voice. Candidates are required to pass the examinations in the subjects of the course, to submit the prescribed compositions, and to satisfy the examiners of their proficiency as musical performers by passing the prescribed practical tests. The examinations in theory are the same for candidates in all branches of music.

Candidates for any examination must have passed Matriculation in English (see p. 10), and before proceeding to the examinations of the final year they must have completed Matriculation, and, in addition, must have satisfied the department of Modern Languages that they have a good reading knowledge of French and German.\*

**EXAMINATIONS**

The examinations are arranged in three groups or years. The examinations in any one group may be taken in a single year, and a candidate must have passed in all the subjects of a given group or year before proceeding to the examinations of the following one. The papers shall be set in accordance with the following schedule:

**First Year**

1. Harmony in not more than four parts.
2. Analysis of Harmony.
3. Strict Counterpoint in two and three parts.

\*To meet this requirement candidates are required to read carefully six hundred pages of French and four hundred pages of German, of a varied character, in addition to the amount of reading required for Matriculation.

4. History of Music from the beginning of the Christian era down to 1750.
5. English 1.

**Second Year**

1. Harmony in not more than five parts.
2. Strict Counterpoint in three and four parts.
3. Double Counterpoint in the octave, in two parts.
4. Canon and Imitation in two parts.
5. Fugue as far as subject and answer.
6. History of music since 1750.
7. English 2.

**Third Year**

1. Strict and Free Counterpoint in not more than five parts.
2. All forms of Double, Triple and Quadruple Counterpoint; Canon and Imitation in two, three and four parts.
3. Strict and Free Fugue in not more than five parts.
4. Analysis of Form.
5. Acoustics, in so far as connected with the Theory of Music.
6. Orchestration.
7. Analysis of a Full Orchestral Score.

The University provides instruction in English, Acoustics, French and German. Instruction in the professional subjects may be obtained at the Halifax Conservatory of Music, or other institution recognized for this purpose by the Senate.

Candidates for examination must make application in accordance with the Regulations for Courses in Music. (See p. 36.)

**PRACTICAL TESTS**

The Practical Tests are held only at the time of the second and third year examinations and shall include one of the following groups:

**I. FOR PIANOFORTE.****Second Year**

*Scalés:* All major and minor scales in 3rds and 6ths, 8ths and 10ths, in similar and contrary motion, crescendo and diminuendo, legato and staccato, and in double 3rds and octaves.

*Arpeggios:* Major and minor triads, dominant and diminished triads in close and extended positions and in solid chord formation.

*Ear-Tests:* Recognition by ear of all intervals, scales, triads, sevenths, chords, suspensions, and anticipations.

*Sight-Reading:* A piece of Grade IV of a course complete in seven grades, or an accompaniment to a song or violin solo. To play an easy figured bass at sight, and to pass a simple test in transposition.

To play from memory the following programme, or some of similar grade accepted by the Examiners:

|                          |                                   |
|--------------------------|-----------------------------------|
| <i>Mendelssohn</i> ..... | Prelude and Fugue in E minor.     |
| <i>Beethoven</i> .....   | Sonata Appassionata.              |
| <i>Chopin</i> .....      | Nocturne in D $\flat$             |
| <i>Liszt</i> .....       | Rhapsodie, No. 12.                |
| <i>Debussy</i> .....     | Images, 1st series, Nos. 1, 2, 3. |

**Third Year**

Extemporization upon a given theme. To play from memory one from each group of the following concertos:

**Group I.**

|  |
|--|
| <i>Beethoven</i> , E $\flat$ or G major.   |
| <i>Schumann</i> , A minor or Concertstück. |
| <i>Chopin</i> , E minor or F minor.        |

**Group II.**

|                                       |
|---------------------------------------|
| <i>Rubinstein</i> , D minor.          |
| <i>Greig</i> , A minor.               |
| <i>Saint-Saëns</i> , G minor.         |
| <i>Liszt</i> , E $\flat$ major.       |
| <i>Tchaikowski</i> , B $\flat$ minor. |

**II. FOR ORGAN.****Second Year**

To play at sight a figured bass; to extemporize on a given theme; to harmonize a given melody at the organ.

To transpose the accompaniment of a sacred song at sight into any key specified by the Examiners.

To sing any one of the four parts of an oratorio chorus, and answer questions on the general structure of the organ, especially on the pneumatic and electro-pneumatic action; on the combination and contrasting of the various registers; on toning; on the structure of the pipes; and on the causes for the different qualities of tone.

To play the following programme:

|                             |  |
|-----------------------------|--|
| <i>Bach</i> .....           | Toccatto and Fugue in F, Book 8, Novello.  |
| <i>Krebs</i> .....          | Grosse Fantasia and Fugue.                 |
| <i>Widor</i> .....          | Symphony No. 2, in D.                      |
| <i>Tchaikowski-Lemare</i> — | Overture, Fantasia (Romeo and Juliette).   |
| <i>Lemare</i> .....         | Concert Fantasia and Fugue.                |
| <i>Reger</i> .....          | Zehn Stücke, Op. 49, Book 1, Nos. 1 and 2. |

**Third Year**

To play the following programme:

|                        |   |
|------------------------|---|
| <i>Bach</i> .....      | Passacaglia in C minor, Book 10, Novello. |
| <i>Thiele</i> .....    | Theme with variations.                    |
| <i>Reubke</i> .....    | Sonata in C, minor.                       |
| <i>Liszt</i> .....     | Fantasy and Fugue on the name of Bach.    |
| <i>Gaillmont</i> ..... | Sonata No. 1.                             |

**III. FOR VIOLIN.****Second Year**

Scales and broken chords in all keys; compass three octaves. Scales major and minor in octaves, thirds, and sixths; compass two octaves.

Broken chords played in octaves, all keys; compass two octaves.

To play at sight a movement from a Violin and Piano Sonata of Grade IV of a course complete in six grades.

Easy test in transposition and playing from figured bass on the piano; and playing a piece of Grade IV difficulty.

To play from memory the following pieces:

|                        |  |
|------------------------|--|
| Goffard .....          | Concerto in A minor.                     |
| Paganini .....         | Caprices (any one).                      |
| Soruzate .....         | Zigeuner Weisen.                         |
| Bock .....             | Prelude and Fugue No. 1 for solo violin. |
| Chopin-Wilhelmsj ..... | Nocturne, Op. 27, No. 2.                 |

And any sonata by Schumann, Beethoven or Grieg.

#### Third Year

To play from memory the following pieces, or selections of similar grade accepted by the Examiners:

|                   |                             |
|-------------------|-----------------------------|
| Beethoven .....   | Concerto.                   |
| Mendelssohn ..... | Concerto.                   |
| Saint-Saens ..... | Rondo Capriccioso.          |
| Wieniawski .....  | Scherzo Tarantella.         |
| Sack .....        | Chaconne (for solo violin). |
| Tartini .....     | Le trille du Diable.        |

Any sonata by Schumann, Grieg, Rubinstein, Rheinberger, Schütt, Sinding or Brahms.

#### IV. FOR VOICE.

##### Second Year

**Scalcs:** All major and minor scales and arpeggios covering two octaves, and any exercise in Concerto, Opus 9, and Pasofka, Opus 83.

**Piano:** Creditable performance of a piece of Grade IV of a course complete in seven grades.

**Ear-Tests:** Recognition by ear of all intervals, scales, triads, sevenths, chords, suspensions and anticipations.

**Sight-Singing:** A song equivalent to Grade IV of a vocal course complete in six grades, and to play and sing at sight a song of moderate difficulty.

To sing from memory the following programme, or one of equal difficulty accepted by the Examiners:

|                |                                      |
|----------------|--------------------------------------|
| Rossini .....  | Del raggio (Semiramide).             |
| Strauss .....  | Da meines Herzens Kronelein.         |
| Schubert ..... | Die Sterne.                          |
| Schubert ..... | Die Taubengasse.                     |
| Hagen .....    | With verdure clad (Creation).        |
| Schumann ..... | Be the best of all.                  |
| Chodwick ..... | The Danza.                           |
| List .....     | Die Loreley.                         |
| Massenet ..... | Il est doux, il est bon (Hercolide). |

##### Third Year

To sing from memory the following selections:

|                |                 |
|----------------|-----------------|
| Schubert ..... | Die Erbkönig.   |
| Schubert ..... | Der Zwerg.      |
| Strauss .....  | Chello.         |
| Strauss .....  | Frühlingsfeier. |

And any three of the following arias:

|                    |   |
|--------------------|---|
| Bizet .....        | Habenera (Carmen).                                |
| Donizetti .....    | Mad Scene (Lucia).                                |
| Giounod .....      | Jewel Song (Faust).                               |
| Giounod .....      | Plus grand dans son obscurité (La Reina di Saba). |
| Meyerbeer .....    | Onhra Leggiera (Bisnurah).                        |
| Rossini .....      | Una Voce poco fa (Il Barbiere di Siviglia).       |
| Tschikowskij ..... | Adieu forêt (Jeanne d'Arc).                       |
| Wagner .....       | Elizabeth's Prayer (Tannhäuser).                  |
| Wagner .....       | Elsa's Dream (Lohengrin).                         |

#### COMPOSITIONS

Candidates shall compose the following exercises, which are to be submitted at or before the final examinations for the degree—

- (a) A solo song with pianoforte accompaniment.
- (b) A four-part vocal composition.
- (c) An instrumental composition (other than a dance) for pianoforte, organ, or other stringed or wind instruments, with pianoforte accompaniment.

#### Diploma of Licentiate of Music

The Diploma of Licentiate of Music in Pianoforte, or Organ, or Violin, or Voice will be granted candidates who complete two years of the course for the degree of Bachelor of Music by passing the examinations of the first and second years and passing in one group of the practical tests of the second year.

Candidates for the diploma must have passed Matriculation in English (see p. 10), before taking any examination, and in all other respects must conform to the same regulations as candidates for the degree.

#### General Regulations for Courses in Music

The regular examinations are held in April or at such other times as the Faculty of Arts and Science may appoint. Supplementary and Special examination are held in September and January only. (See University Almanac.)

Candidates for any examination are required to submit certificates of having attended approved courses of instruction in the subjects of that examination.

Candidates who present certificates from a recognized institution of having attended approved courses of instruction in the subjects of the first year, and of having passed examinations on them accepted as equivalent to those of this University may be exempted from examination in the subjects of the first year. The examinations of the second and third years must be taken at this University.

Candidates who hold the Diploma of Licentiate of Music of this University are exempted from the examinations and practical tests of the first and second years of the course for the degree of Bachelor of Music.

Candidates for any examination must make application to the Secretary of the Faculty of Arts and Science at least one month before the date set for such examination, the application being accompanied by the proper certificates and fees. (For fees see p. 49.)

### Degree of Bachelor of Pharmacy

The degree of Bachelor of Pharmacy will be conferred upon candidates who have fulfilled the conditions and passed the examinations outlined below.

Candidates for the degree must have passed Matriculation.

Every candidate must submit evidence to satisfy the Faculty that he has served as assistant to a duly registered druggist for not less than four years (not being engaged in any other business), during at least two years of which period he has been employed in dispensing prescriptions; and, if he is resident in the Province of Nova Scotia, that he has complied with all the requirements prescribed from time to time by the Nova Scotia Pharmaceutical Society for admission to examination qualifying for Registration.

Every candidate must present certificates showing that in all those subjects of the course prescribed for the degree in which instruction is not offered in this University, he has attended full courses of lectures and laboratory work at a College of Pharmacy recognized for this purpose by the Senate. The University provides courses in Physics, Chemistry, Botany, Physiology and Materia Medica, which must be attended by the candidate. Instruction in the other subjects of the course may be obtained at the Nova Scotia College of Pharmacy, which is affiliated with the University, or at another recognized institution.

#### COURSE.

The classes of the prescribed course are shown in the following schedule, in which the time devoted to lecture and laboratory work respectively is stated in hours per week. The course may be completed in one year by students who come exceptionally well prepared. The classes in Physics, Chemistry and Botany will be found described under Courses of Instruction of the Faculty of Arts and Science (p. 51 *et seq.*); the classes in Physiology and Materia Medica, in the Faculty of Medicine; and the remaining classes, in the Calendar of the Nova Scotia College of Pharmacy.

|  | LECTURE HOURS | LABORATORY HOURS |
|--|---------------|------------------|
| Physics .....                          | 3             | 1                |
| Chemistry .....                        | 3             | 7                |
| Botany and Pharmacognosy.....          | 2             | 2                |
| Physiology and Toxicology.....         | 1             |                  |
| Materia Medica .....                   | 3             |                  |
| Pharmaceutical Materia Medica .....    | 3             |                  |
| Pharmacy .....                         | 2             | 4                |
| Prescriptions .....                    | 2             |                  |
| Dispensing .....                       | 0             | 2                |
| Pharmaceutical Ethics and Economics. 1 |               |                  |

#### EXAMINATIONS.

The examinations will be held in April. Applications accompanied by the proper certificates and fees (see p. 49.) must be made to the Secretary of the Faculty of Arts and Science at least one month before the date of examination.

The papers shall be set in accordance with the following schedule:

1. Theoretical and Practical Physics.
2. Theoretical and Practical Chemistry, and Toxicology.
3. Botany, including Microscopy.
4. Materia Medica, including Posology and Pharmacognosy.
5. Theory and Practice of Pharmacy, including interpretation of prescriptions and Dispensing.

### Course in Engineering

The following course is prescribed for students who look forward to completing courses in Civil, Electrical, Mechanical or Mining Engineering in the Nova Scotia Technical College or other technical institution. This course corresponds to the requirements prescribed for admission to the courses for a degree in Engineering in the Nova Scotia Technical College. It extends over two years and covers the work usually included in the first two years of a four years' course in the above branches of Engineering.

For admission to the first year of the course a candidate must have passed in at least the Mathematics of the Engineering Matriculation (p. 12). A candidate who has not met this requirement, but who has passed the ordinary Matriculation (pp. 10-11), is admitted to the classes in Mathematics, English, and foreign languages of the Arts and Science course, which qualify for entrance to the course in Engineering.

In the following schedule the time required for the work of each class in lecture-room and laboratory or drawing-room is expressed in hours per week for the session. Details of the class-work and hours of meeting of classes will be found under Courses of Instruction (p. 51, *et seq.*)

#### UNIFORM COURSE FOR ALL BRANCHES OF ENGINEERING.

|  | First Year    |                  |
|--|---------------|------------------|
|  | LECTURE HOURS | LABORATORY HOURS |
| Mathematics 3 .....                    | 3             |                  |
| Mechanics .....                        | 2             |                  |
| Chemistry 1A .....                     | 3             | 4                |
| Geology 1A .....                       | 3             | 3                |
| English 2 .....                        | 3             |                  |
| Drawing 1 (Mechanical Drawing) ...     | 0             | 10               |
| Drawing 2 (Descriptive Geometry) ...   | 1             | 2                |
| Shop-work .....                        |               |                  |
| <b>Second Year</b>                     |               |                  |
| Mathematics 4 (Calculus) .....         | 3             |                  |
| Physics 1A (General Physics) .....     | 3             |                  |
| Physics 6 (Laboratory) .....           | 0             | 5                |
| Chemistry 4 (Qualitative Analysis) ... | 1             | 5                |
| Kinematics of Machines .....           | 3             |                  |
| Surveying .....                        | 2             | 6                |
| Shop-work .....                        |               |                  |

For those who have passed only the ordinary Matriculation (p. 10) three years will be necessary to complete the requirements of the Nova Scotia Technical College course, and the following curriculum is recommended:—

FIRST YEAR:—English 1, French 1, Mathematics 1, Drawing 1, Chemistry 1A, Geology 1A.

SECOND YEAR:—English 2, Mathematics 3, Drawing 2, Chemistry 4, Mechanics.

THIRD YEAR:—Mathematics 4, Physics 1 and 6, Kinematics, Surveying.

### General Regulations

#### MATRICULATION.

1. Candidates for a degree must pass the Matriculation examination (pp. 10-13). Only those classes which a student attends as an undergraduate or matriculant are recognized as qualifying for a degree in Arts or Science.

2. A matriculant pursuing a course for a degree in Arts, Science or Music must complete his Matriculation

before entering the classes proper to the \*second year of his course; and no class which he may subsequently attend as a matriculant is recognized as qualifying for a degree.

3. A matriculant in Engineering must complete his Matriculation before entering the classes proper to the second year of his course.

#### ADMISSION TO CLASSES.

1. An undergraduate may enter the first year of any course leading to a degree.

2. A Matriculant deficient in more than one subject of Matriculation shall not be admitted to more than four classes of a course for a degree.

3. A matriculant deficient in one of the required foreign languages, whose preparation in this language has not covered any considerable part of the work prescribed for Matriculation, shall not be admitted to more than three undergraduate classes; and, if deficient to a similar extent in the two required foreign languages, he shall not be admitted to more than two undergraduate classes. The Committee on Admission may, however, at their discretion, waive this regulation in the case of a student whose standing in the other subjects of Matriculation is high.

4. Classes are to be taken in the order of their advancement; and the class or classes specified under Courses of Instruction (p. 51 *et seq.*) as preliminary or pre-requisite to a given class must be taken before such class. No undergraduate or matriculant shall be admitted to a class until he has passed the preliminary class or classes or other preliminary qualifications required.

5. Five classes shall be regarded as constituting a normal year's work for a student in good standing. Students seeking admission to six classes must make written application to the Committee on Studies, furnishing reasons in support of their application. No student who has failed in any class of his course in the preceding year of his attendance shall be admitted to more than five classes.

6. Students shall not be permitted to continue during the second term in more than two of the classes in which they have failed at the preceding Christmas examinations.

\*For the purpose of this regulation five classes shall be regarded as constituting a year.

## ADMISSION TO ADVANCED STANDING.

Students entitled to matriculant or undergraduate standing in Arts or Science who present any of the certificates specified below, shall be given credit for such classes in the following list, not exceeding five in number, as their certificates warrant:

Latin 1, Greek 1, French 1, German 1, English 1, Mathematics 1.

Candidates shall be allowed Supplementary examinations in the subject or subjects required to complete five classes, provided their certificates show a mark of at least 30 per cent. in such subject or subjects. No credit shall be given for certificates obtained subsequent to registration in the University for the first time. The certificates to which these provisions apply are the following:

- (a) High School Certificate of Grade XII of Nova Scotia.
- (b) Honour Diplomas, as issued by the Prince of Wales College, P. E. I.
- (c) Grammar School Licenses of New Brunswick.
- (d) Diplomas of the Associate Grade, as issued by the Education Department of Newfoundland (except in the mathematical subject).

## ATTENDANCE.

Candidates for a degree or certificate are required to attend the classes of their prescribed course regularly and punctually. Attendance is recorded in each class immediately before the work of the class is begun, and the record is not amended in the case of students entering thereafter unless satisfactory reasons are assigned. A student's attendance on a given class is not under ordinary circumstances regarded as regular, unless he has attended at least nine-tenths of the lectures or other meetings of the class.

A student whose attendance on any class is irregular may be excluded from the Christmas and Spring examinations in that class, and in such case his attendance is not recognized as qualifying for a degree.

## CLASS-WORK.

Candidates, in order that their class-work may be recognized as qualifying for a degree or certificate, must conform to the following requirements:—

1. They must appear at all examinations, prepare such essays, exercises, reports, etc., as may be prescribed,

\*The standard required in the certificate for Grade XII issued by the Education Department of Nova Scotia in 1908 and subsequent years is 50 per cent. (See also footnote p. 11).

and in the case of a class involving field or laboratory work, complete such work satisfactorily. Failure to meet these requirements in any class may involve loss of credit for attendance in such class.

2. They must secure positions on the Pass list. In determining this list both the standing attained in prescribed class exercise and in field or laboratory work and that in the various examinations are taken into consideration. A candidate who fails to obtain a mark of at least 20 per cent. on the work of the session in any class shall lose credit for attendance in such class.

3. A candidate taking an affiliated course must, in the case of classes taken in another Faculty, conform to the regulations of such Faculty and must secure a position on the pass list in accordance with such regulations.

## Examinations

## SESSIONAL AND CLASS EXAMINATIONS.

In all classes other than purely laboratory classes, two examinations, at least, are held,—the Christmas examination immediately before the Christmas vacation, and the Spring examination, after the close of lectures in the Spring. Other examinations in any class may be held, at dates appointed by the instructor. The papers set at the Spring examination in any subject cover the work of the whole session in that subject, and not merely the work of the Spring term.

## DISTINCTION EXAMINATIONS AND CLASS DISTINCTION.

Students who attain a certain standard of excellence in the work of a class are awarded Distinction in that class. In some classes, in addition to the ordinary work required for the attainment of a position on the Pass list, additional work, consisting of private reading, essays, reports, field or laboratory work, may be prescribed for students who aim at Class Distinction. In such classes extra examinations are held in this additional work at the end of the session, and the award of Distinction is based upon the ordinary and the additional work of the class. In all other classes the award is made upon the standard reached in the ordinary class-work.

Class Distinctions are of two grades.—First and Second Class; but candidates who attain a standing considerably above that required for First Class will be indicated as having obtained a High First Class.

Names are arranged in the Distinction division of the lists in order of merit in each grade; but in the Pass division in alphabetical order.



## SUPPLEMENTARY AND SPECIAL EXAMINATIONS.

A student who fails to secure a position on the Pass list in any class, but who has otherwise completed his class-work, shall be allowed the Supplementary examination in such class at the beginning of the next session of his attendance, on the day appointed in the University Almanac. A student who fails to appear at or to pass the Supplementary examination can only get credit for that class by passing a Special examination therein.\*

Supplementary or Special examinations in any class shall in all cases cover the whole work of the session in that class, and not merely the work of the Autumn or Spring term.

The following are the times at which Special examinations may be held:—

- (a) During the Supplementary examinations in September.
- (b) During the first week of lectures in January.

No award of Class Distinction is made on the results of a Supplementary or Special examination.

A student wishing to appear as a candidate at a Supplementary or Special examination, shall be required to give notice of his intention to the Secretary of the Committee on Studies and Attendance on or before the date set for such notice in the University Almanac, the fee to be remitted with the notice. For fees for Supplementary and Special examinations, see p. 49.

## Prizes and Scholarships

*The Senate reserves to itself the right of withholding Medals, Prizes and Scholarships, in cases in which sufficient merit is not shown.*

## ENTRANCE SCHOLARSHIPS.

**SIR WILLIAM YOUNG AND PROFESSORS' SCHOLARSHIPS.**—These scholarships, twelve in number, each of the value of Fifty Dollars, are awarded to qualified students entering one of the courses in Arts, or Science, leading to a degree. They are tenable for one year and are payable in two equal instalments, on October 1st and February 1st, the latter payment being conditional on the scholar having made satisfactory progress in his classes. In order to qualify for a scholarship a student must satisfy the require-

\*Students who have failed to pass in any class should carefully note that any examination taken subsequent to the Supplementary examination, held in September of the next session of their attendance is a Special examination.

ments for Matriculation, either by passing the Matriculation examination or by presenting a certificate accepted as an equivalent, or by a combination of these (certificate supplemented by examination). The award is made on the recommendation of one of the schools named below. In making a recommendation the school is required to have regard to the candidate's standing only in the subjects required for Matriculation. Should a school not be prepared to make a nomination at the time appointed, it may transfer its privilege to the next year in which it has no nomination. Where one scholarship is assigned to two schools and neither nominates, the right to nominate may be transferred to a later date.

The privileges of recommending a scholar in 1913, and probably in 1914, has been granted to the Prince of Wales College, Picton Academy, Truro Academy, Halifax Academy, Sydney Academy, and the New Glasgow High School. To the following the privilege is also given, viz.: In 1913, Amherst Academy, Guysboro Academy, North Sydney High School, Shelburne or Liverpool Academy, Stellarton or Oxford High School, Bridgewater or Parrsboro High School; in 1914, Annapolis or Digby Academy, Kentville Academy, Lunenburg Academy, Sydney Mines High School, Windsor Academy, Yarmouth Academy. This list will be revised each year. When a nomination is offered to one of two institutions, the candidate standing the highest will be appointed.

**THE MACKENZIE BURSARY.**—The Mackenzie Bursary, of the value of Two Hundred Dollars, will be open to competition annually among those obtaining Distinction at the University Matriculation examination held in September, in accordance with the following condition of bequest:—Competitors of the name of Mackenzie, Maclean or Fraser, will be given the preference. Should no candidate of the name of Mackenzie, Maclean or Fraser obtain Distinction, the Bursary will be awarded to the candidate standing highest among those obtaining Distinction.

The Bursary is payable in four annual instalments; and the payment of any instalment is conditional on the bursar's attending the classes required for undergraduates, and making satisfactory progress therein.

## UNDERGRADUATE PRIZES.

**NORTH BRITISH SOCIETY BURSARY.**—A Bursary of the annual value of \$60, founded by the North British Society of Halifax, will be awarded biennially. Candidates must be undergraduates in a course in Arts and Science

who are just completing two years of residence, and must be eligible at the proper age for membership in the North British Society. The Bursary will be awarded to the candidate standing highest in the examinations in any five classes selected by himself from the following: Latin 2, Greek 2, French 2, German 2, English 2, Philosophy 1, Mechanics, Physics 1, Chemistry 2, Mathematics 2, Mathematics 4. It is tenable for two years, namely, during the third and fourth years of residence, but its tenure during the fourth year is conditional on the bursar having made satisfactory progress in the classes of his third year. The next award will be made in April, 1914.

**THE WAVERLEY PRIZE.**—This prize, the interest of an endowment of \$1000, will be awarded annually to the student standing highest in Mathematics 4, his standing in Mathematical classes previously taken in the University being taken into consideration. The winner of the North British Society Bursary is not eligible for this prize.

**THE JOTHAM BLANCHARD BURSARY.**—This Bursary, the interest of an endowment of \$1,000, founded by the New Glasgow Literary and Historical Society in memory of Jotham Blanchard, an honoured name in the annals of Pictou County, will be awarded annually. Candidates must be undergraduates who are just completing the first year of a course in Arts or Science. The Bursary will be awarded to the candidate standing highest in the examinations in the following classes: English 1, Mathematics 1, Chemistry 1 or 1A, and any two of the four classes, Latin 1, Greek 1, French 1, German 1. The Bursary is tenable during the bursar's second year of residence and is payable in two equal instalments, on October 1st and February 1st, the latter payment being conditional on the bursar having made satisfactory progress in his classes.

**THE INDUSTRIAL CANADA SCHOLARSHIPS.**—The Canadian Manufacturer's Association have offered for the best Essay on certain aspects of Canadian Industry, two cash prizes of the value of \$60 and \$30 respectively. The Scholarships are known as Industrial Canada Scholarships, and the winning Essays become the property of the Association to be published in its Magazine, "Industrial Canada."

Competitors must be enrolled as undergraduates of this University. The Essays must be of approximately 3500 words in length, and are to be handed in not later than October 1st, 1913. The list of subjects can be had from the Secretary of the Faculty.

\*For students who have been admitted by certificate to the second year read "one" for "two."

#### GRADUATION PRIZES.

**THE GOVERNOR-GENERAL'S GOLD MEDAL,** offered by His Excellency the Governor-General of the Dominion of Canada, will be awarded to the undergraduate standing highest among those taking High Honours in the department of Classics, provided he attain a standard considerably above that required for High Honours; the winners of other medals being excluded. In the event of its not being awarded in this department, it may be awarded in the department of Latin and English, or in that of Greek and English, or in some other department.

**THE SIR WILLIAM YOUNG GOLD MEDAL,** founded by bequest of the late Sir William Young, will be awarded on graduation to the student who stands first among those taking High Honours in Mathematics, on the same conditions as the Governor-General's Gold Medal.

**UNIVERSITY MEDALS** will be awarded on graduation to students who take High Honours in other departments than Classics and Mathematics, on the same conditions as the Governor-General's Gold Medal.

**THE AVERY PRIZE.**—This prize, the interest of \$500, bequeathed for this purpose by the late J. F. Avery, M. D., will be awarded on graduation to the student standing highest among those graduating with Distinction.

#### THE RHODES SCHOLARSHIPS.

The scholarships, established by the late Right Hon. Cecil J. Rhodes for male students, are of the annual value of £300, and are tenable for three consecutive academic years. The holders of these scholarships are required to continue their studies at the University of Oxford.

The election of scholars in Canada takes place each year during the month of January. The scholars begin residence at Oxford in October of the year for which they are elected.

In this Province it was determined that nominations to the scholarships be made by the chartered Universities and Colleges in the following order:—

|                     |                              |
|---------------------|------------------------------|
| 1904.....Dalhousie. | 1911.....St. Francis Xavier. |
| 1905.....Acadia.    | 1912.....Acadia.             |
| 1906.....Dalhousie. | 1913.....Dalhousie.          |
| 1907.....Acadia.    | 1914.....Acadia.             |
| 1908.....Dalhousie. | 1915.....Dalhousie.          |
| 1907.....Kings.     | 1916.....Kings.              |
| 1910.....Dalhousie. | 1917.....Dalhousie.          |

Where Universities make appointments the Trustees require the final decision to be made through a Committee of Selection consisting of the President or Principal and four members elected by the Faculty of the University.

The conditions of eligibility for a Canadian Scholarship, according to a memorandum issued by the Trustees, are as follows:—

1. Candidates shall be British subjects, and unmarried. They shall have passed their sixteenth, but not have passed their twenty-fifth birthday, on October 1st of the year for which they are elected.
2. An elected Scholar shall have reached at least the end of his sophomore or second year's work in some recognized degree-granting University or College of Canada.
3. Candidates may elect whether they will apply for the Scholarship of the Province in which they have acquired any considerable part of their educational qualification, or for that of the Province in which they have their ordinary private domicile, home or residence. They shall be prepared to present themselves for examination on election in the Province they select. No candidate may compete in more than one Province, either in the same or in successive years.
4. Only candidates who have passed an equivalent to the Oxford Responsions Examination, or those who are exempted from Responsions by the Colonial Universities' Statute, are eligible for election.

NOTE.—Undergraduates of this University who have taken a full course for two years, including Greek, and are admitted to advanced standing at Oxford, and are excused from Responsions.

In any doubtful cases of eligibility the decision of the Committee of Selection shall be final.

#### 1851 EXHIBITION SCIENCE RESEARCH SCHOLARSHIP.

Her Majesty's Commissioners for the Exhibition of 1851 have, for some years, offered Scholarships in certain Universities of the United Kingdom and the Colonies, with the intention of enabling students of science who have indicated high promise of capacity for original research to continue the prosecution of science with the view of aiding in its advance or in its industrial applications. In 1894 and alternate years since, the nomination to one of these Scholarships has been placed at the disposal of this University. It is expected that a similar nomination will be placed at the disposal of the University in 1914.

These Scholarships are of the annual value of one hundred and fifty pounds sterling; are tenable for two years, subject to fulfilment of certain conditions, or, by special resolution of the Commissioners, for three years; and are

open to women as well as to men. Copies of the conditions of nomination may be had on application at the President's office.

In cases in which the candidate nominated for a Scholarship appears to H. M. Commissioners to have had insufficient opportunity of showing whether or not he has the power to carry on independent research, and not therefore to be immediately qualified for a Scholarship, but to give promise of becoming so after a year's experience of research work, said candidate also not being in a position to continue his studies without assistance, H. M. Commissioners may award him a Probationary Bursary. The regulations under which such Bursaries are tenable may be obtained on application to the President of the University.

Students who desire to become candidates for nomination to the above Scholarship must make application to the President of the University on or before the 1st day of February. In making such application they must furnish a statement of the following particulars:—

- (a) Name and address.
- (b) Age and birth place.
- (c) Institution or institutions in which candidate's term of study has been passed.
- (d) Specific statement of qualifications of candidate, including particulars of his college career, and of original research in which he has been engaged.
- (e) Name of institution to which candidate proposes to attach himself during the tenure of Scholarship.
- (f) Statement of the particular scientific work, specifying the branch of science, to which the candidate proposes more especially to devote himself.
- (g) Statement as to whether or not the candidate will be prepared to accept a probationary Bursary in the event of the Commissioners being unable to award a full Scholarship on the evidence submitted, and in the event of his being prepared, a further statement as to his being unable to continue his studies without assistance.

As the University is required to certify the correctness of the above statement in the case of the candidate nominated, the statement must be accompanied by satisfactory evidence as to all particulars which are not in the University records. Thus age, attendance at other Universities or Colleges, and accounts of original researches conducted elsewhere, must be properly attested.

### Students Loan Fund.

A student's Loan Fund has been started by the gift of \$1000 for the purpose from the Chronicle Publishing Co., Limited, of Halifax. For information concerning the rules under which loans are granted application may be made to the President. It is hoped that other donations will be made to increase the fund for this desirable purpose.

### Fees

#### FOR REGISTRATION.

Registration, payable by students taking one or more classes ..... \$ 5 00\*  
Additional, payable by all students registering after the first Tuesday after the beginning of Lectures.... 1 00

The Registration Fee entitles a student to the use of the University Library.

#### FOR TUITION.

*All Fees are payable in advance, and until the Fees are paid the student will not receive credit for attendance upon any class.*

For each class (excepting purely laboratory or drawing classes, and exclusive of extra fee required for classes involving work in laboratory or draughting-room), payable by students taking less than five classes ..... \$ 9 00  
Ditto, payable by students taking more than four classes \$ 00  
†Additional for each class involving work in laboratory or draughting-room ..... 4 00  
†For each purely laboratory or draughting-room class ... 12 00  
For changing course of study after October 1st, charge for adding or substituting a class ..... 1 00

A class taken a second time is charged for as if taken for the first time, except as stated below.

Up to and including October 1st a student may retire from a class for which he has paid, and his class fee will be refunded; but if he retire after that date, his fee will not be refunded, except as stated below.

If a student is compelled to withdraw from college before December 1st through illness or for some other approved reason, one-half of his tuition fees will be refunded. If for like reasons he is compelled to withdraw between that date and February 1st he will be allowed to take his classes a second time at half rates.

\*Students who register only for the purpose of taking examinations are exempt from the payment of this fee.

†See Laboratory Deposit, p. 49.

### FOR EXAMINATIONS.

*An application for Examination must be accompanied by the proper fee.*

Matriculation examination at outside centre ..... \$ 5 00  
†Each Supplementary examination in Arts or Science.... 2 00  
†Each Special examination in Arts or Science ..... 4 00  
Examination for the degree of B. Mus., First Year..... 10 00  
" " " " Second Year ..... 15 00  
" " " " Third Year ..... 20 00  
" " " " diploma of L. Mus., First Year..... 10 00  
" " " " Second Year ..... 15 00  
" " " " degree of Phis. B. .... 10 00  
Each Supplementary examination in Music or Pharmacy. 5 00  
Examination for the degree of M. A. or M. Sc. taken elsewhere than at the University ..... 10 00

### FOR CERTIFICATES AND DIPLOMAS.

*An application for a Certificate or Diploma must be accompanied by the proper fee.*

Certificate under the University seal..... \$ 1 00  
B. A. or B. Sc. or L. Mus. diploma ..... 5 00  
B. Mus. or Phis. B. diploma ..... 10 00  
M. A. or M. Sc. diploma (whether given on examination or thesis) ..... 20 00  
Ad eundem gradum diploma ..... 10 00  
Additional fee for any degree conferred in absentia ..... 5 00

### Caution Deposit

Each male student on registration is required to deposit two dollars as caution money to cover damage done to furniture, apparatus, etc. This amount, less deductions (if any), will be returned at the close of the session. There shall be no deduction from the Caution Fund for damages which have been charged to or assumed by individuals.

### Laboratory Deposit

A student taking a class involving laboratory work is required to make a deposit of five dollars on entering the class. This amount, or what remains of it after deducting any charges which may have been incurred for breakage or materials used, is returned to the student at the end of the session.

†A matriculation examination taken by a student after his second Autumn term of attendance at the University will be charged for as a Supplementary or Special examination, according to the time when the examination is taken.

## Fee for Support of Student Organisations

At the request of the student body, as expressed by a ballot taken on the question and presented through The Council of the Students, a fee of \$5.00 will be collected on registration from each student who takes more than one class. This fee entitles the student to the privileges of any or all of the following student organizations: Dalhousie Amateur Athletic Club, Dalhousie Skating Club, Dalhousie Young Women's Christian Association, Delta Gamma, Dalhousie Dramatic Club, Sodales, and to a copy of the Dalhousie Gazette. A student taking only one class and desiring to take part in one or more of the above organizations must pay the fee of \$5.00.

## COURSES OF INSTRUCTION

### I.—CLASSICS

(McLeod Professorship.)

Professor ..... HOWARD MURRAY, B. A., LL. D.  
Tutor ..... FRANK D. GRAHAM, B. A.

#### LATIN.

- 1. Mondays, Wednesdays and Fridays, 11 A. M.—12 M.**  
(After Christmas this class will be conducted by the Tutor.)  
*Pre-requisite*.—Matriculation Latin.  
Cicero, *Orationes against Catiline*; Vergil, *Æneid*, Book VI, \*Cicero, *De Imperio Gnaei Pompei (Pro Lege Manilia)*; \*Vergil, *Æneid*, Book IV. Latin Prose Composition. Exercises in Sight Translation.  
*BOOKS RECOMMENDED*: Cicero, *Selected Orationes and Letters*. (Kelsey's, Allyn & Bacon, Boston, \$1.25). Vergil, *Æneid*, Book VI. (Page's, Macmillan, Toronto, 35 cents). Vergil, *Æneid*, Book IV. (Stephenson's, Macmillan, Toronto, 35 cents). Bradley's *Æneid's Latin Prose Composition*. (Longmans, London, 3s.) Allen & Greenough's *New Latin Grammar*. (Ginn & Co., Boston, \$1.25).
  - 2. Mondays, Wednesdays and Fridays, 10—11 A. M.**  
*Pre-requisite*.—Latin 1.  
Livy, Book I; Horace, *Odes*, Books I and II; \*Livy, *Selections from Books I-VIII* (as in Dennison's edition); \*Vergil, *Æneid*, Book V. Latin Prose Composition. Exercises in Sight Translation.  
*BOOKS RECOMMENDED*: Livy, Book I and *Selections Books II-X*. (Dennison's, Macmillan, Toronto, 60 cents). Horace, *Odes*, Books I and II. (Page's, Macmillan, Toronto, each 35 cents). Bradley's *Æneid's Latin Prose Composition*.
  - 3. [1914-15.] Tuesdays and Thursdays, 10—11 A. M.**  
*Pre-requisite*.—Latin 2.  
Tacitus, *Historiae*, Book I; Horace, *Selected Satires*; \*Tacitus, *Historiae* Book II; \*Vergil, *Bucolics*. Latin Prose Composition. Exercises in Sight Translation.
  - 4. [1913-14.] Tuesdays and Thursdays, 10—11 A. M.**  
*Pre-requisite*.—Latin 2.  
Plautus, *Trinummus*; Juvenal, *Satires*, III, V, X, XIII; Tacitus, *Germania*. \*Tacitus, *Annals*, Book IV. \*Lucretius, *De Rerum Natura*, Book III. Latin Prose Composition. Exercises in Sight Translation.  
*BOOKS RECOMMENDED*: Plautus, *Trinummus*. (Prosser & Simpson's, Oxford University Press, 3s.). Juvenal, (Hardy's, Macmillan, \$1.25). Tacitus, *Germania*. Church & Brederick's, Macmillan, 50 cents). Tacitus, *Annals*, Books I-IV. (Fitzroy's, Oxford University Press, 5s.). Lucretius, Book III. (Dun's, Cambridge University Press, 2s.).
- In all Latin examinations one or more passages from books not prescribed will be set for translation at sight.

\* For private reading by students seeking First or Second Class Distinction.

## GREEK.

1. *Tuesdays and Thursdays, 10—11 A. M.; Fridays, 2—3 P. M.*  
(Conducted by the Tutor.)

*Pre-requisite.*—Matriculation Greek.

Thucydides, *Selections*; \*Xenophon, *Apocrypha*. Greek Prose Composition. Exercises in Sight Translation.

BOOKS RECOMMENDED: Thucydides, *Easy Selections*, (Moore's, Longmans, 2s. 6d.). Xenophon, *Apocrypha*, (Hullstone's, Cambridge University Press, 2s. 6d.). North & Hillard's *Greek Prose Composition*, (Livingstone, London, 3s. 6d.). Goodwin's *Greek Grammar*, (Ginn & Co., Boston, \$1.50).

2. *Tuesdays and Thursdays, 11 A. M.—12 M.*  
*Pre-requisite.*—Greek 1.

Lucian, *Selected Dialogues*; Homer, *Odyssey*, Book IX; \*Lucian, *Timon* (as in Inge & Macnaughten's edition). \*Homer, *Odyssey*, Book XII. Greek Prose Composition. Exercises in Sight Translation.

BOOKS RECOMMENDED: Lucian, *Selections*, (Inge & Macnaughten's, Longmans, 2s. 6d.). Homer, *Odyssey*, Book IX, (Edwards', Cambridge University Press, 2s. 6d.). *Odyssey*, Book XII, (von Minckwitz's, Ginn & Co., Boston, 4s. cents). North & Hillard's *Greek Prose Composition*, (Livingstone, London, 3s. 6d.).

3. [1914-15] *Tuesdays and Thursdays, 12 M.—1 P. M.*  
*Pre-requisite.*—Greek 2.

Demosthenes, *Philippica*, I-III; Euripides, *Medea*; \*Demosthenes, *Olysthiacs*; \*Euripides, *Alexis*. Greek Prose Composition. Exercises in Sight Translation.

4. [1913-14] *Tuesdays and Thursdays, 12 M.—1 P. M.*  
*Pre-requisite.*—Greek 2.

Plato, *Apology and Crito*; Aristophanes, *The Clouds*. \*Homer, *Iliad*, Books I, II (1-493) and VI. Greek Prose Composition. Exercises in Sight Translation.

BOOKS RECOMMENDED: Plato, *Apology and Crito*, (Wagner's Geo. Bell & Sons, 2s. 5d.). Aristophanes, *The Clouds*, (Merry's Oxford University Press, 3s.). Homer, *Iliad*, Books I-VI, (Seymour's, School Book I-VI, Ginn & Co., Boston, \$1.75).

In all Greek examinations one or more passages from books not prescribed will be set for translation at sight.

## ADVANCED CLASSES.

|                |   |
|----------------|---|
| Professor..... | HOWARD MURRAY, B. A., LL. D.                |
| Lecturers..... | (J. W. LOGAN, M. A.<br>G. K. BUTLER, M. A.) |

LATIN 5.—Terence, *Phormio*. Vergil, *Georgics*, I, IV. Horace, *Epistles*, I, II, *Art Poetica*. Juvenal, *Satires*, I, VII, VIII, XIV. Cicero, *Philippic* I, *Pro Cluentio*. Livy, XXI, XXII.

LATIN 6.—Plautus, *Cupido*, *Miles Gloriosus*. Terence, *Adelphi*. Cicero, *Philippic* II, *De Oratore* I. Tacitus, *Annals* I, II; *Agricola*. Pliny, *Letters*, Books I-III.

GREEK 5.—Aeschylus, *Eumenides*, *Prometheus Bound*. Sophocles, *Oedipus Colonus*. Aristophanes, *Frogs*. Thucydides, II. Plato, *Republic*, I-IV.

\* For private reading by students seeking First or Second Class Distinctions.

GREEK 6.—Homer, *Odyssey*, V-VIII. Sophocles, *Philoctetes*. Aristophanes, *Knights*. Thucydides, III. Demosthenes, *De Corona*. Aristotle, *Poetics*.

## ELEMENTARY LATIN.

*Mondays, Wednesdays, Fridays and Saturdays, 10—11 A. M.*

This class, which is conducted by the Tutor, is intended for beginners in the language, and for those whose work has been insufficient to qualify them for admission to Latin I. Students whose work throughout the session has been satisfactory will be admitted to a Matriculation examination in Latin, held in April.

As it will not be possible to cover in class all of the reading required for Matriculation, students intending to qualify for the above examination must do a considerable part of the reading by private work, and must be prepared to devote much more time to the subject outside of class hours than is required in the ordinary undergraduate class.

The first book to be used will be Collar & Daniell's *First Year Latin*, (Ginn & Co., Boston, \$1.00). Other books will be announced at the beginning of the session.

## ELEMENTARY GREEK.

*Mondays, Wednesdays, Fridays and Saturdays, 12 M.—1 P. M.*

This class, which is conducted by the Tutor, is intended for beginners in the language, and also for those who have come to college without sufficient preparation to qualify them for entering Greek I. The books used will be White's *First Greek Book*, (Ginn & Co., Boston, \$1.25); and Colson's *First Greek Reader*, (Macmillan & Co., Toronto, 75 cents).

Students whose work throughout the session has been found satisfactory will be admitted to a Matriculation examination in Greek, held in April. Those intending to qualify for this examination should read the statement made under Elementary Latin which is applicable here also, regarding the additional work required outside of class hours.

## II.—NEW TESTAMENT GREEK

*Tuesdays, Wednesdays, Fridays and Saturdays, 12.50 P. M.*  
*Pre-requisite.*—Greek 1.

The class and examinations in New Testament Greek, conducted by Professor J. W. FALCONER, M. A., D. D., in the Presbyterian Theological College, Halifax, are recognized as qualifying for a degree. Similar classes in other Theological Colleges approved by the Faculty, are also recognized for the same purpose.

The work of the class consists of the interpretation of the Gospels. Lectures are also given on the language of the New Testament, the principles of Textual Criticism, introduction to the Gospels, and problems arising out of the Gospel narratives.

TEXT BOOKS: Westcott and Hort's, or the Bible Society's new edition of the *New Testament in Greek*. E. R.ieuille, *Introduction to N. T. Greek*; Lake, *The Text of the New Testament*; Matthews, *A History of the New Testament Times in Palestine*.

BOOKS RECOMMENDED: Moule, *Grammar of New Testament Greek*; Sunday, *Outline of the Life of Jesus Christ*.

## III.—HEBREW

Tuesdays, Thursdays, Fridays and Saturdays, 8.45 A. M.

The class and examinations in Hebrew, conducted by Professor H. A. KENT, M. A., in the Presbyterian Theological College, Halifax are recognised as qualifying for a degree. Similar classes in other Theological colleges approved by the Faculty are also recognised for the same purpose.

The aim of this class is to enable students to read any of the narrative parts of the Hebrew Scriptures. The first part of the session is devoted entirely to thorough study and practice of the language. After the Christmas vacation two days a week are devoted to grammar and composition and two days to reading of Genesis, Samuel, Kings and other books.

TEXT BOOKS: KITHI, *Storia Ebraica*, or *Hebrew Bible*, issued by B. and F. B. Society, Davidson, *Hebrew Grammar*.

BOOKS RECOMMENDED: Fagnani, *Primer of Hebrew*. Gesenius-Kautsch, *Hebrew Grammar*, (Trans. by Collins and Cowley). Brown-Driggs-Deiter, *Hebrew* London.

## IV.—MODERN LANGUAGES.

(McLeod Professorship.)

Professor.....HOWARD P. JONES, PH. D.

## FRENCH.

\*1. Tuesdays and Thursdays, 10—11 A. M. or 2—3 P. M.

Pre-requisite.—Matriculation French.

Sauvion, *Essai et Paroles* (Macmillan & Co.); Cornille, *Le Cid* (Holt & Co.); Brazin, *Contes Choisis* (D. C. Heath & Co.); Weekley, *Groundwork of French Composition* (Univ. Tut. Press). Exercises in Syntax and Sight Translation. Additional for Distinction: Gréville, *Décis* (Heath & Co.); De la Brète, *Mos Gaule et son Caré* (with exercises, Macmillan & Co.).

2. Tuesdays and Thursdays, 9—10 A. M.

Pre-requisite.—French I.

Bazin, *Les Oberlé* (Holt & Co.); Delavigne, *Louis XI*; Taline, *Selections* (Blackie & Son). French Prose Composition, Conversation, Dictation. Weekley's *Primer of French Literature*. Additional for Distinction: Hugo, *Selections in Prose and Verse*, Herment (Holt & Co.).

3. [1914-15] Tuesdays and Thursdays, 9—10 A. M.

Pre-requisite.—French I.

Barlet and Mason, *French Prose Reader* (Univ. Tut. Press); Mollire *Le Misanthrope*, Gauthier, *Scenes of Frezel* (Clarendon Press). French Prose Composition, Conversation, Dictation. History of French Literature with special reference to the 19th century. Weekley's *Primer of French Literature*. Additional for distinction: Hugo, *Les Misérables*; Cornille, *Nicoisade* (Macmillan & Co.).

4. [1914-15] Wednesdays and Fridays, 9—10 A. M.

Balzac, *Cramé Miroisif* (Whittaker & Co.); Rollan, *Selections* (Heath & Co.); Weekley, *A Higher French Reader* (Univ. Tut. Press). Advanced French Prose Composition (Spiers);

Conversation. Duval, *Histoire de la Littérature française* (Heath & Co.); Gazier, *Dictionnaire français* (Collin, Paris). Additional for Distinction: Balzac, *Expans Grandet*; Rostand, *Cyrano de Bergerac*; Daudet, *Littérature française* (selected period).

5. Wednesdays and Fridays, 9—10 A. M.

Balzac, *Pages Choisis* (Collin, Paris); La Fontaine, *Fifty Fables* (Am. Book Co.); Corneille, *Horace* (Heath & Co.); Weekley, *A Higher French Reader* (Univ. Tut. Press). Advanced French Prose Composition (Spiers); Galandry de Balzac, *Vocabulaire analytique* (Paris, Delagrave). Conversation. Duval, *Histoire de la Littérature française*. Additional for Distinction: Chéribier, *Le conte Kozis*; Mollire, *Les femmes savantes*; Faguet, *Dis-septième siècle*.

## GERMAN.

ELEMENTARY GERMAN. Mondays, Wednesdays and Fridays, 3—4 P. M.

Harris, *German Lessons* (D. C. Heath & Co.); Jones, *A German Reader* (D. Appleton & Co.) Exercises in Grammar and Composition.

This class will not count towards a degree; but students whose work throughout the session has been satisfactory will be admitted to a Matriculation examination in German, held in April.

1. Mondays and Fridays, 2—3 P. M.

Pre-requisite.—Matriculation German.

Schiller, *Wilhelm Tell* (Heath & Co.); Baumbach, *Der Schuttesroske* (Holt & Co.). German Syntax (von Jagemann). Prose Composition (Pape). Exercises in Sight Translation. Additional for Distinction: Storm, *Auf der Universität*. Schüler, *Maria Stuart* (Acts I, II and III).

2. [1915-16] Mondays, 9—10 A. M. Wednesdays, 2—3 P. M.

Pre-requisite.—German I.

Schiller, *Das Lied von der Glocke* (Heath & Co.); Freytag, *Soll und Haben* (Heath & Co.); Paszkowski, *Lesbach*. German Prose Composition, Conversation, Dictation. History of German Literature (selected period). Additional for Distinction: Sudermann, *Freie Sorge*; Scheffel, *Der Trompeter von Salzkinger*.

3. [1915-16] Wednesdays and Fridays, 9—10 A. M.

Pre-requisite.—German I.

Freytag, *Die Journalisten*; Heine, *Die Harzreise* (Ginn & Co.); Schiller, *Wallenstein Tod* (Heath & Co.); German Prose Composition, Conversation, Dictation. Eggenhaf, *Grundzüge der deutschen Literaturgeschichte*. Additional for Distinction: Dahn, *Ein Koenig von Rom*; Goethe, *Egmont*.

4. [1914-15] Wednesdays and Fridays, 9—10 A. M.

Pre-requisite.—German I.

Paszkowski, *Deutsche Lesbach*; Leasing, *Nathan der Weise*; Hatfield, *German Lyrics and Ballads*. German Prose Composition, Conversation, Dictation. History of German Literature (selected period).

Additional for Distinction: Hauff, *Lichtenstein* (ed. King, Holt & Co.); Fuhls, *Der Teufels*.

\*The University provides no instruction for beginners in French; but extra-mural classes will be formed, if a sufficient number of students apply, to provide instruction in French for Matriculation.

## V—BIBLICAL LITERATURE

Lecturers ..... PROFESSOR J. W. FALCONER, D. D.  
 PROFESSOR H. A. KEET, M. A.

There are two classes in the literature of the Old and New Testaments. Either one, but not both, of these classes may be offered as an elective for a degree in Arts.

1. [1914-15.] *Monday and Wednesday, 4-5 P. M.*

## OLD TESTAMENT.

The Hexateuch and Historical Books of the Old Testament and the pre-exilic Prophets. Lectures are given on the relation of Hebrew literature to the literatures of the ancient Orient, the various kinds of writing to be found in the Old Testament, and the structure and contents of the books themselves. An essay is required on a subject to be assigned by the Lecturer.

TEXT BOOKS: MacFadyen, *Introduction to the Old Testament*. Atter, *Prehistoric Archaeology and the Old Testament*. Curall, *The Prophets of Israel*. Relevant articles in Hastings' *Dictionary of the Bible*.

## NEW TESTAMENT.

The Gospels studied as the literary sources for the Teaching of Jesus.

BOOKS RECOMMENDED: Burton, *Introduction to the Gospels*. Relevant articles in Hastings' *Dictionary of the Bible*.

2. [1913-14.] *Monday and Wednesday, 4-5 P. M.*

## OLD TESTAMENT.

The exile and post-exilic Prophets, the Poetry and Wisdom literature. Lectures are given on the decline of prophecy, the rise of the Wisdom and Apocalyptic literature, and the character of Hebrew poetry. An essay is required on a subject to be assigned by the Lecturer.

TEXT BOOKS: MacFadyen, *Introduction*; Dada, *The Bible, Its Origin and Nature*; Saunders and Kent, *The Messages of the Bible*; Jackson, *Studies in the Old Testament*.

## NEW TESTAMENT.

The Apostolic Age, as portrayed in the books of the New Testament not studied in Course 1.

BOOKS RECOMMENDED: Ropes, *The Apostolic Age*.

## VI—ENGLISH LANGUAGE AND LITERATURE

(George Mason Professorship.)

Professor ..... ARCHIBALD MACMURCHAN, PH. D.

The course in English is mainly literary; the method pursued is historical. The different periods are studied in the representative works of the period; and in all cases actual acquaintance with the texts precedes criticism upon them. This part of the course is intended to furnish the student with an outline picture of English literature from Chaucer to Tennyson. The work for Class Distinction is meant to broaden the knowledge of more ambitious students. Special stress is laid upon composition. Practice is set before theory; the various exercises are corrected and preserved. The prompt and satisfactory performance of

the written work is a condition of examination. In the Advanced Classes, the aim of the instruction is to acquaint the student with the grammar of Old and Middle English, and to broaden his knowledge of Elizabethan literature.

1. *Tuesday and Thursday, 12-1 P. M.*

*Pre-requisite*.—Matriculation English.

COMPOSITION.—Twenty narrative and descriptive themes based on personal experience, and work read in class.

LITERATURE.—Eighteenth Century; Prose. Addison, *Papers Contributed to "The Spectator"*; Swift, *Voyage to Lilliput, Voyage to Brobdingnag*. Johnson, *Life of Pope*. (Macaulay, *Samuel Johnson*). Poetry. Dryden, *MacFlecknoe*, *St. Cecilia's Day*, *Alexander's Feast*, *Pope, Rape of the Lock*. Gray, *Italy in a Country Churchyard*; Goldsmith, *Traveler*, *Deserted Village*; Burns, *Two Dogs*, *Cotter's Saturday Night*.

For reference: Gosse, *History of Eighteenth Century Literature*.

Candidates for Class Distinction will be examined in these additional works which are not read in class. Dryden, *Absalom and Achitophel*, Pt. I; Pope, *Essay on Man*; Johnson, *Lives of Dryden, Addison and Gray*.

BOOKS RECOMMENDED: Bliss, *Lower English Prose* (containing all the poetry read in class); Addison ed. T. Arnold; Clarendon Press Series; Johnson, *Five Chief Lives*; ed. M. Arnold.

PARALLEL READING.—As a preparation for the course, the student is recommended to read the following works: Thackeray, *English Humourists*, Coopere and Addison, *The History of Henry Esmond* (bk. II, esp. xi, at least); Macaulay, *The Comic Dramatists of the Restoration*, Addison.

2. *Monday, Wednesday and Friday, 12-1 P. M.*

*Pre-requisite*.—English 1.

COMPOSITION.—Lectures on the Principles of Narration, Description and Exposition. Twenty expository themes, based chiefly upon the work in class.

LITERATURE.—Elizabethan. Shakespeare. Richard III, *Midsummer Night's Dream*, *Coriolanus*. Milton, *L'Allegro*, *Il Penseroso*, *Lycidas*, *Cosmos*, *Sonnets*, *Paradise Lost*, Bks. I, II. Lectures.

For reference Sidney Lee, *A Life of William Shakespeare*; Dowden, *Shakespeare Primer*; Salisbury, *History of the Elizabethan Literature*.

Candidates for Class Distinction will be examined in the following plays which are not read in class: *King John*, *Merchant of Venice*, *Rosset*.

PARALLEL READING.—As a preparation for this course, the student is recommended to read the following works: Kingsley, *Westward Ho!* Scott, *Kenilworth*. Hentzer, *Travels in England*, Harrison, *Description of England*. (Scott Library.) Macaulay, Milton.

3. *Tuesday and Thursday, 3-4 P. M. (Not given in 1913-14.)*

*Pre-requisite*.—English 2.

LITERATURE.—Middle English and Pre-Shakespearean. Chaucer, *Prologue*, *Knight's Tale*, *King's Priest's Tale* (ed. Skeat). Sweet, *Middle English Primer II*. Spenser, *Faerie Queene*, Bks. I, II. Marlowe, *Dr. Faustus*. Lectures.



History of Literature. Pollard, *Chaucer Primer*. For reference: Lounsbury, *Chaucer Studies*. Ten Brink, Morley, *English Writers*, V.

For Distinction: Chaucer, *The Prioresse's Tale*, *Sir Topas*, *The Monk's Tale*. The whole volume of Skout, with the exception of "The Squire's Tale."

4. *Monday and Wednesday, 3-4 P. M.* (Not given in 1913-14.)  
Pre-requisite.—English 2.

LITERATURE.—Nineteenth Century. Lectures: the historical and social background, the influence of the French Revolution, the predecessors of Wordsworth,—Cowper, Crabbe, Blake, Burns, Chatterton, Scott, *Old Mortality*, *Marmion*. Byron, *Poems*, edited by Matthew Arnold. Wordsworth, *Poems*, edited by Dowden. Coleridge, *The Rime of the Ancient Mariner*, *Christabel*, *Rubá Kásh*. Shelley, *Alastor*, *The Sensitive Plant*, *Adonais*, *The Cloud*, *The Skylark*, *Ode to Liberty*. Keats, *Sleep and Poetry*, *Odes*, *Sonnets*, *Hyperion*, *Ever of St. Agnes*, *La Belle Dame Sans Merci*.

History of Literature. Saintsbury, *History of Nineteenth Century Literature*. Heibel, *Age of Wordsworth*. Oliphant, *Literary History of England*.

For Distinction: A thesis on a subject assigned by the instructor.

This subject may be assigned at the end of the previous session and completed during the summer vacation. It should in any case be selected at the beginning of the session in which the student intends to present it, and must embody the results of an original literary investigation. The following are the titles of representative theses which have been accepted. Chatterton, *A Study in Style; The Relation of "Tristram Shandy" to "Anatomy of Melancholy"; Tennyson's Treatment of Colour in "The Idylls of the King"; "Alastor," edited with Introduction and Notes*. The thesis must be written on special thesis paper and bound. A copy must be deposited in the College Library.

5. *Monday and Wednesday, 5-4 P. M.*

LITERATURE.—Nineteenth Century. Tennyson, *The Lady of Shalott*, *Enone*, *Lotos-Eaters*, *Dress of Fair Women*, *Morte d'Arthur*, *Dora*, *Sir Galahad*, *Lord of Burleigh*, *Olympus*, *The Revenge*, *Rispañ*. Poems of Tennyson, ed. MacMechan, (*Belles Lettres series*). Browning, *Selections from Men and Women*. (Dant's one vol. ed.). *Andrea del Sarto*, *Epistle of Kerzhich*, *Memorabilia*, *Eccegn Hope*, *A Toccata of Galuppi*, *The Statue and the Bust*, *In a Balcony*, *The Last Ride Together*. Arnold, *Mycerians*, *The Sick King in Bokhara*, *The Strayed Reveller*, *Stanzas from the Grand Chatterbox*, *The Scholar Gypsy*, *Thyrsis*. Dickens, *David Copperfield*, (*Everyman's Library*). Thackeray, *Vanity Fair*, (*Everyman's Library*). Carlyle, *Sartor Resartus*, ed. MacMechan, (*Lithocracon Press Series*).

History of Literature. Saintsbury, *History of Nineteenth Century Literature*. Walker, *The Age of Tennyson*.

For Distinction, as in English 4.

6. [1913-14.] *Monday and Friday.*

OLD ENGLISH.—Bright, *Anglo-Saxon Reader*. Sievers, O. E. Grammar, trans. Cook. Slight translation from easy texts.

7. *Monday and Wednesday, 11-12 A. M.*

ELIZABETHAN DRAMA. Marlowe, *Tamburlaine*, *Edward II*, *The Jew of Malta*. Greene, *Friar Bacon and Friar Bungay*, *Jonson*, *The Alchemist*, *Every Man in His Humour*, *Ben Jonson and Fletcher*, *Philaster*, *The Knight of the Burning Pestle*, *Masques*, *A New Way to Pay Old Debts*. Webster, *The Duchess of Malfi*. Shakespeare, the Tragedies, *Two Noble Kinsmen*.

This course is conducted as a Seminary.

#### VII.—ECONOMICS AND HISTORY

Professor ..... JAMES EARLE TONG, M. A.

##### ECONOMICS.

1. *Tuesday and Thursday, 2-5 P. M.*

Subject: Economic Theory.

TEXT BOOKS: *Guido, Principles of Political Economy*; MILL, *Political Economy*.

EXTRA FOR DISTINCTION: Nicholson, *Principles of Political Economy*. Marshall, *Principles of Political Economy*.

2. *Monday and Wednesday, 11-12 A. M.*

Pre-requisite.—Economics 1.

Subject: Economic History of Britain, The Empire and The United States, since 1688.

TEXT BOOKS: *Meredith, Outlines of Economic History*; Bogart, *Economic History of the United States*.

EXTRA FOR DISTINCTION: Cunningham, *Growth of English Industry and Commerce*, Volume II. Mantoux, *La Révolution Industrielle au XVIII<sup>e</sup> siècle*. Webb, *History of Trade Unions*.

3. [1914-15.] *Monday and Wednesday, 11-12 A. M.*

Pre-requisite.—Economics 1.

Subject: Theory and History of Money and Banking.

TEXT BOOKS: *Jeans, Money*; Nicholson, *Money and Monetary Problems*; *Bagehot, Lombard Street*; *Conant, History of Modern Banks of Issue*; *Dodd, History of Money in the British Empire and the United States*.

##### HISTORY.

1. *Monday, Wednesday and Friday, 10-11 A. M.*

Subject: Ancient and Early Medieval History, 133 B. C. to 919 A. D.

2. [1914-15.] *Monday, Wednesday and Friday, 10-11 A. M.*

Subject: The Middle Age, 919-1414.

TEXT BOOKS: *Tout, The Empire and the Papacy*; *Lodge, The Close of the Middle Ages*.

EXTRA FOR DISTINCTION: Fisher, *The Medieval Empire*; Archer and Kingsford, *The Crusades*; Lavisse, *Histoire de France*, Vol. III.

3. *Tuesday and Thursday, 3-4 P. M.*

Subject: English History, 55 B. C. to 1367 A. D.

TEXT BOOKS: *Rassauw, Advanced History of England*; *Tout, Advanced History of Great Britain*.

EXTRA FOR DISTINCTION: *Maitland, Lectures on the Constitutional History of England*; *Hodgkin, Political History of England*; *Davis, England under the Normans and Angevins*; *South, Select Charters*.

4. [1914-15.] *Tuesdays and Thursdays, 3-4 P. M.*  
Subject: The History of Europe and of England in the Eighteenth Century.

TEXT BOOKS: *Hasall, Balance of Power; Ransome, Advanced History of England.*

EXTRA FOR REFERENCE: *Armstrong, Elizabethan France; Perkins, France under Louis XV.; Lock, History of England in the Eighteenth Century (selected portions).*

#### VIII—CONSTITUTIONAL HISTORY

The classes in Constitutional History, conducted by Professor Welden in the Faculty of Law, and the examinations conducted in this subject by the Faculty of Law, are recognized as qualifying for a degree in Arts, when offered by a student taking the affiliated course in Law.

#### IX—CONTRACTS, TORTS, AND CRIMES

The classes in Contracts, Torts, and Crimes conducted by the Faculty of Law, and the examinations conducted in these subjects by the Faculty of Law, are recognized as qualifying for a degree in Arts when offered by a student taking the affiliated course in Law.

#### X—PHILOSOPHY

(George Munro Professorship.)

Professor ..... JOHN LAIRD, M. A.

1. LOGIC AND PSYCHOLOGY.—*Tuesdays, Thursdays and Saturdays, 10-11 A. M.*

TEXT BOOKS: *Creyghton, Introductory Logic; Stead, Manual of Psychology.* Reference will also be made to *McDougal, Psychological Psychology; James, Principles of Psychology; Keynes, Formal Logic.*

2. HISTORY OF GREEK PHILOSOPHY.—[1913-14.] *Mondays and Wednesdays, 3-4 P. M.*

Pre-requisite.—Philosophy I.

TEXT BOOKS: *Hegere, Student's History of Philosophy; Plato, Republic, (Davies and Vaughan), Phaedo, Apology, Theaetetus; Taylor, Aristotle on his Professors.*

3. ETHICS.—[1913-14.] *Tuesdays and Thursdays, 9-10 A. M.*  
Pre-requisite.—Philosophy I.

TEXT BOOKS: *Plato, Republic I-IV; Butler, Sermons; Hume, Enquiry; Kant, Fundamental Principles of the Metaphysics of Morals; Mill, Utilitarianism; Sidgwick, History of Ethics. On Ethical Theory, Sidgwick, Methods of Ethics; Haskins, The Theory of Good and Evil, and Moore's Principles of Ethics will chiefly be referred to. On the Psychology of Ethics, McDougal, Social Psychology will be consulted, and reference will also be made to Weyersmarch, Origin and Development of Moral Ideas.*

4. THE PHILOSOPHY OF KANT. (1914-15). *Two hours weekly.*  
Pre-requisite.—Philosophy I.

TEXT BOOKS: *Kant, Prolegomena, Kritik of Pure Reason. The ETHIC of Practical Reason and the ETHIC of Judgment will also be studied.*

COMMENTARIES: *Watson, The Philosophy of Kant Explained; Prichard, Kant's Theory of Knowledge; Caird, The Critical Philosophy of Kant.*

5. ADVANCED LOGIC AND PSYCHOLOGY. [1913-14]. *Mondays and Wednesdays, 2-3 P. M.*  
Pre-requisite.—Philosophy I.

TEXT BOOKS: *In Logic, Joseph, An Introduction to Logic; Bosanquet, Essentials of Logic. In Psychology, James, Principles of Psychology; Stout, Analytic Psychology; Ward, Art. Psychology in Encyclopedia Britannica.*

6. METAPHYSICS (1914-15). *Two hours weekly.*  
Pre-requisite.—Philosophy I.

TEXT BOOK: *Taylor, Elements of Metaphysics.*

7. HISTORY OF PHILOSOPHY FROM DESCARTES (1914-15). *Two hours weekly.*

Pre-requisite.—Philosophy I.

#### XI—MATHEMATICS

Professor.....MURRAY MACNEIL, M. A.

1. *Mondays, Wednesdays and Fridays, 12 M.—1 P. M.*

Pre-requisite.—Matriculation Mathematics. A general course in Elementary Mathematics. *Geometry—Euclid Book VI; Proportional Geometry, Mensuration of the Sphere, Prism, Pyramid, Cylinder and Cone. Trigonometry—Solution of plane triangles; angular analysis. Algebra—Indices, Logarithms, Interest and Annuities, Permutations and Combinations, Binomial Theorem, Graphs of Simple Expressions, Partial Fractions, Complex Numbers, Theory of Equations.*

TEXT BOOKS: *Wilson's Solid Geometry and Conic Sections; Murray's Plane and Spherical Trigonometry with Tables; Hawker's Higher Algebra, (Glas & Co.).*

FOR ADDITIONAL READING: *Geometrical Conic Sections, Spherical Trigonometry, Determinants, Infinitesimal Series.*

3. *Tuesdays and Thursdays, 12-1.*

Pre-requisite.—Mathematics I.  
Analytic Geometry.

TEXT BOOKS: *Smith and Gale, New Analytic Geometry, (Glas & Co.)*

4. *Mondays, Wednesdays and Fridays, 11-12 A. M.*

Infinitesimal Calculus. This course may be taken by those who are taking or have taken Mathematics 3.

TEXT BOOKS: *Graville, Differential and Integral Calculus, Revised Edition, (Glas & Co.).*

#### ADVANCED CLASSES.

The courses in these classes are intended for those who wish to take mathematical work in the third or the fourth year in the ordinary course in Arts or Science. They are also intended to serve as courses introductory to the study of higher mathematics, for those who may afterwards attend the graduate schools in the larger universities. Candidates for Honours in Mathematics are required to take four of these courses in class. Each class meets two hours weekly throughout the year. Mathematics 3 and 4 are pre-requisite.

5. ADVANCED CALCULUS. [1913-14.] *Tuesdays and Thursdays, 11 A. M.—12 M.* Topics in the treatises of Todhunter, Williamson, Harsack, Lamb, and Gibson.

6. PLANE AND SOLID ANALYTICAL GEOMETRY.—Based on the treatises of Salmon and C. Smith.
7. DIFFERENTIAL EQUATIONS.—Murray's *Differential Equations*, with supplementary lectures.
8. ALGEBRA.—Topics in Determinants, Theory of Equations, Quantics, Invariants, with lectures on Series and Functions of a real variable.
9. PROJECTIVE GEOMETRY.

## XII—ASTRONOMY.

Lecturer .....

1. DESCRIPTIVE ASTRONOMY.—Two hours a week through the year. The course will be given only if a sufficient number apply for it.

Pre-requisite.—Matriculation Mathematics.

This is a general course in which the leading facts and principles of Descriptive Astronomy are presented.

BOOK RECOMMENDED: Young, *General Astronomy*.

## XIII—PHYSICS

(George Masoro Professorship)

Professor ..... HOWARD L. PRINSON, Ph. D.  
 Demonstrator ..... J. H. L. JOHNSON, B. Sc.

## LECTURE COURSES.

MECHANICS.—Tuesdays and Thursdays, 11—12 A. M.

Pre-requisite.—Arts Matriculation Mathematics.

This course gives an elementary treatment of Kinematics and Dynamics and of the general properties of solids, liquids and gases. Special attention is paid to the solution of problems, all students being required to hand in papers for correction and criticism.

The course is primarily intended for Engineering students and for those students in Arts and Science who desire more Physics than is given in Physics I or 1B. It may be taken by all students intending to take Honours in Mathematics or Physics.

BOOKS RECOMMENDED: Glasstone, *Mechanics and Hydrostatics*; Duff, *Mechanics*.

1. GENERAL PHYSICS.—Mondays, Wednesdays and Fridays, 9—10 A. M.

Pre-requisite.—Matriculation Mathematics.

The object of this course is to give the minimum acquaintance with Physical Science requisite for a liberal education to those whose studies will be mainly literary. The lectures are illustrated by experiments, and special attention is paid to the solution of problems, all students being required to hand in papers for correction and criticism. The whole subject of Experimental Physics is taken up, the subjects treated being: Kinematics, Dynamics, Properties of Matter, Sound, Heat, Electricity and Magnetism, Light and other forms of Radiation.

Those who aim at Distinction or intend to take Physics 2 or 3 must take Course 1 A or 1 B.

BOOK RECOMMENDED: Kimball, *College Physics*.

1B. The work of this class is that of Physics I, with two additional hours a week devoted to laboratory work. The laboratory class is divided into two sections, one of which meets on Thursday from 11—1 and the other on Friday from 2—4.

The experiments selected for this course are designed to acquaint the students with the methods and instruments used in physical measurement. They will also assist him in grasping that part of the subject which is taught in the lectures.

This course should be taken by those intending to enter Medicine.

Those who aim at Distinction will be examined on private reading to be assigned.

- 1A. GENERAL PHYSICS.—Mondays, Wednesdays and Fridays, 12 M.—1 P. M.

Pre-requisites.—Mechanics and Mathematics I.

This is a general course covering the whole subject of Experimental Physics, but particular attention is paid to Heat and Electricity. The course is primarily intended for Engineering students and for those students of Arts and Science who desire a somewhat more advanced course than Physics I. It must be taken by all students intending to take Honours in Mathematics or Physics. The course is fully illustrated by experiments, and special attention is paid to the solution of problems, all students being required to hand in papers for correction and criticism.

Those who aim at Distinction will be examined on private reading to be assigned, and will be expected to consult the books on the general subject of Physics recommended by the Lecturer.

BOOKS RECOMMENDED: Wright, *Heat*; S. P. Thompson, *Electricity and Magnetism*; Nichols and Franklin, *Light and Sound*; Watson, *A Text-Book of Physics*....

2. ELEMENTARY MATHEMATICAL—HEAT AND ELECTRICITY.—[1913-14.] Given in alternate years. Mondays and Fridays, 10—11 A. M.

Pre-requisites: Mathematics 4, Physics 1A, or 1B.

BOOKS RECOMMENDED: Thomson, *Elements of the Mathematical Theory of Electricity and Magnetism*; Preston, *The Theory of Heat*; Maxwell, *Theory of Heat*; Franklin and Williamson, *Alternating Currents*.

3. ELEMENTARY MATHEMATICAL—LIGHT.—[1914-15]—Given in alternate years. Mondays and Fridays, 10—11 A. M.

Pre-requisites.—Mathematics 4, Physics 1A or 1B.

BOOKS RECOMMENDED: Preston, *The Theory of Light*; Schuster, *Theory of Optics*; Mason and Millikan's *Drude, The Theory of Optics*; Wood, *Physical Optics*.

4. ADVANCED MATHEMATICAL.—Given in alternate years.

In this course an introduction to Mathematical Physics and Applied Mathematics will be given. It is intended for candidates for Honours in Mathematics, and in Physics, but other students with the necessary qualifications may enter the class.

In 1913-1914 this course will include the following topics: Vector analysis; Maxwell's Theory applied to electric waves and flow of electric energy in conductors and dielectrics; Fourier's Theorem applied to heat conduction, the age of the earth, and ocean cables.

BOOKS OF REFERENCE: Coffin, *Vector Analysis*; Maxwell, *Electricity*

**5. EXPERIMENTAL METHODS.**

This course deals with experimental methods, and the relation of theory to research, as exemplified by papers of classic interest, or by recent developments of Physics. The course may be conducted by lectures, by private reading, or by laboratory work, or by a combination of them.

This course is intended primarily for candidates for Honours in Physics, and in Chemistry and Chemical Physics; but it may be elected by any student who shows that he is able to undertake it.

**LABORATORY COURSES.**

All students in laboratory courses are required to keep a detailed record of the investigations made, describing the methods and apparatus used, giving the results obtained and discussing the degree of accuracy and the causes of error. The excellence of this record will count largely toward the student's final mark in the course. No student is admitted to the final examination in the course whose actual work in the laboratory is unsatisfactory either from the standpoint of quantity or quality.

**6. ELEMENTARY PRACTICAL.—Six hours per week. Mondays and Wednesdays, 2—5 P. M.**

In this course the student makes a series of elementary experimental investigations to aid him in grasping the fundamental quantitative physical laws upon which the science is based, and to familiarise him with the methods and instruments used in physical measurements.

**BOOKS OF REFERENCE:** *AMES and BISS, Manual of Experiments in Physics*; *STEWART and GEE, Elementary Practical Physics*; *TORY and FITCHER, Laboratory Physics*.

**7. ELEMENTARY PRACTICAL.—Six hours per week. Mondays and Wednesdays, 2—5 P. M.**

**Pre-requisite.**—Physics 1 B, or its equivalent.

This course is similar to Physics 6, but is somewhat more difficult, and in it more attention is paid to experimental methods. It is intended for Honour students in Chemistry and Chemical Physics, and for those who desire a larger acquaintance with the experimental side of Physics than is obtained in Physics 1 B.

**BOOKS OF REFERENCE:** *TORY and FITCHER, Laboratory Physics*; *STEWART and GEE, Elementary Practical Physics*.

**8. ADVANCED PRACTICAL.—Six hours per week. Mondays and Wednesdays, 2—5 P. M.**

The work of this class consists of the investigation of physical laws of a more complex kind than in Physics 6, and a greater degree of precision will be expected in the determinations made. Students who show sufficient ability may be allowed to conduct new investigations, provided they do not use for that purpose a large portion of the time prescribed.

**9. RESEARCH COURSE.—At least ten hours per week.**

The work will consist of new investigations conducted by students who show sufficiently ability, and are otherwise qualified to undertake it.

Members of the class will be required to acquaint themselves with the literature of the subject in which their investigations lie, to prepare critical reports on those portions of it with which their work is more immediately concerned, and to prepare full reports on the methods and results of their own observations.

**XIV. CHEMISTRY.**

(McLeod Professorship)

*Professor* ..... E. MACRAY, PH. D.  
*Instructor* ..... C. B. NICKERSON, A. M.  
*Assistant* .....

The syllabus of the classes prescribed for candidates for a degree in Medicine or Dentistry, namely, Chemistry 1B and 3, will be found under "Courses of Instruction" in the Faculties of Medicine and Dentistry. Of these classes Chemistry 3 may also be offered for a degree in Arts or Science. The class for students of Pharmacy, Chemistry 1C (p. 67), cannot be offered for an Arts or Science degree.

**1. GENERAL CHEMISTRY.—Mondays, Wednesdays and Fridays, 9—12 A. M. or 11—12 A. M.**

**Pre-requisite.**—Matriculation Algebra.

Phenomena leading to the fundamental laws of combination are first presented, as far as possible in historical order, and thereafter the atomic theory, Avogadro's hypothesis, and the formulation of equations. The chief non-metallic elements are then studied somewhat fully, and a few metals briefly, special attention being called to phenomena or compounds of interest in daily life. The elements of Physical Chemistry are also introduced.

The lectures are illustrated as fully as possible by experiments. Written class exercises are held weekly.

**BOOKS RECOMMENDED:** *SMITH, General Chemistry for Colleges*. For occasional reading: *ALEXANDER CIVIL EXPERIMENTS*; *LAESER-COLE, Chemistry in Daily Life*.

**1A. GENERAL CHEMISTRY.—Mondays, Wednesdays and Fridays, 9—12 or 11—12 A. M. Laboratory: Mondays and Wednesdays, 3—5 P. M., or Tuesdays and Thursdays, 10—12 A. M.**

**Pre-requisite.**—Matriculation Algebra and English.

The work of this class is that of Chemistry 1, with four to six additional hours a week devoted to laboratory work.

**2. CHEMISTRY OF METALS AND COMPOUNDS OF CARBON.—Tuesdays and Thursdays, 9—12 A. M. Laboratory: Tuesdays and Thursdays, 2—4.30 P. M.**

**Pre-requisite.**—Chemistry 1A.

**Autumn term:** the metals and their compounds; applications of the theory of electrolytic dissociation to analysis.

**Spring term:** compounds of carbon, their purification and analysis; the paraffins and their chief derivatives; ethylene; acetylene; benzene and its chief derivatives.

At least five hours a week must be devoted to laboratory work. This will include qualitative analysis and the preparation of pure laboratory reagents and typical inorganic and organic substances.

**BOOKS RECOMMENDED:** *SMITH, General Chemistry for Colleges*; *TALBOT and BLANCHARD, Electrolytic Dissociation Theory*; *A. A. NORTON, Qualitative Analysis*; *ROZMAN, Compounds of Carbon*, 6th edition.

**4. ENGINEERING CHEMISTRY.**—Autumn term: *Toxicology and Therapeutics 5—10 A. M. Laboratory, Toxicology and Therapeutics, throughout the Session 2—4:30 P. M.*

*Pre-requisite.*—Chemistry 1A.

The lectures in this class are the same as those of the Autumn term in Chemistry 2.

Five hours a week are devoted to laboratory work, which includes a thorough course in qualitative analysis.

**BOOKS RECOMMENDED:** A. A. Noyes, *Qualitative Analysis*. For reference: Talbot and Blanchard, *Electrolytic Dissolution Theory*.

#### ADVANCED CLASSES.

The following classes are especially intended for candidates for Honours in Chemistry and Chemical Physics; but any student who has passed in Chemistry 2 with Distinction may be admitted. The classes are given in alternate years.

**5. HISTORY OF CHEMISTRY.**—1913-14. Once a week.

The development of chemical theory from the time of Boyle.

**BOOKS RECOMMENDED:** Arrhenius, *History of Chemistry* (Loeggmann); Roscoe, *Dalton and the Rise of Modern Chemistry*; Sherrington, *Justus von Liebig*; Thorpe, *Essays on Historical Chemistry*; Scherer, *Rise and Progress of Organic Chemistry*; and selected memoirs from the *Annals of Chemistry* and Ostwald's *Klassiker*. For reference: Ernst von Meyer, *History of Chemistry*.

**6. PHYSICAL CHEMISTRY.**—1914-15. Once a week.

Solutions; thermo-chemistry; electro-chemistry; and chemical dynamics.

**BOOKS RECOMMENDED:** Walker, *Introduction to Physical Chemistry*; Le Blanc, *Electro-Chemistry*; selected portions of Ostwald's *Principles of Inorganic Chemistry*. For reference: Text Books of Physical Chemistry, edited by RAMSEY.

#### LABORATORY CLASSES.

**7. QUANTITATIVE ANALYSIS AND INORGANIC PREPARATIONS.**—At least ten hours a week.

*Pre-requisite.*—Chemistry 2 or 4.

The work of the class consists of quantitative analysis and the preparation of inorganic substances.

One hour a week is taken for the discussion of analytical methods, and at least ten hours a week must be devoted to laboratory work. The preparation and analyses prescribed are designed to illustrate typical methods. The quantitative exercises carried out are the following: preparation of standard solutions of acids and alkalis, estimation of chlorine, sulphur, phosphorus, carbon in carbonates, silicon, silver, copper, iron, manganese zinc, calcium and magnesium, volumetric as well as gravimetric methods being employed wherever applicable.

Candidates for Distinction are required to undertake additional work selected from the following: estimation of iodine, nitrogen in nitrates, potassium, chromium, aluminium and lead, analysis of iron and steel, analysis of ores, water analysis.

**BOOKS RECOMMENDED:** Harpell, *Inorganic Preparations* (Johns Hopkins Press); Longfild, *Inorganic Preparations*; Talbot, *Quantitative Analysis*; Marce, *Exercises in Quantitative Chemistry*; Blair, *Chemical Analysis of Iron*; Mason, *Estimation of Water*.

**8. ORGANIC PREPARATIONS AND ANALYSIS.**—At least ten hours a week.

*Pre-requisite.*—Chemistry 2 or 3.

The work of the class consists of the preparation and analysis of organic compounds. At least ten hours a week must be devoted to laboratory work. A sufficient number of organic compounds are prepared to illustrate the most important reactions and methods of working. Quantitative determinations are carried out of carbon, hydrogen, oxygen and nitrogen; and some molecular weights are determined.

Students are permitted to substitute for the analytical work an equivalent amount of work in other branches of analysis, or in physiological chemistry.

Candidates for Distinction are required to do additional work of the kind outlined above.

**BOOKS RECOMMENDED:** Rosen, *Compounds of Carbon*, 4th edition. Cohen, *Practical Organic Chemistry for Advanced Students*; Gilman, *Practical Methods of Organic Chemistry*, translated by Schuber.

**9. FOOD ANALYSIS.**—At least ten hours a week.

*Pre-requisite.*—Chemistry 7.

One hour a week will be devoted to a discussion of the methods employed in determining the character, purity, and nutritive value of food products, also the detection of the common food adulterants. Typical analyses will be made in the laboratory.

**10. RESEARCH.**—The work of this class will consist of original investigation conducted by students who have shown themselves qualified to undertake it.

#### PHARMACEUTICAL CHEMISTRY.

The following class is prescribed for candidates for the degree of Bachelor of Pharmacy. The laboratory work is arranged in two divisions, the work of the first division being preliminary to that of the second. The first division of the laboratory work together with the full lecture course constitutes a Qualifying Course for students of Pharmacy seeking admission to the examination in Chemistry of the Nova Scotia Pharmaceutical Society.

If a student taking the Qualifying Course can satisfy the department that he has a satisfactory knowledge of qualitative analysis, he may be permitted to do the second division of the laboratory work simultaneously. Otherwise, the work of the first division must be satisfactorily completed before undertaking that of the second.

**1C. Mondays, Wednesdays and Fridays, 12—1 P. M. Laboratory: First Division, Mondays and Fridays, 11—12 A. M., Wednesdays, 10—12 A. M.; Second Division, At least three additional hours per week.** (Conducted by Mr. Nickerson).

**LECTURE WORK.**—Autumn Term: Systematic study of the elements and their principal compounds, and the fundamental laws and theories of Chemistry.

Spring Term: One lecture a week will be supplementary to the work in the laboratory and will consist of discussions and recitations upon the theories involved. Two hours a week will be spent in the study of Organic Chemistry, special attention being given to those compounds of importance to Pharmacy.

**LABORATORY WORK.**—*First Division:* Exercises in General Chemistry, followed by a course in qualitative analysis.

*Second Division:* (1) Identification and determination of purity of chemicals of the R. P. such as acids (inorganic and organic), potassium bitartrate, hydroxide, bromide and iodide; sodium bicarbonate and salicylate; ammonium chloride, liquor ammonia fortior; magnesium sulphate and carbonate; albumen; bismuth subnitrate, hydrarg. subchloride; glycerine, alcohol, ether, morphine, quinine, honey, beeswax, etc.

(2) Strength of R. P. preparations, such as: Liquid extracts of belladonna, cinchona, ipecac, nux vomica, and opium; liquors—ferri perchlorid, arsenicalis, hydrarg. perchlorid, and potass. permang.; syrups—simplex, ferri iodid; spirits—ether nil, etc.

(3) Use of polariscope.

(4) Testing of food products and water.

(5) Urine analysis.

If desired, students may specialize in any one or more of these subdivisions.

#### CHEMICAL LABORATORY.

The general laboratory is open at the hours specified above under Chemistry 1A, 2, 3 and 4.

The quantitative laboratory is open daily at 9 a. m. It closes on Saturdays at 1 p. m., and on other days at 5 p. m.

#### XV.—GEOLOGY AND MINERALOGY

Lectures.....D. S. MCINTOSH, M. Sc.

**1. GENERAL GEOLOGY.**—Lectures Mondays, Wednesdays and Fridays, 10—11 A. M. Excursions and Laboratory Fridays afternoons.  
*Pre-requisite:*—Chemistry 1 or 1A (which, however, may be taken in the same year).

The lectures will consist of a general survey of the whole field of Geology. The chief rock-forming minerals, and the common igneous rocks will be studied early in the course. A large part of the time will be devoted to Dynamical and Structural Geology. Historical Geology will deal mainly with the North American Continent, tracing its development, and that of life upon it, from early times to the present day.

During the early part of the Autumn term excursions will be made to points of interest around Halifax on Friday afternoons. This will be succeeded by laboratory work of an hour or more on these afternoons during the rest of the session.

This course is elective for candidates in Arts and Science.

*TEXT BOOK:* Scott, An Introduction to Geology.

*REFERENCE BOOKS:* Chamberlin and Salisbury, *Geology: A Geikie's Geology*; Young and Brock, *Geology and Economic Minerals of Canada*.

**1A. GENERAL GEOLOGY.**—Lectures as in *Geology 1*.

*Pre-requisite:*—As in *Geology 1*.

The work of this class embraces the lectures of *Geology 1*, with additional field and laboratory work. The field and laboratory work occupies Saturday forenoons throughout the Session, beginning at nine o'clock. Excursions are held during the Autumn except on stormy days, and may occupy the whole day.

Required for candidates in Engineering, and elective for candidates in Arts and Science.

The collection of maps, minerals and rocks for use in *Geology 1A* is unusually complete, and the work is chiefly individual. The vicinity of Halifax offers a varied field for the excursions, which can be completed at small expense. Much of the work in the field is individual, and reports are required upon each excursion.

*TEXT AND REFERENCE BOOKS:* See *Geology 1*.

**2. PHYSIOGRAPHY AND CANADIAN GEOLOGY.**—Lectures, Tuesdays and Thursdays, 10—11 A. M.; Laboratory, on hour or more per week.

*Pre-requisite:*—*Geology 1* or 1A.

This course deals with land forms; the ocean; climate; plant, animal, and mineral distribution; man and the effect of natural environment. The latter part of the course will be devoted to the physical features and *Geology of Canada*.

*REFERENCE BOOKS:* Salisbury, *Physiography*; Davis, *Physical Geography*; Young and Brock, *Geology and Economic Minerals of Canada*.

**3. MINERALOGY AND PETROGRAPHY.**—Lectures two hours a week throughout the year. Laboratory, one afternoon a week, chiefly microscopical.

*Pre-requisite:*—*Chemistry 1A* and *Geology 1* or 1A (the latter, however, may be taken in the same year).

This course will embrace crystallography, the rock-forming minerals, and the classification and description of rocks.

*REFERENCE BOOKS:* Williams, *Crytology*; Pirsson, *Rocks and Rock Minerals*; Barker, *Petrology for Students*.

**4. MINERALOGY AND ECONOMIC GEOLOGY.**—Lectures, two hours a week throughout the year. Laboratory, two afternoons a week.

*Pre-requisite:*—As in *Geology 1*.

The mineralogy of this course will supplement that of *Geology 3* by a description and determination of minerals by their physical properties, and systematic blow-pipe analysis. The nature, mode of occurrence and distribution of the economic minerals will also be dealt with.

*REFERENCE BOOKS:* Dana, *A Text-book of Mineralogy*; Brush and Penfield, *Determinative Mineralogy, and Blow-pipe Analysis*; Ries, *Economic Geology of the United States*; Kemp, *Ore Deposits of the United States and Canada*.

#### ADVANCED COURSES.

**5. PALAEOZONTOLOGY.**—Class and Laboratory work one afternoon a week throughout the year.

*Pre-requisite:*—*Geology 1* or 1A, *Biology 1*.

Typical fossils of the various formations will be studied and special work done on one of the periods.

*REFERENCE BOOK:* Zittel, *Text-book of Palaeontology*.

**6. PRACTICAL GEOLOGY.**—One lecture a week throughout the year, with field work during the open season.

*Pre-requisite:*—*Geology 1* or 1A.

This course will deal with problems in structural geology with geological and magnetic surveys.

**7. GEOLOGICAL CHEMISTRY.**—Lectures once a week; laboratory six hours a week throughout the session.

*Pre-requisite.*—Geology 3 and 4, Chemistry 1.

The lectures will embrace the application of Chemistry to geological problems. The laboratory course will deal with mineral and rock analysis.

#### XVI.—BIOLOGY

*Professor* ..... CLARENCE I. MOORE, M. A.

**1. GENERAL BIOLOGY.**—Lectures one hour per week; laboratory four hours per week.

*Pre-requisite.*—Matriculation English.

The aim of this course is to acquaint the student with some of the more important biological facts and theories and results of biological work; also to serve as an introduction to biological methods. It includes a general survey of the plant and animal kingdoms and the discussion of topics of fundamental biological importance, e.g. protoplasm, cell and cell structure, reproduction, inheritance, variation, adaptations, evolution, etc.

**2. GENERAL ZOOLOGY.**—Lectures two hours per week; laboratory four hours per week.

*Pre-requisite.*—Biology 1.

*TEXT BOOK:* Hertwig, *Manual of Zoology*.

**3. GENERAL BOTANY.**—Lectures two hours per week; laboratory four hours per week.

*Pre-requisite.*—Biology 1.

**10. PHARMACEUTICAL BOTANY.**—Lectures two hours per week; laboratory two hours per week.

This class is prescribed for candidates for the degree of Bachelor of Pharmacy. It cannot be offered for a degree in Arts or Science.

**4. COMPARATIVE ANATOMY OF THE VERTEBRATES.**—Lectures one hour per week; laboratory four hours per week.

*Pre-requisite.*—Biology 2.

*TEXT BOOK:* Wiedersheim's *Comparative Anatomy of Vertebrates*.

#### XVII.—ANATOMY

The classes in Anatomy conducted by the Faculty of Medicine are recognized as qualifying for a degree in Arts or Science. (See "Courses of Instruction," Faculty of Medicine).

Undergraduates who have taken the above classes as part of their course are required to present certificates of having passed the examinations conducted by the Faculty of Medicine.

#### XVIII.—PHYSIOLOGY

The classes in Physiology conducted by the Faculty of Medicine are recognized as qualifying for a degree. (See "Courses of Instruction," Faculty of Medicine).

Undergraduates who have taken these classes as part of their course are required to present a certificate of having passed the examination of the Faculty of Medicine.

#### XIX.—THEORY AND HISTORY OF MUSIC

The classes in the Theory of Music and History of Music, conducted in the Halifax Conservatory of Music, are recognized as qualifying for the degree of Bachelor of Music. In the Theory the course extends over three years; in the History, over two. Information as to details of subjects studied in the classes, fees, text-books, etc., may be obtained on application to the Director of the Conservatory, Mr. Harry Dean.

#### XX.—DRAWING

*Professor* ..... C. D. HOWE, S. B.

**1. MECHANICAL, FREEHAND AND MACHINE DRAWING.**—Lectures one hour, and drawing nine hours per week throughout the year.

The work includes the selection, care, and use of drawing instruments; free hand lettering and object drawing; geometrical exercises; instrumental rendering; detail and assembly drawings of simple machines, both from dimensional plates and from sketches and dimensions taken by the student; isometric and wash drawings; tracing and blue-printing. All engineering students are required to take this course in the first year.

*TEXT BOOK:* Adams, *Mechanical Drawing*.

**2. DESCRIPTIVE GEOMETRY.**—Lectures two hours per week, drawing five hours per week during the second term.

*Pre-requisite.*—Drawing 1 (or taken simultaneously).

The work includes the projection of lines, plane figures, and solids, problems on the relations of straight lines and planes in space, intersections and developments, surfaces of revolution. The course aims not only to develop the power to visualize magnitudes involving three dimensions, but also to point out practical applications to engineering work. Required of all Engineering students.

*TEXT BOOK:* Adams, *Descriptive Geometry*.

#### XXI.—SURVEYING

*Professor* ..... C. D. HOWE, S. B.

Lectures three hours per week, field work six hours per week first term; drawing six hours per week second term.

*Pre-requisite.*—Drawing 1 and Mathematics 1.

Instruction is given in the use and adjustment of the various surveying instruments, also in plane land surveying by chain, compass, transit, and level, city surveying, hydrographic surveying, triangulation, topographical and mine surveying, and stadia surveying. The work includes theory, practice in field work and plotting, and conventional representation of topographical features.

Required of all students in Engineering.

*TEXT BOOK:* Brand and Hooper, *Principles and Practice of Surveying*.

**XXII.—KINEMATICS AND DYNAMICS OF MACHINES**

Professor.....C. D. HOWE, S. B.

Lectures three hours per week throughout the year.

Pre-requisites.—Drawing 1, Mathematics 1; Mathematics 4 taken simultaneously.

Kinematics: The work includes constrained motion, kinematic pairing, velocity and acceleration in mechanisms, analysis of simple mechanisms, including the quadric crank chain, slider crank chain, and various wheel trains, and the design of involute and cycloidal gear-teeth.

Dynamics: A brief discussion of work and power; the power and turning effort of prime movers; the inertia and kinetic energy of revolving and reciprocating parts of machines.

Required of all students in Engineering.

TEXT BOOK: Schwamb and Merrill, *Mechanics*.

**XXIII.—MATERIALS OF CONSTRUCTION**

Professor.....C. D. Howe, S. B.

The work includes the manufacture and properties of cast iron, wrought iron, crucible, bessemer, and open hearth steel; principal alloys; manufacture and properties of Portland and natural cements; limes; concrete; stone and brick masonry; timber; preservation of timber; standard specifications.

Required of students preparing to enter the third year of McGill University.

**XXIV.—GRAPHICAL STATICS**

Professor.....C. D. HOWE, S. B.

Pre-requisites.—Drawing 1 and 2, and Mechanics.

The work includes the composition of forces, use of funicular and force polygons, determination of reactions, centres of gravity, bending moments and moments of resistance, stresses in cranes, braced towers, roof trusses, and bridge trusses.

Required of students preparing to enter the third year of McGill University.

## Faculty of Law

The curriculum leading to the degree of Bachelor of Laws extends over three years.

A Bachelor of Arts of this University who has taken as part of his course for that degree the subjects of Constitutional History, Contracts, Torts, and Crimes, may complete a subsequent Law course in the University in two years.

A Bachelor of Arts of the University of Kings, Acadia, St. Francis Xavier, Mount Allison, or New Brunswick, who has taken as part of his course for that degree the subjects of Constitutional History, Contracts, Torts, and either Crimes or International Law (according to the arrangement in the different universities), may similarly complete a subsequent Law course in this University in two years.

The Law School occupies the first two floors of the north wing of the main University building, the office of the Dean being on the first floor, and the Law Library, containing 8,000 volumes, on the second floor.

The following extracts are taken from the amended regulations of the Nova Scotia Barristers' Society respecting Law Students:

An applicant for admission to the Bar must pass three examinations, Preliminary, Intermediate and Final.

"The degree of Bachelor of Arts from any college or university in Great Britain or Ireland or in any province of Canada, empowered at the time of the passing of the regulations to grant such degree, or from any college or university approved by the Council, may be accepted in lieu of said Preliminary examination, and a satisfactory certificate of holding such degree or license, as the case may be, shall, unless otherwise ordered by the Council, be accepted by the Secretary in lieu of said \*Preliminary examination."

"No candidate who does not hold the degree of Bachelor of Arts shall be admitted to an Intermediate

\*An amendment adopted in 1922 provides that a student who holds a Grade XI certificate of Nova Scotia and is duly matriculated in any recognized college of the Province and has passed the subjects including Latin and French, prescribed for the first year in Arts of such college, shall be exempt from the Preliminary examination.



examination unless he has served as a duly articulated clerk for at least two years. Any candidate holding that degree shall be admitted to the Intermediate examination after he has served as a duly articulated clerk for one year.\*

"No candidate shall be admitted to a Final examination, until the expiration of at least eighteen months from his having passed the Intermediate examination, or such examination or examinations as are accepted in lieu thereof."

"The degree of Bachelor of Laws from Dalhousie University, Halifax, may be accepted in lieu of the Final examination on the subjects, Commercial Law, Equity Jurisprudence, Evidence, Statutory Law, and Domestic Relations, and a satisfactory certificate of holding such degree shall, unless otherwise ordered by the Council, be accepted by the Secretary in lieu of said Final examination in said subjects."

If a student have taken and passed the Law School examination in Practice and Procedure, previous to October, 1908, he is exempted from the Bar Society's examination in "Procedure and Practice."

"A student during his term of service shall not engage in any employment, other than attendance at an institution of education in law, which will have the effect of interfering with such services."

### General University Regulations

University regulations applicable to the students of all Faculties and relating to registration, residence, church attendance, discipline, conduct of examinations, etc., will be found in the University Calendar, pp. 15-17.

### Academic Year

The Academic Year consists of one session of six months duration. The session of 1913-14 will begin on Tuesday, October 14th, 1913, and end on Thursday, April 30th, 1914.

### Admission

Students are admitted to classes either as Special students without formal examination, or as Matriculants, or Undergraduates.\*

\*An Undergraduate is defined as a candidate for a degree who has passed to all a Matriculant one who has passed in at least three subjects of the Preliminary or Matriculation examinations. All other students are classed as Special students. (See University Calendar, page 8.)

Subject to the University regulations for the admission of students (see University Calendar, page 9), a Special student may be admitted to classes in this Faculty, but his attendance is not recognized as qualifying for a degree.

Matriculants are admitted to the course for the Law degree as if they had undergraduate standing; but they are required to complete their Matriculation before being admitted to the second year of the course.

All undergraduates are admitted to the full work of the first year of the course for the Law degree. For admission to the classes of the second or third year an undergraduate must have passed in at least all but one of the subjects of the preceding year.

Undergraduates of other approved Law Schools may, on producing satisfactory certificates, be admitted to advanced standing in this Law School. But if their previous courses of study have not corresponded to those preliminary to the year of the course on which they enter in this University they may be required to take extra classes.

### Matriculation

Candidates for admission to the course for the Law degree must present, subject to the conditions given above,

(a) a Certificate of having passed the Matriculation for that degree (see University Calendar, p. 9); or

(b) Diplomas, Licenses, or Certificates accepted by the Committee on Admission as equivalent to (a) (see University Calendar, p. 11); or

(c) a Certificate of having passed the Preliminary Law Examinations in any of the Provinces of Canada, or in Newfoundland, or in any of the British West India Islands.

Students presenting themselves for the first time to register in the Faculty of Law must submit to the Committee on Admission their Diplomas or Certificates to establish their qualifications, and these must *prove acceptable before the student can be registered. Students are consequently advised to mail such Certificates in advance to the Dean, and ask for a statement of their value.*

**Curriculum\*****First Year** **HOURS PER WEEK.**

|   |   |
|---|---|
| 1. Constitutional History .....                     | 2 |
| 2. Contracts .....                                  | 2 |
| 3. Torts .....                                      | 2 |
| 4. Crimes .....                                     | 1 |
| 5. Evidence 1 .....                                 | 1 |
| 6. Real Property, or Wills and Administration ..... | 1 |

**Second Year**

|   |   |
|---|---|
| 1. Constitutional Law .....                         | 2 |
| 2. Shipping .....                                   | 1 |
| 3. Equity Jurisprudence 1, or 2 .....               | 1 |
| 4. Bills and Notes, or Sales .....                  | 1 |
| 5. Evidence 2 .....                                 | 1 |
| 6. Insurance .....                                  | 1 |
| 7. Wills and Administration, or Real Property ..... | 1 |

**Third Year**

|  |   |
|--|---|
| 1. International Law .....                           | 1 |
| 2. Conflict of Laws .....                            | 1 |
| 3. Equity Jurisprudence 2, or 1 .....                | 1 |
| 4. Sales, or Bills and Notes .....                   | 1 |
| 5. Partnership, and Companies and Corporations ..... | 1 |
| 6. Statutes and Procedure .....                      | 2 |
| 7. Office Practice .....                             | 1 |

Detailed information regarding the classes included in these courses will be found under Course of Instruction.

No student shall be allowed to take a class belonging to a year in advance of his own year without special permission from the Faculty.

No student shall be allowed to take more than nine classes, including classes taken in other faculties of the University, without special permission from the Faculty.

**Moot Courts**

Moot Courts are held weekly.

The case to be argued is stated by the Professor or Lecturer who is to preside. Every candidate for a degree shall be required to take part in at least two arguments at the Moot Court. The senior counsel on either side shall file briefs with the Dean one day before the day on which

\* It is to be distinctly understood that the program and regulations regarding courses of study and examinations contained in this Calendar hold good for the year ending April 30, 1914 only, and that the Faculty, while fully sensible of its obligations towards the students, does not hold itself bound to adhere absolutely for the entire period of a student's course to the conditions now laid down.

the case is argued. A record is kept of the values assigned to the arguments made, and these values may be considered by the Faculty in recommending a candidate for his degree.

The Faculty urgently recommend that students devote their whole time during Sessions to the work of the School, experience having proved that students who undertake office work in addition to the work of their classes receive comparatively little advantage from the lectures.

**Sessional Examinations**

The Sessional examinations will begin next Session on Thursday, April 16th, 1914.

In order to be permitted to write an examination, a student must have attended 90 per cent of the lectures or other meetings of the class in question, unless valid reason for absence is shown.

**Supplementary Examinations**

If a student fail to pass in one or two subjects of his year at the Sessional examination he shall be allowed a Supplementary examination in such subject or subjects at the specified times for such examinations. But if he fail to pass in more than two subjects at any Sessional examination, he must repeat his year.

If a student fail in two subjects of his year at a Sessional examination, he must pass in at least one of them at a subsequent Supplementary examination before he can enter upon the studies of the next higher year.

Supplementary examinations are held only at the beginning and end of the Session, on the dates to be found in the Almanac.

Students who wish to present themselves at a Supplementary examination must give notice addressed to the Dean of the Faculty at least one week before the day set for such examination, and the fee must in all cases accompany the application for examination.

**Fees**

All fees are payable in advance, and until the fees are paid the student will neither receive credit for attendance upon any class, nor be admitted to any examination.

**FOR REGISTRATION.**

|   |         |
|---|---------|
| Registration, payable by all students .....       | \$ 5 00 |
| Registration after October 21st, additional ..... | 1 00    |

## FOR TUITION, EXAMINATIONS AND DIPLOMA.

|  |         |
|--|---------|
| Each class attended, when taken singly.....  | \$10 00 |
| All the classes of any one year of the Curriculum.....   | 60 00   |
| L.L. B. diploma, (payable before the final examination, and returned in case of failure) ..... | 10 00   |
| Each Supplementary examination .....   | 5 00    |
| Additional fee for degree conferred in absentia .....  | 5 00    |

The Registration Fee entitles a student to the use of the University Library as well as the Law Library.

A class taken a second time is charged for as if taken for the first time.

The tuition fees payable by a student will not be higher than those published in the latest copy of the Law Calendar which had been issued before the date of his first registration in the Law School, provided that not more than two years have elapsed since that date. In case more than two years have elapsed the scale of fees charged will be the same as that for the members of the class of the year he is attending.

**Caution Deposit**

Each male student on registration is required to deposit two dollars as caution money to cover damage done to furniture, apparatus, etc. This amount, less deductions (if any), will be returned at the close of the session. There shall be no deduction from the Caution Fund for damages which have been charged to or assumed by individuals.

**Fee for Support of Student Organisations**

At the request of the student body, as expressed by a ballot taken on the question and presented through The Council of the Students, a fee of \$5.00 will be collected on registration from each student who takes more than one class. This fee entitles the student to the privileges of any or all of the following student organizations: Dalhousie Amateur Athletic Club, Dalhousie Skating Club, Dalhousie Young Women's Christian Association, Delta Gamma, Dalhousie Dramatic Club, Sodales, and to a copy of the Dalhousie Gazette. A student taking only one class and desiring to take part in one or more of the above organizations must pay the fee of \$5.00.

**COURSES OF INSTRUCTION****CONSTITUTIONAL AND INTERNATIONAL LAW**

(George Munro Professorship.)

Professor.....DEAN WELDON.

**CONSTITUTIONAL LAW.**

Two lectures per week. Subjects of lectures:

Constitutional Conventions. Royal Prerogative. *Lex Parliamenti*. Colonial Laws Validity Act. Select Cases; Cartwright's Cases.**CONSTITUTIONAL HISTORY.**

Two lectures per week. Subjects of lectures:

Feudalism in England. Origin and growth of the Two Houses of Parliament. Origin and Development of Trial by Jury. Origin and Development of the Courts of Law. The Royal Prerogative. The Liberty of the Person. The Liberty of the Press. History of Party Government. Origin and Development of the Cabinet System. History of the Reform Bills. The Written Code of the Constitution. *Magna Charta*. Petition of Right. Bill of Rights. *Habeas Corpus*. Act of Settlement.TEXT BOOK: Tansell-Langford, *Constitutional History of England*.**CONFLICT OF LAWS.**

One lecture per week. Subjects of lectures:

Leading rules as to (1) personal capacity, (2) rights of property, (3) rights of obligation, (4) rights of succession, (5) family rights, (6) forms of legal acts. The use of courts by strangers. The effect of foreign judgments.

TEXT BOOK: Peot, *Private International Law*.**INTERNATIONAL LAW.**

One lecture per week. Subjects of lectures:

History of North Atlantic Fisheries. Convention of London, 1818. Territorial Waters. Treaty of Washington, A. D. 1871. *Comela*. Commercial Treaties. Naturalisation. Extradition. Blockade. Contraband. Intervention. Capture. Prize Courts.TEXT BOOK: Hall, *International Law*.**SHIPPING**

Lecturer.....DEAN WELDON.

One lecture per week. Subjects of lectures:

Registration of Shipping. Transfer. Mortgage. Charter Party. Bill of Lading. Collision. Damage. Salvage. Freight. Tonnage. General Average.

**CONTRACTS**

Professor.....PROFESSOR RUSSELL.

Two lectures per week. Subjects of lectures:

Definition of terms; agreement, consideration, proposal, acceptance, promise, etc. Persons who may contract. Principal and agent. Disabilities arising from infancy, coverture, lunacy.

intoxication, &c. Express and implied contracts. Verbal and written contracts. Specialties. Statutory requirements as to the validity and authentication of contracts; Statute of Frauds. Causes vitiating agreements; mistake, fraud, duress, &c. Discharge of contracts, rescission, performance, payment, release, merger, &c. Leading cases.

TEXT BOOK: *Asses on Contracts.*

#### EQUITY JURISPRUDENCE

Lecturer.....PROFESSOR RUSSELL.

1. *One lecture per week (1913-14).* Subjects of lectures:  
 Fraud and Misrepresentation. Mistake. Accident. Reformation and Cancellation of Instruments. Mortgages and Liens.
2. *One lecture per week (1914-15).* Subjects of lectures:  
 Specific performance. Injunctions. Quia Timet actions. Bills of Peace. Trusts.

#### SALES OF PERSONAL PROPERTY

Lecturer.....PROFESSOR RUSSELL.

*One lecture per week (1914-15).* Subjects of lectures:  
 Capacity to buy and sell. Executed and executory contracts of sale. Statute of Frauds. Lord Tenenden's Act. Rules as to passing of property. Reservation of *ius dispositi*. Stoppage in transitu. Condition. Warranty, express and implied. Remedies of seller and buyer. Sale of Goods Act.

TEXT BOOK: *Benjamin on Sales.*

#### BILLS AND NOTES

Lecturer.....PROFESSOR RUSSELL.

*One lecture per week (1913-4).* Subject of lectures:  
 Formal Requisites. Consideration. Endorsement and Transfer. Real and Personal Defences. Over-due Paper. Notice of Dishonour Protest.

TEXT BOOK: *Russell on Bills.*

#### TORTS

Lecturer.....JUDGE WALLACE.

*Two lectures per week.* Subjects of lectures:  
 Definitions. Torts considered with reference to Crime and contracts. Trespass. Slander and Libel. Malicious Prosecution. Conspiracy. Assault and Battery. Trespass to Property. Conversion. Nuisance. Negligence.

TEXT BOOK: *Bigelow, or Follis.*

#### CRIMES

Lecturer.....JUDGE WALLACE.

*One lecture per week.* Subject of lectures:  
 Sources of Criminal Law. Offences against Public Order, internal and external. Offences affecting the administration of Law and Justice. Offences against Religion, Morals, and Public Convenience. Offences against the Person, and Reputation. Offences against rights of property and rights arising out of Contract and offences connected with trade. Procedure. Proceedings after conviction.

TEXT BOOK: *The Canadian Criminal Code, 1892.*

#### EVIDENCE

Lecturer.....JUDGE PATTERSON.

1. *One lecture per week:*  
 Relevancy and Rules of Exclusion.  
 TEXT BOOKS: *Folger on Evidence; Odger, Law of Evidence; Cockle, Cases on Evidence.*
2. *One lecture per week:*  
 Proof.

TEXT BOOK: *Odger, Law of Evidence.*

#### PARTNERSHIP AND COMPANIES

Lecturer.....MR. JUSTICE DETHLEF.

*One lecture per week.* Subjects of lectures:  
 Partnership, and Companies and Corporations.

#### INSURANCE

Lecturer.....MR. JUSTICE FITCHER.

*One lecture per week.* Subjects of lectures:  
 The Contract of Insurance. Conditions, statutory and otherwise. Agency. Waiver and Estoppel. Warranties and Representations. Arbitration.

#### REAL PROPERTY

Lecturer.....W. F. O'CONNOR, B. C. L., LL. B.

*One lecture per week, (1913-4):*  
 Estates in lands. Seisin. Limitation of present and future estates in lands. Joint tenancies and tenancies in common. Equitable estates in lands.

TEXT BOOKS: *Williams on Real Property, and Challis on Real Property.*

#### WILLS AND ADMINISTRATION

Lecturer.....W. F. O'CONNOR, B. C. L., LL. B.

*One lecture per week, (1914-5):*  
 Origin of Wills. The Statute of Frauds as affecting Wills. Form and characteristics of instrument. Personal disabilities of testators. What may be devised or bequeathed. Execution, publication, revocation and republication of Wills. The Wills Acts of the various Maritime Provinces. Probate Court practice.

TEXT BOOK: *Ray and Jarman on Wills.*

#### STATUTES AND PROCEDURE

Lecturers.....  
 (STUART JENES, LL. B., K. C.  
 HECTOR MCINNES, LL. B., K. C.  
 V. SHEKMAN ROGERS, LL. B., K. C.)

*Two lectures per week:*

#### STATUTES.

Principles of Interpretation and Construction. Precedents and Authorities. Legislative Methods. Codification. Drafting and Classification of Statutes. Effect and Operation of Statutes. Crown Rules, *certiorari*, Quo Warranto, Mandamus, Prohibition. Bail, *Seize Facias*, Habeas Corpus. Forms, &c.

## PROCEDURE.

Historical Introduction. Forms of Action. General Sketch of Proceedings. Logical Rules of Pleading. Common Law Pleading. Pleading in Equity. The Judicature Act and Rules.

BOOKS RECOMMENDED: *Orders, Pleadings and Practice; The N. S. Judicature Rules.*

## OFFICE PRACTICE

Lecturer.....BERNARD W. RUSSELL, B. A., LL. B.  
One hour per week.

Practical Office Work, Drawing Deeds, Agreements, etc., Preparing Writs, Statements of Claims, Pleadings, Notices, etc., Chambers' Motions.

## Faculty of Medicine

## Preliminary Statement

In accordance with an agreement entered into in 1911 between the Governors of Dalhousie University and the Corporation of the Halifax Medical College, the work of the latter institution was forthwith discontinued and instruction in all subjects of the medical curriculum is now given by the University.

By an arrangement between Dalhousie University and the Provincial Medical Board of Nova Scotia, the Professional examinations are conducted conjointly by the University and the Board, and hence candidates may qualify at the same time for their academic degrees and the licence of the Board. Students who look forward to practising in some other province are reminded that they must conform to the regulations prescribed by the Medical Board or Council of that province. Official information relative to the regulations for licence to practise in the various provinces may be obtained from the Registrars of the Provincial Medical Boards or Councils. The names and addresses of the Registrars of the Medical Boards for the Maritime Provinces and Newfoundland are as follows:

*Nova Scotia*—DR. A. W. H. LINDSAY, Halifax.

*New Brunswick*—DR. STEWART SKINNER, St. John.

*Prince Edward Island*—DR. S. R. JENKINS, Charlotte-town.

*Newfoundland*—DR. H. RENDALL, St. John's.

The General Medical Council of the United Kingdom admits graduates in Medicine of Dalhousie University who are at the same time duly registered in the Medical Register of Nova Scotia to the privilege of registration in the Colonial List of the British Medical Register. Such graduates thereby become entitled to the same privileges as persons registered in the regular Home Register. These privileges include the right to practise in Britain and in certain British colonies and other countries; also admission to the army and other medical services.

Graduates of Dalhousie University are accordingly eligible for nomination under the following Militia Order:

"The Imperial Army Council has intimated that two commissions in the Royal Army Medical Corps will be granted annually to candidates who have qualified in the Medical Schools of Canada."

For information relative to registration in the Colonial List of the British Register application should be made to the Medical Registrar of Nova Scotia. Information with regard to the Army Commissions will be furnished on application to the Militia Headquarters of the nearest Command or District.

### Equipment

In addition to the University laboratories of Biology, Physics and Chemistry, the equipment of the first of which has recently been largely increased through the generosity of James H. Dunn, Esq., of London, the University now controls the laboratories of Anatomy and Histology of the Medical School; suitable equipment has also been provided for laboratory work in Physiology; and the new laboratory of Pathology and Bacteriology, which has been erected and equipped by the Hospital Commission in connection with the Victoria General Hospital, is available for the use of medical students and affords superior facilities for both elementary and advanced study of these subjects.

As a result of a very satisfactory Anatomy Act, there is an ample supply of material for dissection and for Operative Surgery. In addition to mounted skeletons, there is a large supply of disarticulate bones, which are loaned to students free of charge for study at home.

The clinical advantages enjoyed by students in Halifax are exceptionally good owing to arrangements by which students are freely admitted for purposes of clinical instruction to the wards of the Victoria General Hospital, the Children's Hospital, the Lying-in and Hospital wards of the City Home, and the Nova Scotia Hospital for mental diseases. The three first-named institutions adjoin the University grounds.

The Victoria General Hospital, which accommodates 170 patients, affords admirable opportunities for the observation and study of the more acute and serious forms of disease. In its special wards, diseases of women and children, skin diseases and diseases of the eye, ear, throat and nose are clinically studied. In the Hospital wards of

the City Home, near by, are found the more chronic and incurable forms of disease; while in the Lying-in wards of the same institution, students are afforded facilities for acquiring experience in Practical Obstetrics.

In the Nova Scotia Hospital, accommodating 430 patients, students are able to study clinically the various forms of mental and nervous diseases.

Besides the above institutions, the Visiting Dispensary, which is open daily, provides the opportunities for observation and study commonly afforded by the out-patient department of hospitals. Clinical instruction is also given here in the diseases of the eye and ear.

It is expected that as the erection of the new University buildings at Studley progresses, additional accommodation will be provided for medical teaching in the present University building.

### General University Regulations

University regulations applicable to the students of all Faculties and relating to registration, residence, church attendance, discipline, conduct of examinations, etc., will be found in the University Calendar, pp. 15-17.

### Degrees

Two medical degrees are conferred viz., Doctor of Medicine (M. D.) and Master of Surgery (C. M.); but neither degree is conferred on any person who does not at the same time obtain the other.

### Academic Year

The Academic Year consists of one session of eight months' duration. The session of 1912-13 will begin on Tuesday, August 26th, 1913, and end on Thursday, April 30th, 1914.

### Admission and Grading

1. All Undergraduates in Medicine are admitted to the full work of the first year. Matriculants who have passed in all but one subject of the Matriculation or Preliminary examination and have obtained in this subject a mark of at least 25 per cent., are admitted to the course for medical degrees as if they had Undergraduate standing; but they are required to complete their Matriculation before being admitted to the second year of the course.

2. For admission to any class of the *second* year, a student must have passed in the classes preliminary or pre-requisite to such class as indicated in the syllabus under "Courses of Instruction," (pp. 94, *et seq.*)

3. For admission to the classes of the *third* or any higher year, an undergraduate must have passed the examinations required in the subjects of the preceding years.

4. Subject to the University regulations for the admission of students (see University Calendar, page 9), a Special student may be admitted to classes in this Faculty, but his attendance is not recognized as qualifying for a degree.

5. All students are required to enter their names in the University Register before entering any class (See "Registration," University Calendar, p. 15).

### Matriculation

Candidates for medical degrees must present certificates

(a) Of having passed either the Medical Matriculation examination (University Calendar, pp. 9-12), or the Preliminary examination of the Provincial Medical Board of Nova Scotia, or some other examination recognized by the Board as equivalent\*;

(b) Of having completed their sixteenth year before the passing of such examination.

The examinations recognized *pro tanto* by the Provincial Medical Board will be similarly recognized by this Faculty.

### Curriculum †

The course for the degrees of Doctor of Medicine and Master of Surgery extends over five years. Detailed in-

formation regarding the classes included in it will be found under "Courses of Instruction" (pp. 94, *et seq.*). The course is as follows:

|                       |                                     |
|-----------------------|-------------------------------------|
| <b>First Year</b>     |                                     |
| Anatomy 1.            | Physics 1B                          |
| Biology 1.            | Physiology 2.                       |
| Chemistry 1B          |                                     |
| <b>Second Year</b>    |                                     |
| Anatomy 2.            | Physiology 3.                       |
| Chemistry 3.          | Practical Materia Medica.           |
| Physiology 1.         |                                     |
| <b>Third Year</b>     |                                     |
| Physiology 4.         | Practical Surgery.                  |
| Materia Medica.       | Medicine 1.                         |
| Pathology 1.          | Practical Medicine.                 |
| Pathology 2.          | Obstetrics 1.                       |
| Surgery 1.            | Dispensary.                         |
| <b>Fourth Year</b>    |                                     |
| Surgery 2.            | Medical Jurisprudence.              |
| Clinical Surgery.     | Therapeutics.                       |
| Medicine 2.           | Hygiene.                            |
| Clinical Medicine.    | Post Mortems.                       |
| Obstetrics 2.         | Hospital.                           |
| Practical Obstetrics. |                                     |
| <b>Fifth Year</b>     |                                     |
| Anatomy 3.            | Skin Diseases.                      |
| Operative Surgery.    | Eye, Ear, Nose and Throat Diseases. |
| Clinical Surgery.     |                                     |
| Clinical Medicine.    | Dressing.                           |
| Clinical Obstetrics.  | Clerking.                           |
| Practical Obstetrics. | Vaccination.                        |
| Clinical Gynecology.  | Post Mortems.                       |
| Clinical Pediatrics.  | Hospital.                           |
| Mental Diseases.      |                                     |

### Regulations for Degrees

In addition to the Matriculation or Preliminary examination, candidates for degrees are required to pass five Professional examinations. The requirements in each subject are covered by the work of the class or classes in that subject specified under "Courses of Instruction" (pp. 94, *et seq.*). The examinations in the various subjects will

\*All information in reference to requirements for the Preliminary examination of the Provincial Medical Board, Examinations, etc. may be obtained on application to the Registrar of the Board, Dr. A. W. B. Lindsay, 329 Pleasant Street, Halifax.

† It is to be distinctly understood that the program and regulations regarding courses of study and examinations contained in this Calendar hold good for years ending April 30, 1924 only, and that the Faculty, while fully sensible of its obligations toward the students, does not hold itself bound to adhere absolutely for the entire period of a student's course to the conditions now laid down.

be held on the dates set in the University Almanac, or as posted on the Notice Boards, and are arranged as follows:

**\*FIRST PROFESSIONAL EXAMINATION.**

One paper in each of the following subjects: Anatomy, Biology, Chemistry, Physics, Histology.

**\*SECOND PROFESSIONAL EXAMINATION.**

One paper and an oral examination in each of the following: Anatomy, Physiology including Histology; and one paper and a laboratory examination in Chemistry.

**THIRD PROFESSIONAL EXAMINATION.**

One paper and an oral examination in (a) Materia Medica, and (b) Pathology and Bacteriology; and one paper in each of the following: (a) Physiology, (b) Surgery, (c) Medicine, (d) Obstetrics.

**FOURTH PROFESSIONAL EXAMINATION.**

One paper in each of the following subjects: (a) Surgery, (b) Medicine, (c) Obstetrics and Gynecology, (d) Medical Jurisprudence, (e) Hygiene.

**FIFTH PROFESSIONAL EXAMINATION.**

One paper and an oral examination in each of the following subjects: (a) Surgery in all departments and including Surgical Anatomy, (b) Medicine in all departments, (c) Obstetrics and Diseases of Women and Children, (d) Therapeutics and Hygiene. Also a practical clinical examination in (e) Surgery and in (f) Medicine.

**PASS AND DISTINCTION LISTS.**

The names of candidates successful in the examinations are arranged in the published lists in two divisions, the Pass and the Distinction division. To pass, a candidate must obtain a minimum mark of 40 per cent. in the pure sciences Biology, Chemistry and Physics, and a minimum mark of 50 per cent. in all other subjects. To win Distinction in any subject he must obtain a mark of 75 per cent. or over in that subject. The names in the "pass" division of the list are arranged in alphabetical order; the "distinctions" are in order of merit.

\*Candidates are permitted certain modifications of the above order so far as regards the first and second Professional examinations, subject to the regulations under "Admission to Examinations." (See p. 85).

**ADMISSION TO EXAMINATIONS.**

Candidates for admission to degree examinations must conform to the following requirements:

1. They must have passed the Matriculation or Preliminary examination (except as stated under "Admission" p. 85).
2. They must have attended the prescribed classes regularly and punctually. Certificates indicating less than 90 per cent. of attendance upon any class will not be accepted without valid reason for absence being shown.
3. They must have prepared such exercises, reports, etc., as may be prescribed, and in the case of classes involving laboratory or practical work, they must have completed such work satisfactorily.
4. For admission to the examinations of the second or any higher year they must have passed the examinations indicated in sec. 2 or 3, as the case may be, under "Admission and Grading" (page 86).
5. Candidates for the Final Professional examination will be required to subscribe to the following declaration with regard to their age:

HALIFAX....., 19..

I, the undersigned, being desirous of obtaining the Degrees of Doctor of Medicine and Master of Surgery, do hereby declare that I have attained the age of twenty-one years (or if the case be otherwise, that I shall have attained the age of twenty-one years before the next graduation day).

Signed, A. B.

**SUPPLEMENTARY EXAMINATIONS.**

1. A candidate who has failed to pass in one or more subjects of the first or second year shall be entitled to a Supplementary examination in such subjects, provided he has attained a sufficient standing in each of such subjects.
2. A candidate who has failed to pass in not more than two subjects of the degree examinations of the third or any higher year, shall be entitled to a Supplementary examination in such subjects.
3. A candidate who has failed to pass in more than two subjects at the third or any higher year examination, may be required to repeat his attendance and class work in these subjects before being admitted to re-examination.
4. Supplementary examinations are held in the Autumn on the dates specified in the University Almanac, and during the regular Professional examinations in April, but at no other times.



5. Application for admission to a Supplementary examination must be made on or before the date set in the University Almanac for receiving applications, on a form to be obtained from the Secretary of the Faculty of Medicine, and must be accompanied by the proper fee. (See p. 91).

#### EXEMPTIONS.

Candidates may be exempted from attendance on one or more subjects of the medical curriculum on presenting certificates

- (a) Of having passed the Matriculation, or an equivalent examination after the completion of their sixteenth year, and before entering upon their medical course;
- (b) Of having attended and performed the required class-work at any medical school or college recognized by the Senate.\*

Candidates may be exempted from examination in one or more subjects of the first four Professional examinations on presenting, in addition to the certificates specified under (a) and (b) above, certificates of having passed equivalent examinations at any medical school or college recognized by the Senate.

Certificates exempting from attendance and examination may be accepted in Biology, Physics, and Chemistry if when these classes were attended the candidate was qualified to offer them for an Arts or Science degree.

Candidates for a degree must spend at least one year of study in attendance at Dalhousie University.

#### SPONSIO ACADEMICA.

Before admission to his degree, a candidate shall be required to sign the following oath or affirmation:—

In facultate Medicinæ Universitatis Dalhousianæ.

Ego, Doctoratus in Arte Medica titulo jam donandus, sancto coram Deo cordium scrutatore, spondeo:—me in omni grati animi officio erga Universitatem Dalhousianam ad extremum vite halitum, perseveraturum. Tum porro Artem Medicam sancte, caste, probeque exercitaturum et quod poterit, omnia ad agrorum corporum salutem conducenda, cum fide procuraturum. Quæ demique, inter medendum visa vel audita silens conveniat, non sine gravi causa vulgaturum. Ita preces mihi spondenti adsi Nomen.

\*In regard to Practical Materia Medica a certificate of having had three months practice in the dispensing of drugs with a registered druggist or dispensing medical practitioner may be accepted.

### Medals and Prizes

**MEDICAL FACULTY MEDAL.**—This medal will be awarded on graduation to the student who stands first at the Final M. D., C. M. examination, provided he shall have obtained distinction in at least four of the six subjects of examination.

**DR. LINDSAY'S PRIZE.**—A prize of Books will be awarded to the student who stands first among those taking the Second Professional examination, provided he shall have obtained distinction in at least two of the three subjects of examination.

**DR. MACAULAY'S PRIZE.**—A prize of Books will be awarded to the student of the First Year, whose work during the session in the Practical Anatomy class shall be accounted most satisfactory.

**PROFESSOR D. FRASER HARRIS' PRIZE.**—This prize is awarded to the student in the Histology class who exhibits the best collection of microscopic preparations, together with the best set of drawings.

#### Fees

##### FOR REGISTRATION.

Registration fee payable by students taking one or more classes ..... \$ 5 00\*  
Additional, payable by all students registering after Thursday, September 11th ..... 1 00

The Registration Fee entitles a student to the use of the University Library.

##### FOR TUITION.

All Fees are payable in advance, and until the Fees are paid the student will not receive credit for attendance upon any class.

##### PAYABLE BY STUDENTS TAKING INDIVIDUAL CLASSES.

Anatomy 3, Practical Materia Medica, Practical Surgery, Practical Medicine, Practical Obstetrics, Clinical Obstetrics, Clinical Gynaecology, Mental Diseases, Skin Diseases, Eye Ear, Nose and Throat Diseases, Pediatrics, Clinical Pediatrics, Physiology 4, each ..... \$10 00  
Physics 1B, Chemistry 1B, Biology 1, each ..... 12 00  
Anatomy 2, Chemistry 3, Materia Medica, Surgery 1, Surgery 2, Clinical Surgery, Operative Surgery, Medicine 1, Medicine 2, Clinical Medicine, Obstetrics 1, Obstetrics 2, Medical Jurisprudence, Therapeutics, Hygiene, each ..... 15 00  
Anatomy 1, Physiology 1, Physiology 3, Histology, Pathology 1, Pathology 2, each ..... 20 00  
Practical Anatomy, each year ..... 25 00

\* Students who register only for the purpose of taking examinations are exempt from the payment of this fee.

## HOSPITALS.

Admission to Victoria General Hospital, Hospital Laboratory, Children's Hospital, City Home, Dispensary, each..\$5 00

The fees payable for attendance upon classes a second time shall be in accordance with the above schedule, but the total tuition fee for such classes shall in no case exceed fifty dollars, exclusive of fees for admission to hospitals.

The amount payable by a candidate for a degree who may be completing his course by attendance of only one year at Dalhousie University, shall be in accordance with the above schedule, provided that the amount so payable be in no case less than seventy-five dollars, exclusive of registration and examination fees.

## FEES PAYABLE BY STUDENTS TAKING THE CLASSES OF ANY ONE YEAR OF THE CURRICULUM.

|  |          |
|--|----------|
| For each year .....  | \$100 00 |
| Additional, payable by students registering after Thursday, September 11th ..... | 1 00     |

This amount includes the fees for registration and class tuition and also the requisite fees for admission to the Victoria General Hospital, Hospital Laboratory, City Home, and Dispensary, but does not include the fee payable for examinations.

## FOR EXAMINATIONS.

*An application for an examination must be accompanied by the proper fee.*

|  |         |
|--|---------|
| First or any subsequent Professional examination ..... | \$10 00 |
| Individual subjects, each subject .....                | 5 00    |
| Supplementary examinations, each subject .....         | 5 00    |

## FOR CERTIFICATES AND DIPLOMAS.

*An application for a Certificate or Diploma must be accompanied by the proper fee*

|   |         |
|---|---------|
| Certificate under the University seal .....         | \$ 1 00 |
| Diploma where degree is conferred in absentia ..... | 5 00    |

## Caution Deposit

Each male student on registration is required to deposit two dollars as caution money to cover damage done to furniture, apparatus, etc. This amount, less deductions (if any), will be returned at the close of the session. There shall be no deduction from the Caution Fund for damages which have been charged to or assumed by individuals.

## Laboratory Deposit

A student taking a class involving laboratory work is required to make a deposit of from two to five dollars on entering the class. This amount, or what remains of it after deducting any charges which may have been incurred for breakage or materials used, is returned to the student at the end of the session.

## Fee for Support of Student Organizations

At the request of the student body, as expressed by a ballot taken on the question and presented through The Council of the Students, a fee of \$5.00 will be collected on registration from each student who takes more than one class. This fee entitles the student to the privileges of any or all of the following student organizations: Dalhousie Amateur Athletic Club, Dalhousie Skating Club, Dalhousie Young Women's Christian Association, Delta Gamma, Dalhousie Dramatic Club, Sodales, and to a copy of the Dalhousie Gazette. A student taking only one class and desiring to take part in one or more of the above organizations must pay the fee of \$5.00.

## COURSES OF INSTRUCTION

## I.—ANATOMY

|                              |                                |
|------------------------------|--------------------------------|
| Professor .....              | A. W. H. LINDSAY, B. A., M. D. |
| Demonstrators .....          | M. A. MACAULAY, M. D., C. M.   |
|                              | K. A. MACKENZIE, M. D., C. M.  |
| Assistant Demonstrator ..... | J. RANKINE, M. D., C. M.       |

1. Lectures: *Monday, Wednesday and Friday, 12—1 P. M. Laboratory: Two hours daily except Saturday.*

The main subjects of this course, which is intended for first year students, will be Osteology and Arthrology. The general characters, structure, growth and development of bone will be first taken up. The entire skeleton will then be carefully studied, and each bone examined in detail, points of practical interest being especially referred to. In Arthrology the most important joints will be studied. A large supply of bones is kept on hand, and these are freely supplied to students, both in the Practical Anatomy Room and for study at home.

TEXT BOOKS: Cunningham, Gray, Gerrish, Quain.  
2. Lectures: *Tuesday and Thursday, 12—1 P. M. Laboratory: Two hours daily except Saturday.*

This course, intended for second year students, will include Regional Anatomy, the cavities of the body and contents, the eye, ear, larynx, etc., the brain, spinal cord, etc. Lectures will be illustrated by fresh dissections, plates, diagrams and models.

3. APPLIED ANATOMY.—This additional course will consist of lectures and demonstrations of those portions of anatomy which are essential for the understanding of practical medicine and surgery, and is therefore intended for students who are engaged in clinical work. The class will meet twice a week after the Christmas holidays.

## PRACTICAL ANATOMY.

Special attention will be given to this branch. The Dissecting Room will be open daily, except Saturday, and will be under the direct supervision of the Professor of Anatomy, assisted by the Demonstrators, one or other of whom, in addition to the Professor, will be present during the two hours while the class is in session every day, so that each student will be frequently examined and assisted during the progress of his dissections.

The course extends over two years, during which the student is required to have dissected each "part" twice.

TEXT BOOKS: Cunningham, Heath, Holden, Ellis.

## II.—BIOLOGY

Professor.....CLARENCE I. MOORE, M. A., F. R. S. C.

1. GENERAL BIOLOGY.—Lectures one hour per week; laboratory four hours per week.

Pre-requisite: Matriculation English.

The aim of this course is to acquaint the student with some of the more important biological facts and theories and results of biological work; also to serve as an introduction to biological methods. It includes a general survey of the plant and animal kingdoms and the discussion of topics of fundamental biological importance, e. g. protoplasm, cell and cell structure, reproduction, inheritance, variation, adaptations, evolution, etc.

## III. CHEMISTRY.

(McLeod Professorship.)

|                  |                        |
|------------------|------------------------|
| Professor .....  | E. MACKAY, PH. D.      |
| Instructor ..... | C. R. NICKERSON, A. M. |
| Assistant .....  |                        |

1B. GENERAL CHEMISTRY.—Lectures: *Monday, Wednesday and Friday, 11—12 A. M. Laboratory: Monday, Wednesday and Friday, 10—11 A. M.*

Pre-requisite: Matriculation Algebra and English.

Lectures on General Chemistry covering the same ground as in Chemistry 1 in the Faculty of Arts and Science (Calendar Faculty of Arts and Science, p. 65). At least three hours a week must be devoted to laboratory work. This work is designed to make the student familiar with ordinary laboratory operations and to lead him to solve simple problems in Chemistry by experiment. Several common inorganic substances are prepared and studied; and simple quantitative experiments leading to the fundamental laws of Chemistry are performed.

TEXT BOOK: Smith, *General Chemistry for Colleges.*

3. METALS AND CARBON.—Lectures: *Tuesday and Thursday, 9—10 A. M. Laboratory: Tuesday, Wednesday and Saturday, 10—11 A. M.*

Pre-requisite: Chemistry 1B.

Class Work.—Autumn term: Metals and their compounds, with special reference to those having medicinal or dental uses or toxic properties; elements of Physical Chemistry. Spring term: Organic Chemistry.

Laboratory Work.—Qualitative analysis, including the detection of the more commonly occurring poisons; exercises in Organic Chemistry.

TEXT BOOKS: Smith, *General Chemistry for Colleges; Reuss, Compounds of Carbon*, 4th edition; F. M. Perkins, *Qualitative Chemical Analysis*.

## IV.—PHYSICS

(George Munro Professorship.)

|                    |                            |
|--------------------|----------------------------|
| Professor .....    | EDWARD L. BRUNSON, PH. D.  |
| Demonstrator ..... | J. H. L. JOHNSTONE, B. SC. |

1B. GENERAL PHYSICS.—Monday, Wednesday and Friday, 9—10 A. M.

Pre-requisite: Matriculation Mathematics.

The whole subject of Experimental Physics is taken up, the subjects treated being: Kinematics, Dynamics, Properties of Matter, Sound, Heat, Electricity and Magnetism, Light and other forms of Radiation. The lectures are illustrated by experiments, and special attention is paid to the solution of problems, all students being required to hand in papers for correction and criticism.

Two hours a week are devoted to laboratory work. The laboratory class is divided into two sections, one of which meets on Thursdays from 11—1 and the other on Fridays from 2—4. The experiments selected for the course are designed to acquaint the student with the methods and instruments used in physical measurement. They will also assist him in grasping that part of the subject which is taught in the lectures.

BOOK RECOMMENDED: Carhart, *College Physics*.

## V.—PHYSIOLOGY

Professor.....D. FRANK HARRIS, M. D., D. Sc., F. R. S. E.  
 Demonstrator.....G. A. MACINTOSH, M. D., C. M.

The courses in Physiology and Practical Physiology include the study of the minute structure of the tissues and organs of man and the mammalia, and the composition and functions of the tissues, organs and systems of the human body.

## LECTURE COURSES.

1. GENERAL PHYSIOLOGY.—Mondays, Wednesdays, Fridays and Saturdays, 11—12 A. M.

Pre-requisite: Chemistry 1B, Physics 1B, Histology.

This course consists of 100 lectures and is designed to give the students of the second year a knowledge of the elements of Human Physiology, especially in its relations to practical medicine. The lectures will include the physiology of the sense organs, the nervous system, reproduction and development.

4. ADVANCED PHYSIOLOGY.—Tuesdays, 11 A. M.—12 M.  
 Pre-requisite: Physiology 1.

This course is intended for students of the third year; it will treat of such subjects as have not been dealt with in Physiology 1.

TEXT BOOK: Howell, *Text Book of Physiology*; FRANK HARRIS, *Nerves* (Horse University Library).

## PRACTICAL PHYSIOLOGY.

2. HISTOLOGY.—Tuesdays and Thursdays, 9—11 A. M.

This course, which consists of at least 50 meetings of two hours each, is intended for students of the first year. It is designed to give the student a knowledge of the minute structure of the blood and all the tissues and organs of the human body.

The student will also be instructed in the methods of fixing, staining and examining tissues, as well as in the use of the microscope for cutting sections in paraffin and in gum.

A microscope and reagents are provided for each student, but members of the class are required to bring slides, cover-glasses, dissecting needles, slide-cabinets and drawing books.

TEXT BOOK: Schafer, *Essentials of Histology*, latest edition.

3. (a) GENERAL PRACTICAL PHYSIOLOGY.—Fridays, 2—4 P. M.  
 This course is intended for students of the second year. It meets once a week for two hours during the first half of the session. It is designed to give the students a practical acquaintance with the methods of the graphic recording of physiological phenomena.

In this course each student uses the sphygmograph, the sphygmometer, the cardiograph, the stethoscope, the laryngoscope, the ophthalmoscope, etc., so as to become familiar with the instruments used in medical diagnosis.

(b) PRACTICAL PHYSIOLOGICAL CHEMISTRY.—Fridays, 2—4 P. M.

This course is intended for students of the second year. It meets once a week for two hours during the second half of the session. It is designed to give students a practical acquaintance with the chemical nature of the bodily secretions and excretions, as well as that of the food-stuffs. In this class the methods employed in clinical medicine for examining the blood and the urine will be studied.

TEXT BOOKS: Schuler *Experimental Physiology*.  
 Halliburton, *Essentials of Chemical Physiology*, latest edition.

## VI.—MATERIA MEDICA

Professor.....A. F. BUCKLEY, FRASM. L., M. D., C. M.  
 Demonstrator.....E. M. McLEOD.

## MATERIA MEDICA.

This course consists of seventy-five lectures and demonstrations, given in the third year. The official drugs of the British Pharmacopœia will be considered, also such non-official remedies as are considered advisable. As the principal drugs are discussed attention will be drawn to such points relating to their source, appearance, preparation, action, dosage, etc., as are important for students to know in view of their being prescribed. The drugs and their preparations are illustrated as far as is necessary. Great attention will be given to prescription writing and the student will be carefully exercised in this important feature of the work, so as to enable him to produce intelligent and elegant prescriptions.

TEXT BOOKS: Braas, Wood, Haas, Shoemaker, Petter, Soliman, Dixon.

## PRACTICAL MATERIA MEDICA.

This course consists of twenty-five meetings of two hours each for practical work. Students will be instructed in the processes of Pharmacy, and in the Dispensing and Incompatibility of drugs by the Demonstrator in the Pharmacy Laboratory.

This class should be taken in the second year before entering the Materia Medica class.

## VII.—PATHOLOGY AND BACTERIOLOGY

Professor.....M. A. LINDSAY, B. Sc., M. B., CH. B.

These courses will consist of:

1. LECTURES.—A series of lectures three days each week throughout the session on—

General Pathology, and General Pathological Anatomy, under which will be included, (a) The Derangements of Nutrition, Inflammation, Repair, Morbid Growth, etc.; (b) The Bacteriology and Morbid Anatomy of the more important Infective Diseases, and the subject of Immunity; (c) The Life History, Characters, and Pathogenic Effects of the Principal Animal Parasites.

In the latter part of the course the Morbid Anatomy and Histology of the various systems and organs will be studied.

2. LABORATORY WORK.—Classes for practical instruction in Morbid Anatomy, Pathological Histology and Bacteriology, will be carried on throughout the session, meeting on two days each week for two hours. The first part of the session will be occupied in the Histological investigation and preparation of Morbid Structures and Organs, while the latter part will be devoted to Bacteriological Methods.

In addition, demonstrations upon autopsy methods and upon Morbid Anatomy will be given from time to time, and regular instruction will be afforded in the methods of preparing tissues for examination. Students will be expected to assist at autopsies, and to make a complete and methodical examination of tissues removed, and to report upon the same. In this way practical experience will be gained in the technique of laboratory methods, and a series of microscopic preparations acquired.

TEXT BOOKS: Beattie and Dixon, *General and Special Pathology*; McFarland, *Text Book Pathology*; Muir and Ritchie, *Manual of Bacteriology*; Faught, *Essentials of Laboratory Diagnosis*.

## VIII—SURGERY

|                |                                    |
|----------------|------------------------------------|
| Professor..... | E. Y. HOGAN, M. D., C. M.          |
| Professor..... | JOHN STEWART, M. B., C. M., LL. D. |
| Lecturer.....  | PHILIP WEATHERS, M. B., CH. B.     |

1. A course of seventy-five lectures on the general principles of Surgery, to be given during the third year.
2. A course of seventy-five lectures on Regional Surgery, to be given during the fourth year.

TEXT BOOKS: Rose and Carless, Thomson and Miles, *American System*, Wharton and Carless.

3. OPERATIVE SURGERY.—A special course of Operative Surgery will be provided in the fifth year, in which, while descriptive instruction will be given by the teacher, students themselves, under supervision, will be required to perform operations on the cadaver.

TEXT BOOKS: Treves, Waring, MacGee.

## IX—CLINICAL SURGERY

|                   |                           |
|-------------------|---------------------------|
| Professor.....    | M. CRISHOLM, M. D., C. M. |
| Professor.....    | E. V. HOGAN, M. D., C. M. |
| Demonstrator..... | I. THOMAS, M. D., C. M.   |

In addition to lectures on cases at the hospital, students will be individually trained at the bedside in diagnosis and treatment by the lecturers.

All students before graduation will be required to produce evidence of having served for at least six months as dresser in the Surgical Wards and to submit complete histories of at least fifteen surgical cases.

PRACTICAL SURGERY.—The application of bandages, splints, and other surgical appliances, the use of instruments and the treatment of emergencies and cases of minor surgery will be taught by Dr. Thomas in the third year.

## X—MEDICINE

|                |  |
|----------------|--|
| Professor..... | L. M. SILVER, M. B., C. M.                                     |
| Professor..... | L. M. MURRAY, M. D., C. M.                                     |
| Lecturers..... | { W. D. FORREST, M. D., C. M.<br>K. A. MACKENZIE, M. D., C. M. |

1. A course of seventy-five lectures and recitations in which diseases of the digestive, circulatory, respiratory and genito-urinary systems, blood and ductless glands, will be discussed in the third year.

2. A course of seventy-five lectures and recitations in which infectious and constitutional diseases and those affecting the nervous system, will be taken up in the fourth year.

TEXT BOOKS: For class work, Osler, Anders. For reference, Roberts, Gibson, Osler, *Modern Medicine*; Church and Petersen *Nervous and Mental Diseases*.

## XI—CLINICAL MEDICINE

|                   |  |
|-------------------|--|
| Professors.....   | { L. M. SILVER, M. B., C. M.<br>M. A. R. SMITH, M. D., C. M. |
| Demonstrator..... |  |

## CLINICAL MEDICINE.

Clinical lectures and instruction will be given at the Victoria General Hospital at least three days a week throughout the session. Students will be called upon in rotation to examine cases.

All students before graduation will be required to produce evidence of having served for at least six months as clinical clerk in the Medical Wards and to submit complete histories of at least fifteen medical cases.

## PRACTICAL MEDICINE.

Practical instruction in Physical Diagnosis, Urinalysis and in the use of the various instruments required for clinical examinations will be given.

TEXT BOOKS: Budge, *Diagnosis of Internal Medicine*; Page, *Physical Diagnosis*; Purdy, *Urinanalysis*; Jacob *Atlas Clinical Medicine*; Mosser, *Medical Diagnosis*; Hutchinson & Rainey, *Clinical Methods*; Cabot, *Medical Diagnosis*; De Costa, *Physical Diagnosis*.

## XII—OBSTETRICS AND GYNECOLOGY

|                          |                           |
|--------------------------|---------------------------|
| Professor.....           | M. A. CUREY, B.A., J. D.  |
| Associate Professor..... | W. B. ALMON, M. D., C. M. |

## LECTURE COURSES.

- These courses will extend over two years of the curriculum.
1. In the third year seventy-five lectures will be given on the Principles and Practice of Midwifery, illustrated by diagrams, preserved specimens and the manikin.
  2. In the fourth year fifty lectures will be given on Practical and Operative Midwifery, and twenty-five lectures on Diseases of Women.

## CLINICAL.

Clinics on Diseases of Women will be given at the Victoria General Hospital every week, at which students of the fifth year will be called on in rotation to make gynecological examinations. Clinics in Obstetrics will be given in the Lying-in Wards of Maternity institutions.

## PRACTICAL OBSTETRICS.

Students of the fourth and fifth years will attend cases of labour in Maternity institutions, where they will receive practical instruction in the management and after treatment of labour. Each student before graduation must have attended at least six maternity cases.

TEXT BOOKS: *Obstetrics*—Hirst, Edgar, Williams. *Gynecology*—Hirst, Ashon, Pearson.

## XIII—MEDICAL JURISPRUDENCE

|                |   |
|----------------|---|
| Lecturers..... | { EDWARD BLACKBURN, M. D., C. M.<br>W. F. O'CONNOR, LL. B., K. C. |
|----------------|---|

This course will embrace as far as possible the following subjects:—

- I. Examination of persons found dead, with reference to:
  - (1) Identification, (2) Time of Death, (3) Cause of Death.

- II. Violent causes of Death:—(1) Drowning, (2) Strangulation.
- III. Poisons and Poisoning:—(1) Symptoms and post mortem appearances in cases of poisoning by the following agents: Inorganic—Mineral Acids, Solutions of Alkalis, Copper, Lead, Mercury, Antimony, Arsenic, Phosphorus; Organic—Oxalic Acid, Carbolic Acid, Opium, Strychnine, Belladonna, Aconite, Chloroform, Chloral Hydrate, Cyanides. (2) Duties of Medical men in cases of Poisoning as regards:—Observation, Treatment, and Preserving for analysis. (3) Preliminary Tests for detection of parts for Analysis. (4) Preliminary Tests for detection of parts for Analysis. (5) Preliminary Tests for detection of parts for Analysis.
- IV. Medico-legal points in connection with—Pregnancy, Delivery, Rape, Criminal Abortion, Infanticide, Assaults and Homicide, Wounds and other external Injuries, Malpractice, and Neglect of Duty.
- V. Mental capacity in relation to criminal Responsibility, Contracts and Wills. The Lunacy Laws in so far as they affect the Medical Practitioner when signing Certificates of Lunacy.

TEXT BOOKS: Taylor, Reese, Draper.

#### XIV.—THERAPEUTICS AND HYGIENE

Professor ..... D. A. CAMPBELL, M. D., C. M.  
 { J. R. COBURN, B. D., C. M.  
 Lecturers ..... { J. I. POTTER, M. D., C. M., P. A. M. C.

**THERAPEUTICS.**—In this course which will consist of fifty lectures to be given in the fourth year, the subject of General Therapeutics including the Therapeutic action of drugs and other remedial measures will be dealt with.

TEXT BOOK: Hare, *Practical Therapeutics*.

**HYGIENE.**—This course will consist of at least twenty-five lectures and at least ten demonstrations in which the following matters will be dealt with as far as possible by the lecturers:—

- I. Water in its relation to Health and Disease:—(1) The character and classification of Drinking Water. (2) Causes and Sources of the Impurities found in Water and Methods of Purification. (3) The Diseases conveyed by water, and the Methods of dealing with Epidemics of such Diseases.
- II. Air, in relation to Health and Disease:—(1) The Causes and Sources of the Impurities found in the Air. (2) The Diseases conveyed through the Air. (3) The quantity of Air necessary for Health, the Principles of Ventilation.
- III. Soil, in relation to Health and Disease:—(1) The Causes and Sources of the Impurities of the Soil, and the Methods of dealing with them. (2) Diseases connected with the Soil. (3) The Methods of dealing with Excreta and Sewage.
- IV. Food, in relation to Health and Disease:—(1) Dietetics. (2) The common Adulterations of the Chief Articles of Diet. (3) Diseases connected with Deficiency or Impurity of Food Supply.

- V. The Dwelling, in relation to Health and Disease:—The Principles of House Drainage.
- VI. The Principles of Disinfection, and the mode of Action of the Chief Disinfecting Agents.
- VII. The Provisions of "The Act for the Notification of Disease."  
 TEXT BOOK: *Am. Text Book*, Harrington.

#### XV.—SKIN DISEASES

Lecturer ..... JAMES ROSS, M. D., C. M.

This course will consist of not less than twenty-five lectures, chiefly clinical, to be given in the wards of the Victoria General Hospital.

Patients will be brought before the class and their condition examined into and demonstrated, and the appropriate treatment prescribed and illustrated.

TEXT BOOKS: Schamberg, Morris, Hardyway, Walker.

#### XVI.—EYE, EAR, NOSE AND THROAT DISEASES

Lecturer ..... R. EVATT MATHERS, M. D.

Didactic and Clinical instruction will be given in these subjects each week during the session, on Wednesdays, at 3 p. m., at the Victoria General Hospital, and at the Children's Hospital.

TEXT BOOKS: *Diseases of the Eye*—Jackson, May, Fuchs; *Diseases of the Ear*—Brill-Pollman, Buck, Busch; *Diseases of the Nose and Throat*—Cookley; *Diseases of the Ear, Nose and Throat*—Gleason.

#### XVII.—MENTAL DISEASES

Professor ..... W. H. HAYTE, M. D., C. M.

This course will comprise about fifteen lectures on the various forms of Insanity from a medical as well as from a forensic standpoint. The various types of mental disease will be illustrated by cases and clinical instruction will be given to final students at intervals throughout the session at the Nova Scotia Hospital.

#### XVIII.—CLINICAL PEDIATRICS

A course of clinical lectures illustrative of Disease in Children will be given on Saturdays throughout the session by members of the staffs of the Victoria General Hospital, the Children's Hospital, the Infectious Diseases Hospital, and of the Infants' Home.

#### XIX.—VACCINATION

Students will receive instruction in this subject at the Dispensary, Infants' Home, and other institutions. They will be required to perform the operation and note results so as to obtain a certificate of proficiency.

## Faculty of Dentistry

### Statement

An agreement was consummated in 1911 between the Board of Governors of Dalhousie University and the Provincial Dental Board of Nova Scotia, whereby the Maritime Dental College was merged into the Faculty of Dentistry of the University.

The instruction in the purely scientific subjects and in the professional subjects common to Dentistry and Medicine is taken by Dental students in common with the students of the Faculties of Arts and Science and of Medicine in the regular University Class Rooms and Laboratories. The purely Dental subjects are given in the Dental Apartments, where are provided a well equipped Dental Infirmary and Laboratories. More Dental Infirmary practice is available than can receive attention. The Victoria General Hospital is near by, and affords an abundant surgical clinic. It is thus seen that superior privileges are here conveniently grouped for the thorough education of the student in Dental Surgery. The Provincial Dental Board of Nova Scotia has appointed the Examiners of the Faculty, together with seven other dentists, to act as the Provincial Examining Board for purposes of registration. Hence a successful candidate for the degree of D. D. S. of this University who conforms to the regulations of the Dental Board is qualified without further examination to practise in Nova Scotia.

### IMPORTANT NOTICE.

Students are reminded that the Dental degree does not necessarily qualify for admission to practice in any province, each province having its own regulations for admission, to which a candidate must conform. Particulars regarding the qualification for registration in the Maritime Provinces may be obtained from the respective Registrars, who are as follows:

For Nova Scotia: Dr. G. K. Thomson, Halifax, N. S.

For New Brunswick: Dr. F. A. Godsoe, St. John, N. B.

For Prince Edward Island: Dr. J. S. Bagnall, Charlottetown, P. E. I.

For Newfoundland: Dr. T. P. Smith, St. John's, Newfoundland.

### Dominion Dental Council\*

The Dominion Dental Council of Canada is a central organization under the control of the dental profession of Canada. Its object is to erect and maintain a standard of education and ethics for the dental profession, and to conduct professional examinations and issue Certificates of Qualification which shall be accepted without further examination by the provinces.

Dental students who comply with the Matriculation or Preliminary Education requirements and term of studentship, and who graduate from an accepted Canadian Dental College, and pass the examination of the Dominion Dental Council of Canada, may be registered in any province in Canada without further examination (Quebec and British Columbia excepted). If a student commences and proceeds according to the regulations, this is easily within his reach.

It is strongly recommended that all intending students comply with the Matriculation requirements of the Dominion Dental Council, and thus be saved much annoyance and disappointment.

Candidates for the Dental degree in this Faculty who conform to the regulations of the Dominion Dental Council of Canada, are admitted to the examinations of the Council, and if successful are entitled to registration without further examination in all provinces of Canada, except Quebec and British Columbia.

### General University Regulations

University regulations applicable to the students of all Faculties and relating to residence, church attendance, discipline, and the conduct of examinations will be found in the University Calendar, pp. 15-17.

### Academic Year

The Academic Year consists of eight months for each of the first, second and third years, and of seven months for the fourth year. The session of 1913-14 will begin on August 26th, 1913. Lectures for the first, second and third years will begin on September 3rd, and for the fourth year on September 30th, 1913.

\*For information address Dr. W. D. Cowan, Secretary of the Dominion Dental Council, Regina, Sask.

### Admission of Students

Women are admitted to classes under the same conditions as men.

No person under sixteen years of age is admitted to any class.

No person is admitted to the course for the Dental degree who has failed in more than one subject of the Matriculation or Preliminary examination; and Matriculation must be completed before the student is admitted to the third year of the course.

A student will be admitted to the classes of the second year provided he has not failed in more than one subject of the previous year. A student cannot enter the third or fourth year, except in special cases, unless he has passed in *all* the subjects of the previous years.

Before being admitted all intending students from Nova Scotia must register with the Provincial Dental Board.

Students from other provinces in Canada, or other countries, must present such certificates of Preliminary Education or Matriculation as are specified and accepted by the Dominion Dental Council of Canada, or by the province in Canada in which they are regularly registered as Dental students, provided that the certificates of such provinces meet the standards set by Dalhousie University.

### Matriculation

Candidates for the Dental degree must present certificates of having passed either the Matriculation examination with Latin as one of the languages selected (University Calendar, pp. 9-12), or the Preliminary examination of the Provincial Dental Board of Nova Scotia, or some other examination recognized as equivalent.

The examinations recognized *pro tanto* by the Provincial Dental Board will be similarly recognized by this Faculty.

### Curriculum

It is to be distinctly understood that the program and regulations regarding courses of study and examinations contained in this Calendar hold good for year ending April 30, 1914 only, and that the Faculty, while fully sensible of its obligations towards the students, does not hold itself bound to adhere absolutely for the entire period of a student's course to the conditions now laid down.

#### First Year

*Lectures.*—Anatomy 1A, Chemistry 1B, Histology, Physics 1B, Operative and Prosthetic Dentistry.

*Laboratory.*—Practical Anatomy, Chemistry, Physics, Histology, Operative and Prosthetic Technic.

#### Second Year

*Lectures.*—Anatomy 2A, Chemistry 3, Physiology 1, Physiology 3B, Operative and Prosthetic Dentistry, Comparative Dental Anatomy.

*Laboratory.*—Practical Anatomy, Chemistry, Operative and Prosthetic Technic.

#### Third Year

*Lectures.*—Prosthetic Dentistry, Crown and Bridge Work and Ceramics, Operative Dentistry, Orthodontia, Materia Medica, General Pathology and Bacteriology, Dental Pathology and Therapeutics, Surgery and Anesthetics, Metallurgy.

*Laboratory.*—Prosthetic and Operative Dentistry, Dental Infirmary, Crown and Bridge Work and Porcelain, Pathology and Bacteriology, Metallurgy, Orthodontia.

#### Fourth Year

*Lectures.*—General and Oral Surgery, Operative and Prosthetic Dentistry, Orthodontia, Hygiene, History, Ethics and Jurisprudence, Crown and Bridge Work, Ceramics, Röntgenology.

*Laboratory.*—Prosthetic Laboratory, Dental Infirmary, Hospital, Crown and Bridge Work and Ceramics, Orthodontia.

### Regulations For Degrees

In addition to the Matriculation or Preliminary examination, candidates for degrees are required to pass four Professional examinations, one at the end of each year of the course, on the dates set in the University Almanac. The examinations are arranged as follows:

#### FIRST PROFESSIONAL EXAMINATION.

One paper in each of the following subjects: Anatomy, Chemistry, Physics, Histology, Operative Dentistry, Prosthetic Dentistry.

#### SECOND PROFESSIONAL EXAMINATION.

One paper in each of the following: Chemistry, Physiology, Operative Dentistry, Prosthetic Dentistry and Comparative Anatomy, and one paper and an oral examination in Anatomy.

#### THIRD PROFESSIONAL EXAMINATION.

One paper in each of the following: Prosthetic Dentistry, Crown and Bridge Work and Ceramics, Opera-



tive Dentistry, Orthodontia, Materia Medica, General Pathology and Bacteriology, Dental Pathology and Therapeutics, Metallurgy.

#### FOURTH PROFESSIONAL EXAMINATION.

One paper in History, Ethics and Jurisprudence; one paper and an oral examination in each of the following: (a) Surgery and Anæsthetics, (b) Operative Dentistry, (c) Prosthetic Dentistry, (d) Crown and Bridge Work and Ceramics, and Hygiene, and an oral examination in Orthodontia.

#### PASS AND DISTINCTION LISTS.

The names of successful candidates are arranged in the published lists in two divisions, the Pass and the Distinction division. To pass, a candidate must obtain a minimum mark of 40 per cent. in the pure sciences, Chemistry and Physics, and a minimum mark of 50 per cent. in all other subjects. For Distinction in any given subject he must obtain a mark of 75 per cent. or over. The names for Distinction are arranged according to merit, the Pass list in alphabetical order.

#### ADMISSION TO EXAMINATIONS.

Candidates must conform to the following requirements in order to qualify for admission to the Professional examinations:

1. They must attend the prescribed classes of the Dental Curriculum regularly and punctually. Certificates indicating less than 90 per cent. of attendance upon any class will not be accepted unless valid reason for absence be shown.
2. They must prepare such exercises, reports, etc., as may be prescribed, and in the case of classes involving laboratory or practical work they must complete such work satisfactorily.
3. Candidates for the Final Professional examination will be required to subscribe to the following declaration with regard to their age:

HALIFAX, N. S. . . . . 19. . . . .

I, the undersigned, being desirous of obtaining the Degree of Doctor of Dental Surgery, do hereby declare that I have attained the age of twenty-one years (or if the case be otherwise, that I shall have attained the age of twenty-one years before the next graduation day).

Signed,

A. B.

#### SUPPLEMENTARY EXAMINATIONS.

A candidate who has failed to pass in not more than two subjects of the Professional examination of any year shall be entitled to a Supplementary examination in such subjects, provided he is qualified in attendance and class-work for admission to examination.

A candidate who has failed to pass in more than two subjects of any Professional examination shall be required to repeat his attendance and class work in all the subjects of the year.

Supplementary examinations are held on the dates specified in the University Almanac in September, and during the regular Professional examinations in April, but at no other times.

#### Exemptions

Candidates may be exempted from examination in one or more subjects of the first three Professional examinations on presenting certificates satisfactory to the Senate and complying with the regulations of the University.

#### Concurrent Courses

Arrangements have been made for concurrent courses in Medicine and Dentistry, whereby a student may obtain the M. D., C. M. and D. D. S. degrees in seven years—thus saving two sessions.

In order to do this the student must at the beginning of his course present such certificates of preliminary education as are accepted by the Provincial Medical Board.

During the first four years while pursuing the Dental course the student will complete the first and second years of the Medical course; the third, fourth and fifth years will be taken after graduation in Dentistry; or the Medical course may be taken first and the Dental course can be completed after graduation in Medicine.

By a similar arrangement concurrent courses may be taken leading to the degrees of B. A. and D. D. S.; and B. Sc. and D. D. S.

#### Instruments and Appliances

Lathes, vulcanizers, porcelain furnace and the heavier appliances of the Laboratory are supplied by the Dental College.

The student must provide all other instruments and tools for both Laboratory and Infirmary. Intending

students should communicate as early as possible with the Dean for information concerning this matter. The borrowing of instruments is absolutely forbidden.

### Prize

THE MARITIME DENTAL SUPPLY COMPANY, LTD., of Halifax, offers a prize of Twenty-five Dollars to the student in the first year who makes the best general average in all subjects in the Spring Examinations, 1914.

### Fees

*All fees are payable in advance, and until the fees are paid the student will not receive credit for attendance upon any class.*

#### FOR REGISTRATION.

Registration, payable annually ..... \$ 5 00  
Additional, for late registration, (See Almanac)..... 1 00

The Registration Fee entitles a student to the use of the University Library.

#### FOR TUITION.

For the classes of any one year of the Curriculum.....\$100 00

A class taken a second time is charged for as if taken for the first time. The charge for such class will be determined by the Dean of the Faculty.

If a student is compelled to withdraw from college before December 1st through illness or for some other approved reason, one-half of his tuition fees will be refunded.

#### FOR EXAMINATIONS.

*An application for Examination must be accompanied by the proper fee.*

Matriculation examination at outside centre .....\$ 5 00  
\*Supplementary Matriculation examination..... 2 00  
\*Special Matriculation examination..... 4 00  
†Professional examination, each year of the Curriculum... 10 00  
Supplementary examination, each subject ..... 5 00

#### FOR CERTIFICATES AND DIPLOMAS.

*An application for a Certificate or Diploma must be accompanied by the proper fee.*

Certificate under the University seal .....\$ 1 00  
Additional fee for a degree conferred in absentia ..... 5 00

\*A matriculation examination taken by a student after his second Autumn term of attendance at the University will be charged for as a Supplementary or Special examination, according to the time when the examination is taken.

†This includes the diploma fee. When a candidate for the D. D. S. degree has not taken all his professional examinations at the University, the total fee payable to the University shall be \$40.00.

### CAUTION DEPOSIT.

Each male student on registration is required to deposit two dollars as caution money to cover damage done to furniture, apparatus, etc. This amount, less deductions (if any), will be returned at the close of the session. There shall be no deduction from the Caution Fund for damages which have been charged to or assumed by individuals.

### LABORATORY DEPOSIT.

A student taking a class involving laboratory work is required to make a deposit of from two to five dollars on entering the class. This amount, or what remains of it after deducting any charges which may have been incurred for breakage or materials used, is returned to the student at the end of the session.

### Fee for Support of Student Organizations

At the request of the student body, as expressed by a ballot taken on the question and presented through The Council of the Students, a fee of \$5.00 will be collected on registration from each student who takes more than one class. This fee entitles the student to the privileges of any or all of the following student organizations: Dalhousie Amateur Athletic Club, Dalhousie Skating Club, Dalhousie Young Women's Christian Association, Delta Gamma, Dalhousie Dramatic Club, Sodales, and to a copy of the Dalhousie Gazette. A student taking only one class and desiring to take part in one or more of the above organizations must pay the fee of \$5.00.

## COURSES OF INSTRUCTION

**OPERATIVE DENTISTRY**

F. W. RYAN, D. D. S.  
W. H. H. BACKWITS, D. D. S.  
R. E. MACDONALD, D. D. S.

Instruction in this subject continues throughout the four years. It will proceed from a consideration of the general anatomy of the teeth and the relations of the different dental tissues, through the processes involved in operative technic, to a study of the whole subject of Operative Dentistry.

The course will be thoroughly illustrated and demonstrated in the Technic Laboratory, and by the personal practice of the students in the Operative Infirmary.

**ORTHODONTIA**

W. W. WOOSBURY, D. D. S.

This subject will be presented in a course of lectures and clinical demonstrations during the third and fourth years.

The course of instruction will proceed from a discussion of normal conditions to the various derangements of alignment of the teeth, the abnormalities of the dental arch and consequent deformities of the face, and interference with mastication. The methods and appliances adopted to correct or ameliorate these conditions will be practically applied.

**PROSTHETIC DENTISTRY**

S. G. RYCKIE, D. M. D.  
H. WOOSBURY, D. D. S.  
G. H. FLUCK, D. D. S.  
R. H. WOOSBURY, D. D. S.

This course continues throughout the four years. The instruction is didactic and practical. The teaching and Laboratory Technic are designed to impart a working knowledge of all that appertains to Dental Prosthesis. Technic will be carried along in proper sequence and at the earliest moment students will be required to construct dental appliances of various kinds for patients in the Infirmary.

**COMPARATIVE DENTAL ANATOMY.**

A course of lectures in the classification of Dental Types, and the evolution of dental organs from simple to complex forms, will be given during a part of the second year.

**METALLURGY**

K. MACKAY, PH. D.

A course of lectures and demonstrations in Metallurgy will be given during a part of the third year.

**CROWN AND BRIDGE WORK, CERAMICS AND HYGIENE**

GEORGE K. THOMSON, D. D. S.  
WARREN C. OXNER, D. D. S.

This subject will be presented by lectures, demonstrations and laboratory experiments. It will continue throughout the third and fourth years, with Infirmary practice.

Gold and Porcelain Crown Bridge and Inlay Construction, including casting methods, will receive proper attention. The latest type of electric furnace and casting machine are provided for the use of the students. Students who may desire to use their own electrical furnaces will be supplied with electric connections.

Oral Hygiene will receive the consideration which its great importance demands. The student will be taught the most approved manipulation and therapeutic methods for effecting as far as may be, a condition of immunity in the oral tissues.

**DENTAL PATHOLOGY AND THERAPEUTICS**

A. W. COSWELL, M. D., C. M., D. D. S.

The course is designed to supplement the instruction given in the lectures on Dental Pathology and Therapeutics. Practical application of the teachings will be made in the Infirmary clinic during the third and fourth years. The principles of sterilization will be carefully taught.

**HISTORY, DENTAL ETHICS, JURISPRUDENCE AND ECONOMICS**

FRANK WOOSBURY, D. D. S.

*History*—History and development of Dentistry.

*Ethics*—A brief statement of the important principles of morals and obligations of professional men to their patients, other practitioners, and the public.

*Jurisprudence*—The qualifications and duties of expert witnesses, dental records, responsibilities of practitioners, &c.

**GENERAL AND ORAL SURGERY AND ANAESTHETICS**

F. V. WOOSBURY, M. D., C. M.

*Surgery*—This course is given during the third and fourth years. It consists of lectures on surgical principles and procedure, approved methods of treatment, including operations and clinics.

It is especially intended that this course of instruction shall embrace those conditions which the dentist is likely to meet in his practice, not omitting careful attention to the minor surgical operations which the dentist should ordinarily perform, while giving a basis of instruction to those who may aspire to a practice in Oral Surgery in the future.

*Anaesthetics*—This subject is taught both theoretically and practically. The lectures include the physiological action and toxicology of all general and local anaesthetics. Emergencies and modes of resuscitation will receive very thorough consideration.

**RADIOLOGY**

W. H. EAGAR, M. D., C. M.

The course consists of lectures and demonstrations given during part of the fourth year, showing technic employed and results obtained, both on patients and skeleton. Lectures will be illustrated with films and plates.

**ANATOMY**

Professor..... A. W. H. LINDSAY, M. D., C. M.  
 M. A. MACATEL, M. D., C. M.  
 Demonstrators..... (K. A. MACKENZIE, M. D., C. M.  
 J. RANKINE, M. D., C. M.)

**LECTURES AND PRACTICAL.**

**1A.** This course is intended for students of the first year. The class will meet three times a week, on Monday, Wednesday and Friday. The main subjects of the course will be Osteology and Arthrology. The general character, structure, growth and development of bones will be first taken up. The entire skeleton will then be carefully studied, and each bone examined in detail, points of practical interest being especially referred to. In Arthrology the most important joints will be studied. A large supply of bones is kept on hand, and these are freely supplied to students, both in the Practical Anatomy room and for study at home.

**2A.** The course will include Regional Anatomy, the cavities of the body and contents, the eye, ear, larynx, etc., the brain, spinal cord, etc. Lectures will be illustrated by fresh dissections, plates, diagrams and models. This class will meet twice a week, on Tuesday and Thursday.

TEXT BOOKS: Cunningham, Gray, Gerrish, Quain.

**PRACTICAL ANATOMY**

Special attention will be given to this branch. The dissecting room will be open daily, except Saturday, and will be under the direct supervision of the Professor of Anatomy, assisted by the Demonstrators, one or other of whom, in addition to the Professor, will be present every day, so that each student will be frequently examined and assisted during the progress of his dissections. Dental students must dissect the head and neck and one other part in each year.

TEXT BOOKS: Cunningham, Heath, Holden, Ellis.

**CHEMISTRY**

(McLeod Professorship.)

Professor..... E. MACKAY, Ph. D.  
 Instructor..... C. R. NICHOLSON, A. M.  
 Assistant.....

**1B.** Lectures: Mondays, Wednesdays and Fridays, 11-12 A.M.  
 Laboratory: Mondays, Wednesdays and Fridays, 10-11 A.M.

Lectures in General Chemistry covering the same ground as in Chemistry 1 in the Faculty of Arts and Science. At least three hours a week must be devoted to laboratory work.

TEXT BOOK: Smith, General Chemistry for Colleges.

**3.** Lectures: Tuesdays and Thursdays, 9-10 A.M. Laboratory: Tuesdays, Thursdays and Saturdays, 10-11 A. M.

Students entering this class must have taken Chemistry 1 B, or an equivalent class in Chemistry.

**Class Work**—Autumn term: Metals and their compounds, with special reference to those having medicinal or dental uses or toxic properties; elements of Physical Chemistry.  
 Spring term: Organic Chemistry.

**Laboratory Work**—Qualitative analysis, including the detection of the more commonly occurring poisons; exercises in Organic Chemistry.

TEXT BOOKS: Smith, General Chemistry for Colleges; Remsen, Compounds of Carbon, 4th Edition; F. M. Perkin, Qualitative Analysis.

The general laboratory is open to students in Dentistry from 10 to 11 a. m. daily.

Laboratory students are allowed the use of all the more inexpensive reagents. They are required to provide themselves with the more expensive reagents as alcohol and ether, and they are charged with the value of the apparatus they have broken or injured.

All members of practical classes are required to keep a detailed record of their laboratory work. The character of this record is a factor in determining the standing of a student in the class lists.

**PHYSICS**

(McNair Professorship.)

Professor.....HOWARD L. BRONSON, Ph. D.  
 Demonstrator.....J. H. L. JOHNSTON, B. A.

**1B.** GENERAL PHYSICS: Mondays, Wednesdays and Fridays, 9-10 A. M.

The lectures are illustrated by experiments, and special attention is paid to the solution of problems, all students being required to hand in papers for correction and criticism. The whole subject of Experimental Physics is taken up, the subjects treated being Kinematics, Dynamics, Properties of matter, Sound, Heat, Electricity and Magnetism, Light and other forms of Radiation.

Two hours a week are devoted to Laboratory work. The Laboratory class is divided into two sections, one of which meets on Thursdays from 11-1 and the other on Fridays from 3-4. The experiments selected for the course are designed to acquaint the student with the methods and instruments used in physical measurement. They will also assist him in grasping that part of the subject which is taught in the lectures.

BOOKS RECOMMENDED: Carhart, College Physics.

**PHYSIOLOGY AND HISTOLOGY**

Professor.....DAVID FRASER HARRIS, M. D., D. Sc.

**1. LECTURES ON GENERAL PHYSIOLOGY.**

This course consists of seventy-five lectures, and is designed to give the students of the second year a knowledge of the elements of Human Physiology. Special attention will be paid to the physiology of the mouth and of digestion.

TEXT BOOK: Howell, Text Book of Physiology.

**PRACTICAL PHYSIOLOGY.**

**2. HISTOLOGY.**

This course, which consists of seventy-five meetings of two hours each, is intended for students of the first year.

It is designed to give the student a knowledge of the minute structure of the blood and all the tissues and organs of the human body. Special attention will be paid to the microscopic structure of the teeth and gums. Demonstrations will be made of dried preparations, and sections of decalcified teeth in situ will be given out.

The students will be instructed in the methods of fixing, staining and examining tissues, as well as in the use of microtomes for cutting sections in paraffin and in gum.

A microscope and reagents are provided for each student, but members of the class are required to bring slides, cover-glasses, dissecting-needles, slide-cabinets and drawing books.  
TEXT BOOK: Schäfer, *Essentials of Histology* (Latest Edition).

### 3B. PRACTICAL PHYSIOLOGICAL CHEMISTRY.

This course, which is intended for students of the second year, meets once a week (Fridays) for two hours, during the second half of the session. It is designed to give students a practical acquaintance with the chemical nature of the bodily secretions and excretions, as well as that of the food-stuffs. In this class the methods employed in clinical medicine for examining the blood and the urine will be studied.

TEXT BOOK: Halliburton, *Essentials of Chemical Physiology*.

### MATERIA MEDICA

Professor.....A. F. BUCKLEY, Pharm. L., M. D., C. M.

This course consists of about fifty lectures and demonstrations given in the third year. The official drugs of the British Pharmacopoeia will be considered, also such non-official remedies as will be considered advisable. As the principal drugs are discussed attention will be drawn to such points as are important for the student to know in view of their being prescribed. The drugs and their preparations are illustrated as far as is necessary.

TEXT BOOKS: Brigg, Wood, Marc, Shoemaker, Potter, Sellman. Dink.

### PATHOLOGY AND BACTERIOLOGY

Professor.....M. A. LINDSAY, M. B., CH. B.  
LECTURES.

1. General Pathology and General Pathological Anatomy, under which will be included (a) The derangements of nutrition, inflammation, repair, morbid growths, etc.; (b) The bacteriology and morbid anatomy of the more important infective diseases, and the subject of immunity; (c) The life history, characters, and pathogenic effects of the principal animal parasites. This class will meet three times a week throughout the year.

### LABORATORY WORK.

2. Classes for practical instruction in Morbid Anatomy, Pathological Histology and Bacteriology will be carried on two days each week for two hours. Part of the session will be occupied in the histological investigation and preparation of morbid structures and organs, and part will be devoted to bacteriological methods.

TEXT BOOKS: Beattie and Dickson, *General and Special Pathology*; Woodhead, *Practical Pathology*; Muir and Ritchie, *Path. Sect.*

## Societies

### THE ALUMNI ASSOCIATION

Organized in 1871. Incorporated in 1876

#### OFFICERS.

|                                       |   |
|---------------------------------------|---|
| <i>Honorary President</i> .....       | REV. J. FORREST, D.D., D.C.L., LL.D.                  |
| <i>President</i> .....                | G. F. PEARSON, LL. B.                                 |
| <i>First Vice-President</i> .....     | C. J. BURCHELL, M. A.                                 |
| <i>Second Vice-President</i> .....    | F. V. WOODBURY, D. D. S.                              |
| <i>Secretary-Treasurer</i> .....      | M. MACNEILL, M. A.                                    |
|                                       | R. M. MACGREGOR, B. A., M. L. A.<br>(To retire 1914). |
| <i>Representative Governors</i> ..... | C. H. MITCHELL, ESQ.<br>(To retire 1916).             |
|                                       | W. B. WALLACE, LL. B.<br>(To retire 1915).            |
|                                       | G. HENDERSON.   |
|                                       | A. H. BUCKLEY.  |
| <i>Other members of the</i>           | J. S. ROYCE, M. A.                                    |
| <i>Executive</i> .....                | J. H. TREMPY, M. A.                                   |
|                                       | H. H. BLOIS.  |
|                                       | R. A. CLEMEN,<br>Alumni Editor of Gazette.            |
| <i>Auditors</i> .....                 | J. M. GELBERT, LL. B.                                 |
|                                       | S. A. MORTON, M. A.                                   |

#### OFFICERS OF LOCAL BRANCHES.

##### Cape Breton—

|                        |                         |
|------------------------|-------------------------|
| <i>President</i> ..... | D. M. CAMPBELL.         |
| <i>Secretary</i> ..... | W. A. CHEELMAN, Sydney. |

##### New England—

|                        |   |
|------------------------|---|
| <i>President</i> ..... | K. G. T. WENSTER, Harv. Univ.           |
| <i>Secretary</i> ..... | R. DAVIS, 22 Gray St., Cambridge, Mass. |

##### Saskatchewan—

|                        |                        |
|------------------------|------------------------|
| <i>President</i> ..... | A. M. YOUNG, M. D.     |
| <i>Secretary</i> ..... | D. MACLEAN, Saskatoon. |

##### British Columbia—

|                        |                           |
|------------------------|---------------------------|
| <i>President</i> ..... | MR. JUSTICE MORRISON.     |
| <i>Secretary</i> ..... | J. W. C. BOAK, Vancouver. |

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## THE ALUMNÆ ASSOCIATION

(Organized in March, 1909.)

### OFFICERS.

|                                      |                                |
|--------------------------------------|--------------------------------|
| <i>Honorary President</i> .....      | MRS. TRUMAN, M. A.             |
| <i>President</i> .....               | MISS JEAN FORBES, M. A.        |
| <i>First Vice-President</i> .....    | MISS FLORENCE BLACKWOOD, B. A. |
| <i>Second Vice-President</i> .....   | MRS. EDNEY FORBES, New Glasgow |
| <i>Recording Secretary</i> .....     | MISS FILLIS DEAN, B. A.        |
| <i>Corresponding Secretary</i> ..... | MISS HELEN ARMITAGE, B. A.     |
| <i>Treasurer</i> .....               | MISS GRACE SAUNDERS,           |

28 Carleton Street, Halifax.

|   |                      |
|---|----------------------|
| <i>Other members of the<br/>Executive Committee</i> ... | Mrs. H. L. BRONSON.  |
|   | Mrs. G. S. CARSON.   |
|   | Miss OLIVE SMITH.    |
|   | Mrs. JAMES MARSHALL. |

MISS HELEN MARSHALL.

## STUDENT SOCIETIES

Council of Students of the University.

### OFFICERS.

|                             |                               |
|-----------------------------|-------------------------------|
| <i>President</i> .....      | J. MCG. STEWART, B. A. (Law). |
| <i>Vice-President</i> ..... | PETER MACAULAY, (Arts)        |
| <i>Secretary</i> .....      | F. D. GRAHAM, B. A. (Arts).   |
| <i>Treasurer</i> .....      | C. W. PARKER, (Dent.).        |

Other members of the Council:

|   |                    |
|---|--------------------|
|   | C. A. EVANS.       |
|   | W. L. FRASER.      |
|   | J. B. HAYES, B. A. |
| <i>From Faculty of Arts<br/>and Science</i> ..... | D. H. KING.        |
|   | J. H. LAWLEY.      |
|   | M. MACLEOD.        |
|   | N. G. REID.        |
| <i>From Faculty of Law</i> .....                  | W. A. ROSS.        |
|   | W. R. COULTER.     |
| <i>From Faculty of Medicine</i> ..                | H. W. KIRKPATRICK. |
|   | H. S. MOORE.       |

### The Gazette.

The DALHOUSIE GAZETTE is published by the students of the University under the authority of the Council.

The following have been appointed by the students of the University, and approved by the Council, as Editors for 1913-14:—

|   |
|---|
| <i>Editor in Chief</i> , W. MCG. NELSON, B. A. (Law). |
| H. G. MCLEOD (Arts '14). H. W. KIRKPATRICK (Med.).    |
| C. M. MCINNES (Arts '15). C. W. PARKER (Dent.).       |
| J. MARTIN (Arts '16).                                 |

|                           |                                  |
|---------------------------|----------------------------------|
| <i>Lady Editors</i> ..... | MISS K. E. ALLEN (Arts '13).     |
|                           | MISS E. L. MACKENZIE (Arts '14). |

|                            |                         |
|----------------------------|-------------------------|
| <i>Alumni Editor</i> ..... | RUDOLF A. CLEMEN, B. A. |
| <i>Alumnæ Editor</i> ..... |                         |

PETER MACAULAY *Business Manager*.  
J. N. LYONS, *Assistant Business Manager*.

### Arts and Science Students' Society.

This Society meets in October and April to conduct business in which the Arts students alone are interested. Special meetings may be called at any time by the President.

### OFFICERS.

|                                  |                       |
|----------------------------------|-----------------------|
| <i>President</i> .....           | J. A. MACMILLAN, '14. |
| <i>Vice-President</i> .....      | M. F. JOHNSTON, '16.  |
| <i>Secretary-Treasurer</i> ..... | R. MCG. DAWSON, '15.  |
| <i>Executive Committee</i> ..... | J. MCG. STEWART.      |
|                                  | R. R. MOONEY.         |
|                                  | C. M. MCINNES.        |

### The Sodales Debating Club.

The Sodales Debating Club meets fortnightly during the session, subjects of general interest being discussed.

### OFFICERS.

|                                  |                    |
|----------------------------------|--------------------|
| <i>Honorary President</i> .....  | PROF. MACMECHAN.   |
| <i>President</i> .....           | A. G. MACLENNAN.   |
| <i>Vice-President</i> .....      | MACINTOSH MACLEOD. |
| <i>Secretary-Treasurer</i> ..... | E. C. PHENNEY.     |
| <i>Executive Committee</i> ..... | G. DEW, YOUNG.     |
|                                  | J. A. DOULL.       |
|                                  | C. M. MCINNES.     |

**Law Students' Society.**

This Society meets at the opening of the session for general business, and thereafter at such times as the President may deem necessary.

**OFFICERS.**

|                           |                  |
|---------------------------|------------------|
| President .....           | F. G. BRADLEY.   |
| Vice-President .....      | M. A. PATTERSON. |
| Secretary-Treasurer ..... | E. R. MACNUTT.   |

**The Mock Parliament.**

The Mock Parliament meets every Monday night until the Christmas vacation. All students of the University are welcome, but only students taking Law classes are allowed to take part in the debates, which are wholly of a political character on current questions. Parliamentary procedure is strictly observed.

**OFFICERS.**

|                            |                  |
|----------------------------|------------------|
| Speaker .....              | H. PINES.        |
| Premier .....              | E. C. PRINNEY.   |
| Leader of Opposition ..... | J. W. MACDONALD. |

**The Moot Court.**

The Moot Court is intended for law students only, so far as arguing is concerned. It is conducted as nearly as possible after the manner of the Supreme Courts; and all law students of second and third year standing are required to take part in at least one case during the session. (See Faculty of Law.)

**The Medical Students Debating Society.**

The meetings of this Society are held weekly throughout the session. Topics of general interest are discussed, and papers on medical subjects are read.

**OFFICERS.**

|                           |                    |
|---------------------------|--------------------|
| President .....           | W. T. MCKROUGH.    |
| Vice-President .....      | F. B. LITTLE.      |
| Secretary .....           | P. M. GITTLESON.   |
| Treasurer .....           | H. W. KIRKPATRICK. |
|                           | C. L. GASS.        |
|                           | J. S. BIRAN.       |
| Executive Committee ..... | V. D. DAVIDSON.    |
|                           | J. A. CURRIE.      |
|                           | M. G. TOMPKINS.    |

**Young Men's Christian Association.**

Meetings of the Association are held every Saturday evening at the College.

**OFFICERS.**

|                           |                    |
|---------------------------|--------------------|
| Honorary President .....  | PROF. C. D. HOWE.  |
| President .....           | MACINTOSH MACLEOD. |
| Vice-President .....      | J. G. D. CAMPBELL. |
| Permanent Secretary ..... | W. R. AULD, B. A.  |
| Recording Secretary ..... | GEORGE MACLEOD.    |
| Treasurer .....           |                    |

**Young Women's Christian Association.**

Meetings of the Association are held every Thursday afternoon at 5 o'clock.

**OFFICERS.**

|                      |                  |
|----------------------|------------------|
| President .....      | EDA NELSON.      |
| Vice-President ..... | JEAN CRAIG.      |
| Treasurer .....      | MABEL C. MACKAY. |
| Secretary .....      | LILY I. BAYNE.   |

**Dalhousie Dramatic Club.****OFFICERS.**

|                           |                       |
|---------------------------|-----------------------|
| Honorary President .....  | PRESIDENT MACKENZIE.  |
| President .....           | C. L. GASS, B. A.     |
| Vice-President .....      | HARRIET BONE.         |
| Secretary-Treasurer ..... | J. STANLEY FRASER.    |
| Musical Director .....    | MRS. G. FRED PEARSON. |
|                           | J. N. LYONS.          |
| Executive Committee ..... | MARY M. CURRIE.       |
|                           | EMMA C. GILLIES.      |

**The Dalhousie Amateur Athletic Club.**

|                             |                      |
|-----------------------------|----------------------|
| Honorary President .....    | REV. DR. J. FORREST. |
| President .....             | W. A. ROSS.          |
| Vice-President .....        | GEORGE H. CAMPBELL.  |
| Secretary .....             | J. N. LYONS.         |
| Treasurer .....             | E. C. PRINNEY.       |
|                             | F. D. GRAHAM.        |
|                             | G. H. CAMPBELL.      |
| Executive Committee .....   | J. S. BIRAN.         |
|                             | E. C. PRINNEY.       |
|                             | H. B. ARCHIBALD.     |
| Captain Football Team ..... | H. PINES.            |

**The Delta Gamma Society.**

The Delta-Gamma Society meets bi-monthly during the session. All lady students are eligible for membership. Debates are held, and literary programmes are prepared.

|                             |                   |
|-----------------------------|-------------------|
| <i>President</i> .....      | JESSIE MACDONALD. |
| <i>Vice-President</i> ..... | MARION SMITH.     |
| <i>Secretary</i> .....      | AGNES HALL.       |
| <i>Treasurer</i> .....      | LOUISE POWER.     |

**The Dalhousie Skating Club**

|                                  |  |
|----------------------------------|--|
| <i>Honorary President</i> .....  | PRESIDENT MACKENZIE.   |
| <i>President</i> .....           | D. S. MCCURRY.   |
| <i>Vice-President</i> .....      | AGNES BOSS.  |
| <i>Secretary</i> .....           | J. S. FRASER.  |
| <i>Treasurer</i> .....           | E. R. MACNUTE.   |
| <i>Executive Committee</i> ..... | { W. A. BOSS (Arts),<br>R. M. DAWSON (Law),<br>A. E. BLACKETT (Med). |

**AFFILIATED COLLEGES****The Prince of Wales College**

(Founded in 1860)

Prince of Wales College, Charlottetown, amalgamated with the Provincial Normal School of Prince Edward Island in 1879, is intended to provide for young people of both sexes a liberal education in literature and science, and also to educate and train teachers for the Public Schools of the Province. Its curriculum is conformed to the common needs of the teacher and of the student seeking a general education.

The College course is planned for a term of three years. Admission to the College is to the First Year, or lowest class. Students who attain a high mark at the matriculation examination will be permitted, if on further examination found worthy, to enter the Second Year.

To the Second Year are admitted all students who have made 60 per cent. in the examinations of the First Year, and also those persons who hold a Provincial license of the Second Class.

To the Third Year are admitted those who have made 60 per cent. in the Second Year work, and also those persons who hold a license of the First Class.

At the close of the session Honour Diplomas are granted to Third Year students who make over 65 per cent. in the examinations of the year; to those students who have shown throughout their course exceptional merit, High Honour Diplomas are issued.

Certificates are granted to Second Year students who make an average of 65 per cent. in the examinations of their year. These Certificates entitle their holders to First Class license without further examination, providing that Normal training has also been taken.

Students holding High Honour Diplomas are admitted to the Third Year of the B. A. Course in Dalhousie, those holding Honour Diplomas to the Second, those holding Certificates or First Class licenses to the First Year.

**Halifax Conservatory of Music.**

|                        |                |
|------------------------|----------------|
| <i>President</i> ..... | REV. R. LAING. |
| <i>Director</i> .....  | HARRY DEAN.    |

The University recognizes the teaching of the Conservatory as part of the qualifications required for the degree of Bachelor of Music and for the Diploma of Licentiate of Music.



## Halifax Ladies' College.

Principal ..... MRS. TRUMAN, M. A.

Students who have completed the regular course and received the Diploma are admitted to the Arts course without further examination.

## Convent of the Sacred Heart.

Nether Superior ..... MADAME CONWELL.

Students who have completed the regular course and receive the Diploma are admitted to the Arts course without further examination.

## University Lists.

## DEGREES

CONFERRED APRIL 24TH, 1913.

## MASTER OF ARTS

BEATRICE EUGENIE MUMFORD, B. A.—By Examination in Greek and Latin.

MINNIE LENORE SMITH, B. A.—By Examination in English and Latin.

## MASTER OF SCIENCE

WILLIAM CLARK STAPLETON, B. Sc.—By Examination in Chemistry.

## BACHELOR OF ARTS

MARY LOUISE CLAYTON ..... Halifax.  
 CATHERINE JEAN FRASER ..... Westville, Pictou Co.  
 JANET SUTHERLAND MACDONALD ..... Sherbrooke, Que., Co.  
 MARIE IRENE MCINTOSH ..... Sauris, P. E. I.  
 LOIS CHRISTINE MACKINLAY ..... Charlottetown, P. E. I.  
 MARGARET MCNAUGHTON McLEAN ..... Thorburn, Pictou Co.  
 DOROTHY EXAULT MUNNIE ..... Halifax.  
 MARGARET WOODLARD NICOLL ..... Halifax.  
 HELEN GERTRUDE DOUGLAS STEVEN ..... Summerside, P. E. I.  
 ERNEST VICTOR ACKERSTUR ..... Halifax.  
 WALTER RICHARD AULD ..... Pictou, P. E. I.  
 WALTER MELVILLE BILLMAN ..... Halifax.  
 RUSSEL ALEXANDER LEOPOLD CLEMEN ..... Halifax.  
 ROBERT EARLE DAY ..... St. John, N. B.  
 JOHN BARRIE DECKIE ..... Truro.  
 HAYNE DEWITT EARLE ..... Passages, N. B.  
 FRANK DUNSTONE GRAHAM ..... Halifax.  
 DAVID ADAMS GUILDFORD ..... Halifax.  
 ARTHUR MACIVER ..... Port Bevis, C. B.  
 CHARLES ALEXANDER MACKAY ..... Truro.  
 NORMAN ERICHSEN MACKAY ..... Halifax.  
 ALEXANDER LESLIE McLEAN ..... Thorburn, Pictou Co.  
 WALTON ARBUTHNOT MACGABRIEL ..... Hampden, P. E. I.  
 WILLIAM McCULLY NELSON ..... Taramagouche.  
 BENJAMIN CHALMERS SAETER ..... Chatham, N. B.  
 ERNEST SPUDDIN SMITH ..... North Sydney, C. B.  
 HAROLD ARCHEBOLD SMITH ..... Sydney, C. B.  
 COLIN GEORGE SUTHERLAND ..... New Glasgow.  
 JOHN KING SWANSON ..... Kentville.  
 ALAN RUTHIE YEOHMAN ..... Halifax.  
 ROBERT FORSYTH YEOHMAN ..... Halifax.

## BACHELOR OF SCIENCE

JAMES BRITTAIN CARBON ..... Dartmouth.  
 GEORGE DAVID FLOYD ..... Westville.  
 JAMES BERTHAM HAYES, B. A. .... Halifax.  
 ALAN MACKENZIE JAMES ..... Halifax.

## BACHELOR OF LAWS

|   |                       |
|---|-----------------------|
| CHARLES GUY BLACK, M. A. ....             | Oxford.               |
| JAMES BACON DICKSON .....                 | Fredericton, N. B.    |
| GEORGE FREDERICK HESER LONG .....         | Centreville, N. B.    |
| ALEXANDER THOMAS MACKAY, B. A. ....       | Pictou.               |
| MURDOCH ALEXANDER MACPHERSON .....        | Grand Anse, Rich. Co. |
| CLARENCE McDONALD MALONEY .....           | Trinidad, B. W. I.    |
| JOSEPH ENOIL MICHAUD, B. A. (Laval) ..... | Edmundston, N. B.     |
| HESMAN CLARE MORSE, B. A. (King's) .....  | Midleton.             |
| EUGENE THOMP PARKER, B. A. ....           | Belleisle.            |
| JOHN SHENSTONE HOPPE, M. A. ....          | Halifax.              |
| WILLIAM HENRY SCINNES .....               | Calgary, Alberta.     |
| JAMES DOUGLAS VAIR, B. A. ....            | Pictou.               |

## DOCTOR OF MEDICINE AND MASTER OF SURGERY

|                                       |                   |
|---------------------------------------|-------------------|
| GEOFFREY ALLEN BARRS .....            | Dartmouth.        |
| ROBERT OWEN BETHUNE .....             | Baddeck.          |
| ALEXANDER IRE CAMPBELL, B. A. ....    | Halifax.          |
| FRANCIS STANTLEAD FENLAY .....        | Halifax.          |
| JAMES MACGREGOR JOHNSON .....         | Tetamagouche.     |
| ALBERT HUGH MACKINNON .....           | Pictou Landing.   |
| ARTHUR AUGUSTINE CUTBERT WILSON ..... | Springhill Mines. |

## DOCTOR OF DENTAL SURGERY

|                           |       |
|---------------------------|-------|
| ANSON DUNCAN HOPPER ..... | Yves. |
|---------------------------|-------|

## DEGREES PREVIOUSLY CONFERRED DURING THE SESSION

## BACHELOR OF ARTS

|                                |                  |
|--------------------------------|------------------|
| CHARLOTTE FILLIS BOAK .....    | Halifax.         |
| CHARLES EDWARD MACKENZIE ..... | Springhill.      |
| BEVERLY FRANK McLEOD .....     | Penobscot, N. B. |
| EUGENE THOMP PARKER .....      | Belleisle.       |

## DOCTOR OF DENTAL SURGERY

|                          |                   |
|--------------------------|-------------------|
| JOHN ANTHONY BURKE ..... | St. John's, Nfld. |
|--------------------------|-------------------|

## HONOURS, PRIZES AND MEDALS

1918-1919

## DIPLOMAS OF HONOUR

CLASSICS.—*High Honours*.—Walter Melville Hillman.  
 PHILOSOPHY.—*Honours*.—Robert Earle Day, Ernest Spurgeon Smith.

## DIPLOMAS OF GENERAL DISTINCTION

*Great Distinction*.—Frank Dunstone Graham, Norman Ericson MacKay, Helen Gertrude Douglas Steeves, Robert Forsyth Yeoman.  
*Distinction*.—Mary Louise Clayton, Charles Alexander Mackay, Waldron Abbott MacQuarrie.

## GRADUATE PRIZES AND MEDALS

GOVERNOR GENERAL'S GOLD MEDAL.—Walter Melville Hillman.  
 AVERY PRIZE.—Norman Ericson MacKay.  
 NOMINATION TO RHODES SCHOLARSHIP.—Walter Melville Hillman.

## UNDERGRADUATE SCHOLARSHIPS AND PRIZES

*Junior Entrance Scholarship:*

SIR WM. YOUNG SCHOLARSHIPS.—Annie L. McGrath, (Prince of Wales College); William E. Harris, (Pictou Academy); C. J. Roche, (Halifax Academy); J. K. McLeod, (Sydney Mines High School); C. D. Piper, (Truro Academy); H. B. Vickery, (Yarmouth Academy).

*Special Prizes:*

WANKLEY PRIZE (Mathematics)—Mary Louise Clayton.  
 ALUMNAE BURSARY (Best woman student in third year)—Lillian Bayer and Annie L. McGrath.  
 JOTHEM BLANCHARD BURSARY (Highest standing in the first year)—Bessie L. Hall.  
 DR. LINDSAY PRIZE (2nd Prof. Examination)—Arthur Hines.  
 PRACTICAL HISTOLOGY PRIZE (Presented by Dr. Fraser Harris)—C. E. Fuller.  
 MARITIME DENTAL SUPPLY CO. PRIZE (Highest standing in 1st year Dental subjects)—Gordon B. Richardson.  
 MYLIUS GOLD MEDAL (Highest standing in Pharmacy Course)—John C. Sellen.

## ENTRANCE STANDING.

## FACULTY OF ARTS AND SCIENCE

## STANDING GRANTED TO STUDENTS ENTERING IN 1912.

## MATRICULATION

## UNDERGRADUATE STANDING.

Bayne, Lily L.; Bower, D. M.; Churchill, E. Rachel; Crawford, E. A.; Creighton, Lois; Creelman, Emma K.; Dawson, J. A.; Duncan, F. A.; Gray, K. H.; Hall, Bessie L.; Harris, W. E.; Holland, C. W.; Hoar, D. W.; Leslie, R. J.; McGrath, Annie L.; Mackenzie, C. G.; MacKinnon, M. C.; McLatchey, E. B.; McLeod, Annie May; McLeod, J. K.; McLeod, G. D.; MacNeily, W. H.; Malcolm, Florence; Marshall, D. F.; Moore, E. H.; Murray, Claude; Piper, C. D.; Power, Mary L.; Rayner, H. S.; Rattee, N. M.; Rogers, W. M.; Roche, C. J.; Ross, Mary A.; Ross, A. G.; Seaman, A. T.; Strickland, L. C.; Stewart, Amy M.; Vickery, H. B.

## MATRICULANT STANDING IN SUBJECTS NAMED.

Bennett, C. N.—Latin, Greek, French, English, Mathematics.  
 Brookfield, G. P.—Latin, Greek, French, English, Mathematics.  
 Fox, F. B.—Latin, Greek, English, History, Geometry.  
 Fultz, S. L.—Episcopiary English, German, Mathematics.  
 Henry, E. Blanche.—History, Mathematics.  
 Johnston, M. F.—English, History, Geometry.  
 Lantz, F. C.—French, English, History, Mathematics.  
 Lawley, J. H.—English, History, Mathematics.  
 Macdonald, R. C.—Latin, French, English, History, Algebra.  
 McInnes, Anna J.—English, History, Mathematics.  
 MacKay, Mable C.—Latin, French, German, English, Mathematics.  
 MacLennan, C. F.—English, History, Mathematics.  
 Martin, J. P.—French, English, History, Mathematics.  
 Matheson, H. A.—Latin, English, History, Mathematics.  
 Moore, R. C.—Engineering, French, English, History, Mathematics.  
 Mooney, R. B.—English, History, Mathematics.  
 Moseley, P. H.—Latin, History, Mathematics.  
 Mowat, Katherine S.—Latin, French, English, History, Algebra, Trigonometry.  
 Musgrave, W. B.—Latin, History, Mathematics.  
 Nicholson, John—English, History, Mathematics.  
 Noble, C. O.—Engineering English, German, History, Mathematics.  
 O'Bryen, Hilda—French, English, History, Mathematics.  
 Pullen, W.—French, English, History, Mathematics.  
 Finney, K. C.—English, History, Geometry, Trigonometry.  
 Ross, Frances G.—Latin, English, History, Mathematics.  
 Stairs, G. L.—Latin, French, Mathematics.  
 Whitman, P. L.—English, History, Mathematics.  
 Zinck, A. A.—Latin, English, History, Mathematics.

## SPECIAL STUDENTS.

Allum, H. A.; Bell, Annie; Bell, Constance; Bishop, Violet; Blackley, C. P.; Bonk, H. M.; Chambers, Gwladys; Charman, R. E.; Chonglop, Edward; Conzely, Jean; Fraser, J. M.; Freeman,

P. W.; Gray, Ethel; Guildford, Mary; Hart, Ruth; Harvey, Naomi; Inglis, Constance; Holmes, G. R.; Kane, Helen; Logan, Alice; Macdonald, A. A.; McDonald, S. G.; McDonald, N. E.; McIntosh, Jennie; MacLeod, J. A.; Munro, Edna; Richey, C. A.; Rowland, Yerna; Saeer, Margaret; St. Arnald, Mrs. H.; Shreve, Florence V.; Williams, Florence M.

## ADVANCED STANDING

## CREDITS FOR UNDERGRADUATE STANDING.

Bennett, C. N.—Latin 1, English 1, Mathematics 1.  
 Bower, D. M.—French 1, English 1.  
 Churchill, E. R.—English 1, 2, German 1.  
 Crawford, E. H.—Latin 1, English 1, French 1.  
 Creelman, Emma K.—Latin 1, French 1, German 1, English 1, Mathematics 1.  
 Dawson, J. A.—Latin 1, French 1, English 1.  
 Fox, F. B.—Latin 1, Greek 1, English 1.  
 Fultz, S. L.—Mathematics 1.  
 Gray, K. H.—Latin 1, English 1, Mathematics 1.  
 Harris, W. E.—Latin 1, French 1, German 1, English 1, Mathematics 1.  
 Hoar, D. W.—Latin 1, French 1, German 1, English 1.  
 Leslie, R. J.—Latin 1, French 1, English 1.  
 McGrath, Annie L.—Latin 1, 2, French 1, 2, Greek 1, 2, English 1, 2, Mathematics 1, Chemistry 1.  
 MacKay, Mable C.—Latin 1, French 1, English 1, German 1.  
 MacKenzie, C. G.—Latin 1, Greek 1, English 1, Mathematics 1, Chemistry 1.  
 MacKinnon, M. C.—Latin 1, Greek 1, English 1, Mathematics 1, Chemistry 1.  
 MacLeod, Annie M.—Latin 1, French 1, German 1, English 1.  
 McLeod, G. D.—Latin 1, Greek 1, English 1, Mathematics 1, Chemistry 1.  
 MacNeily, W. H.—Latin 1, German 1, English 1, Mathematics 1.  
 Marshall, D. F.—English 1.  
 Matheson, H. A.—Latin 1, English 1, Mathematics 1.  
 Moore, E. H.—Latin 1, French 1, English 1, Mathematics 1.  
 Moseley, P. H.—Latin 1, Mathematics 1.  
 Murray, Claude—Latin 1, 2, 3, French 1, 2, English 1, 2, 3, Philosophy 1, History 1.  
 Pallen, W.—Mathematics 1.  
 Piper, C. D.—Latin 1, French 1, English 1, Mathematics 1.  
 Rayner, H. S.—Latin 1, French 1, English 1, Mathematics 1, Chemistry 1.  
 Rattee, N. M.—Latin 1, Greek 1, English 1, Mathematics 1, Chemistry 1.  
 Rogers, W. M.—Mathematics 1.  
 Roche, C. J.—Latin 1, Greek 1, English 1.  
 Ross, F. G.—Latin 1, English 1.  
 Seaman, A. T.—Latin 1, French 1, English 1, Mathematics 1, Chemistry 1.  
 Strickland, L. C.—English 1, Mathematics 1.  
 Stewart, Amy M.—Latin 1.  
 Vickery, H. B.—Latin 1, French 1, English 1, Mathematics 1.  
 Zinck, A. A.—Latin 1, English 1.

## EXAMINATIONS, 1912-13

## FACULTY OF ARTS AND SCIENCE

## MATRICULATION

## Names in Alphabetical Order.

PASSOFT.—LATIN.—Dobovan, James A.; Fraser, J. S.; McLeod, John K.; Rutledge, James E.

GREEK.—Brown, Gordon C.

FRENCH.—Chonglop, Edward; Holland, Clyde W.; MacGregor, Alford F.; Piers, Judith F.; Ross, Mary A.; Whitman, P. L.

GERMAN.—Anstee, Kenneth J.; Hall, Bessie L.

ENGLISH.—Allen, Henry A.; Baylis, Lily L.; Hanehard, Henry H.; Campbell, Katherine L.; Chisholm, G. P.; Coulter, W. B.; Creighton, Howard A.; Deane, William; Donovan, James A.; Faltz, Stephen L. (Engineering); Holland, Clyde W.; Johnston, M. F.; Little, Garnet A.; MacAloney, Ralph G. (Engineering); Macdonald, Boderic C.; Nicholson, John; Pearman, Lionel G. (Engineering); Porter, William A.; Rogers, William M.; Smith, Gerald E.

HISTORY.—Colquhoun, Catherine C.; Doane, William; Holland, Clyde W.; Johnston, M. F.; Macdonald, Boderic C.; Pearman, Lionel G.; Piers, Judith F.; Nicholson, John; Rogers, William M.

GEOMETRY AND TRIGONOMETRY.—Creighton, Lois S.; Hall, Agnes; Johnston, M. F.; Macdonald, James W.; McIntosh, James W. (Engineering); Noble, Clarke, O. (Engineering); Pearman, Lionel G. (Engineering); Power, Mary L.; Ross, Alexander A.; Ross, Mary A.

ALGEBRA.—Britton, Harry E.; Creighton, Howard A.; Creighton, Lois S.; Daley, Gordon M.; Hall, Bessie L.; Leslie, Robert J.; McCurdy, Edward G.; Macdonald, James W.; McDonald, James W.; MacIntosh, James M. (Engineering); McLeod, John K.; Pearman, Lionel G. (Engineering); Ross, Agnes S.

## SUPPLEMENTARY AND SPECIAL EXAMINATIONS

## Names in Alphabetical Order.

LATIN, MATRICULATION.—Bethune, R. O.; McLeod, B. F.

LATIN 1.—Crows, Clara Alice; Currie, Mary Maud; MacKenzie, Emelyn L.; McLeod, B. F.; MacNeily, W. H.; Patrick, Ivan.

LATIN 2.—Crows, Clara Alice; Grant, W. A.; Hawkins, C. R.; McLellan, F. F.; Morrison, Katie; Nelson, Edna; Patrick, Ivan; Porter, Williamina J.; Ross, Agnes S.; Salter, R. C.; Smith, Marion.

LATIN 4.—Allen, Kathleen E.; Book, C. Fillis; Clemens, E. A.; Colquhoun, Lillias; Guildford, D. A.; McIntosh, Mabel I.; Nicoll, Margaret W.; Parker, E. T.; Sutherland, C. G.; Swanson, J. K.; Umlah, Annie L. B.

GREEK 2.—McLeod, B. F.; Salter, R. C.

FRENCH, MATRICULATION.—Brookfield, G. P.; Campbell, Katherine L.; Zwicker, F. H.

FRENCH 1.—Clayton, E. R.; Colquhoun, Lillias; Currie, Mary M.

FRENCH 2.—McCabe, J. M. S.; MacMahon, H. A.

FRENCH 5.—Curson, J. R.

GERMAN, MATRICULATION.—Fraser, W. L.

GERMAN 1.—Anstee, K. J.; Floyd, G. D.; James, A. M.; Macdonald, J. H.

ENGLISH, MATRICULATION.—Brookfield, G. P.; Heller, F. A.

ENGLISH 1.—Campbell, Katherine L.; Chisholm, William H.; Colquhoun, Catherine; Ferguson, Elizabeth C.; Hanright, F. E.; Hawkins, May; Hoar, Daniel; MacAskill, J.; Porter, W. Arthur; Roseborough, Una R.; Stairs, Graham.

ENGLISH 2.—McLeod, J. C.; Zwicker, R. J.

ENGLISH 4.—McLeod, B. F.

ENGLISH 5.—Farley, S.; Fraser, C. Jean; Guildford, D. A.; Heller, F. A.; Maciver, A. P.; Sibley, Gladys.

BIBLICAL LITERATURE.—Hall, Agnes F.; Irving, W. S.; Sibley, Gladys.

PHILOSOPHY 1.—Campbell, L. R.; Clemens, Rudolf; Cunningham, Velma; Henry, Jean; McLean, Margaret; MacKenzie, C. E.; Umlah, Annie L. R.

PHILOSOPHY 2.—Dickie, J. R.

PHILOSOPHY, GREEK.—McLeod, B. F.

PHILOSOPHY 2.—Guildford, D. A.

HISTORY AND GEOGRAPHY, MATRICULATION.—Bell, Marjorie.

HISTORY 1.—MacMillan, D. A.

HISTORY 2.—Book, C. Fillis; Earle, B. D.; McLean, Margaret; Sibley, Gladys.

ECONOMICS 1.—Earle, B. D.; MacLeod, MacIntosh; MacLean, G. M.; MacMillan, J. A.; Porter, Williamina; Sibley, Gladys M.; Zwicker, R. J.

MATHEMATICS, MATRICULATION.—GEOMETRY AND TRIGONOMETRY.—McKay, J. W. ALGEBRA.—Murray, H. A.

MATHEMATICS 1.—Book, C. Fillis; Clayton, E. R.; Ferguson, Elizabeth C.; Gray, E. H. (Algebra); McCurdy, E. G.; Macdonald, J. H.; Moseley, Frank H.; Perry, W. J.; Ross, Agnes S.

MATHEMATICS 2.—McKinnon, James.

MATHEMATICS 3.—Campbell, Jean P.; Crows, W. P.; McGrath, W. N.

MATHEMATICS 4.—Gray, S. W.

CHEMISTRY 1.—Cunningham, Velma; Hawkins, G. May; Salter, L. M.

CHEMISTRY 1A.—Campbell, Donald S.; Slesiewicz, T.

CHEMISTRY 4.—Cooks, N. L.; James, A. M.

MECHANICS.—Anstee, K. J.; MacArthur, J. W.

PHYSICS 1.—Haeuler, F. E.

PHYSICS 1A.—Crows, W. P.

PHYSICS 6.—Crows, W. P.

GEOLOGY 1.—Zwicker, R. J.

BIOLOGY 1.—Colquhoun, Lillias; Lindsay, R. D.; McCurdy, D. S.; McLellan, F. F.; Sibley, Gladys M.

DRAWING 2.—Froeman, R. P.; Zwicker, F. H.

CONSTITUTIONAL HISTORY.—Hawkins, C. R.; MacMillan, J. A.

CONSTITUTIONAL LAW.—MacLeod, C. T.; MacMahon, H. K.; Ross, W. A.

## DEGREE EXAMINATIONS

Names in "Class I" and "Class II" are in Order of Merit. Names under heading "Passed" are in Alphabetical Order. The Asterisk indicates a High First Class. Brackets indicate candidates of equal merit.

## ELEMENTARY LATIN.

Class II.—Chenglop, Edward.

Passed.—Alum, H. A.; Holmes, G. R.; Lawley, J. H.; McCurdy, D. S.; MacDonald, Peier; MacLennan, C. F.; Martin, J. P.; Piers, Judith; Pullar, G. J.; Shreve, F. Violet.

## LATIN I.

Class I.—Malcolm, Florence; Nickerson, J. S.; Ross, Mary A.

Class II.—Creighton, Lois; Hall, Bessie; Pover, Mary L.

Passed.—Arthur, Edna; Bayne, Lily I.; Blanchard, H. H.; Bower, Donald; Churchill, E. Rachel; Craig, Jean; Duncan, T. C. Holland, Clyde; MacDonald, John; Macdonald, Roderic; MacLean, C. Myrtle; Marshall, D.; Mowat, Katherine; Paterson, J. G.; Rogers, W. M.; Ross, A. G.; Rutledge, J. E.; Scott, R. H.; Smith, C. G.; Smith, G. R.; Stairs, Gavin; Stewart, J. McK.; Young, G. D.

## LATIN 2.

Class I.—Crawford, E. H.; Harris, W. E.

Class II.—Creighton, Edith M.; Piper, C. D.; Rattee, N. M.

Passed.—Creelman, Emma K.; Daley, G. M.; Dawson, J. A.; Dawson, E. M.; Fox, F. B.; Geddes, W.; Gray, K. H.; Hall, Agnes F.; Hoar, D. W.; Hoben, Alma G.; Lawrence, L. L.; Leslie, R. J.; McInnes, C. M.; MacKenzie, C. G.; MacKenzie, Annie; L.; MacKinnon, M. C.; McLeod, G. D.; MacLeod, Annie; Metherall, Isabel M.; Patterson, R. A.; Porter, W. A.; Roche, C. J.; Salter, F. M.; Seaman, A. Stewart, Amy M.; Zinck, A. A.

## LATIN 3.

Class I.—Yeoman, R. F.; \*Bayer, Lillian B.; \*Billman, W. M.; Graham, F. D.; (Macdougall, Jessie L.; McGrath, Annie L.)  
Class II.—MacKay, N. E.; (Campbell, Jean P.; Steeves, Helen); Clayton, M. Louise.

Passed.—Brown, G. C.; Cunningham, Velma; Fraser, Katherine J.; Gilliatt, Esther; MacIver, A. P.; MacKay, C. A.; MacKinlay, Lois; McLeod, H. G.; MacMillan, Sadie.

## LATIN 5.

Class I.—\*Yeoman, R. F.; Billman, W. M.

Passed.—Mumford, Beatrice E.; Campbell, Jean P.

## LATIN 6.

Class I.—Billman, W. M.

## ELEMENTARY GREEK.

Class II.—Crawford, E. H.; Zinck, Annet, A.

Passed.—Fraser, J. M.; MacAskill, J.; Marshall, D.; Murray, George; Stewart, Army; Stewart, J. McK.; Tweedie, W. J. V.

## GREEK I.

Class I.—Paterson, J. G.

Passed.—Blanchard, H. H.; Brown, G. C.; Campbell, L. B.; Creighton, Lois; Evans, C. A.; Hall, Agnes F.; Malcolm, Florence; Metherall, Isabel; Smith, G. R.

## GREEK 2.

Passed.—Geddes, William; MacKenzie, C. G.; MacKinnon, M. C.; McLeod, G. D.; Patterson, R. A.; Rattee, N. M.; Roche, C. J.

## GREEK 3.

Class I.—\*Billman, W. M.; Bayer, Lillian B.; Graham, F. D.  
Class II.—MacQuarrie, W. A.; Macdougall, Jessie; MacKay, N. E.; Campbell, Jean P.

Passed.—Smith, H. A.

## GREEK 5.

Class I.—Billman, W. M.

Passed.—Mumford, Beatrice E.; Campbell, Jean P.

## GREEK 6.

Class I.—Billman, W. M.

## FRENCH I.

Class I.—Rutledge, J. E.

Class II.—Pover, Mary L.; Bayne, Lily I.

Passed.—Brookfield, G. P.; Campbell, Katherine; Creighton, J. J.; Dwyer, Gerald; Fraser, J. S.; Gillies, Emma; Gray, K. H.; Holland, Clyde; Kemp, H. D.; McCabe, J. M. S.; Macdonald, R. C.; Macdonald, S. W. M.; MacMillan, M. J.; Marshall, David; Martin, J. P.; Mowat, Katherine; Piers, Judith; Rogers, William M.; Ross, A. G.; Ross, Mary A.; Shreve, Violet; Stairs, Gavin L.; Stewart, Evelyn J.; Young, G. D.

## FRENCH 3.

Class I.—(McInnes, C. M.; Piper, C. D.); Hoben, Alma G.; (Harris, W. E.; Henderson, G. H.)

Class II.—(Creighton, Edith; Dawson, J. A.); Creelman, Emma; Hoar, D. W.

Passed.—Arthur, Edna; Bower, Donald; Campbell, G. H.; Colquhoun, Catherine; Dawson, E. McG.; Grant, W. A.; Macdonald, John; MacKay, Mable; MacLean, C. Myrtle; MacLeod, Annie M.; Nelson, W. M.; Salter, F. M.; Seaman, A.; Stairs, Graham.

## FRENCH 4.

Class I.—Yeoman, R. F.; Macdougall, Jessie; Crawford, E. H.  
Class II.—Nelson, Eda; Cunningham, Velma.

Passed.—Ackhurst, E. V.; Allen, Kathleen; Carson, J. B.; Campbell, L. B.; Dickie, J. B.; Fraser, Katherine; MacIntosh, Mabel I.; MacKinlay, Lois; Umlah, Annie L. B.; Ross, Agnes S.

## ELEMENTARY GERMAN.

Passed.—(Vickery, H. B.; Zinck, A. A.); Brookfield, G. P.; Johnston, M. F.; Whitman, P. L.

## GERMAN I.

Class I.—Steeves, Helen.

Class II.—Hall, Bessie L.; Stewart, Amy.

*Passed*.—Bayer, Lillian; Carson, J. B.; Noble, C. O.; Salter, F. M.; Stewart, Evelyn.

## GERMAN 2.

*Class I*.—Steeves, Helen.

*Passed*.—Carson, J. B.; Churchill, E. Rachel; Cunningham, Velma; Daley, G. M.; Floyd, G. D.; Fraser, W.; McIntosh, Mabel L.; Mackay, C. A.; MacKenzie, Emelyn; MacNeily, W. H.; Nelson, Eda.

## ENGLISH 1.

*Class I*.—Hall, Beadie L.; Stewart, Amy; Fraser, J. M.

*Class II*.—McInnes, Anna J.; Phinney, R. C.

*Passed*.—Bayne, Lily L.; Blakely, C. P.; Book, Harriet; Brookfield, G. P.; Connely, Jean A.; Creighton, Lois; Duncan, J. C.; Guildford, Mary; Holland C.; Inglis, Constance; Kane, Helen; Lantz, F. C.; Lawley, J. H.; Macdonald, N. E.; Macdonald, R. C.; McLatchy, E. B.; MacGregor, C. F.; McLeod, J. K.; Malcolm, Florence; Martin, J. P.; Mowat, Katherine; O'Riyan, Hilda; Pallen, W.; Piers, Judith; Power, Mary; Rieley, C. A.; Rogers, W. M.; Ross, A. G.; Ross, Mary; Scott, R. H.; Shreve, Violet; Stairs, G. L.; Whillans, Florence.

## ENGLISH 2.

*Class I*.—Dawson, J. A.; Piper, C. D.; Seaman, A. Macdonald, S. W. M.; Crawford, E. H.

*Class II*.—Dawson, R. M.; McInnes, C. M.; Arthur, Edna; Fox, F. B.; Young, G. D.; Rattos, N. M.; Vickery, H. V.

*Passed*.—Bennett, C. N.; Bishop, Evelyn; Blanchard, H. H.; Bower, D.; Campbell, G. H.; Chisholm, W. H.; Craig, Jean; Creelma, Emma; Creighton, Edith; Crowe, W. P.; Daley, G. M.; Doane, W. E.; Dwyer, G.; Farley, S.; Fraser, J. S.; Fultz, F. D.; Geddes, W.; Gillies, Emma; Gray, K. H.; Hall, A. F.; Hanright, F. R.; Harris, W. E.; Hawkins, R. C. G.; Hoar, D. W.; Hoban, Alma G.; Lawrence, L. L.; Leslie, R. J.; MacAloney, R. G.; MacAskill, J.; McCurdy, E. G.; Macdonald, J.; Macdonald, J. M.; MacKay Mable; MacKenzie, C. G.; MacKinnon, M. C.; MacLean, Myrtle; MacLennan, A. G.; MacLeod, Annie; MacLeod, D. C.; MacLeod, G. D.; MacMillan, M. J.; MacNeily, W. H.; Marshall, D.; Matheson, H. A.; Methersall, Isabel; Moore, E. H.; Moore, B. C.; Morrison, D. J.; Murray, G. A.; Pearman, L. G.; Porter, W. A.; Paterson, J. G.; Patterson, R. A.; Peerman, L. G.; Porter, W. A.; Rayner, H. S.; Roche, C. J.; Ross, Frances; Rutledge, J. E.; Salter, F. M.; Smith, C. G.; Smith, G. R.; Stairs, Graham; Stewart, Evelyn; Stewart, J. McK.; Strickland, I. C.; Tweedie, W. J. V.; Zwicker, F. H.

## ENGLISH 3.

*Class I*.—Nelson, Eda; Smith, H. A.

*Class II*.—McGrath, Annie; MacKenzie, Emelyn; (Macdonald, Janet; Umlah, Annie, I. B.)

*Passed*.—Auld, W. R.; Campbell, L. B.; Churchill, E. Rachel; Colquhoun, Lillian; Cornelius, J. R.; Currie, M. Maud; Guildford, D. A.; Irvine, W. S.; McInnes, C. M.; MacMillan, Sadie; Munnie, Dorothy K.; Nickerson, J. S.; Nicoll, Margaret W.

## ENGLISH 4.

*Class I*.—Nickerson, J. S.

*Class II*.—Allen, Kathleen; Macdonald, Janet.

*Passed*.—Aekhurst, E. V.; Auld, W. R.; Billman, W. M.; Campbell, Jean P.; Campbell, L. B.; Clement, R. A.; Crowe, Clara; Cunningham, Velma; Currie, M. Maud; Dickie, J. B.; Gilliat Esther; Guildford, D. A.; Irvine, W. S.; Kirk, O. H.; Macdonald, Jessie; MacGregor, Jean; McIntosh, Mabel; MacIver, A. P.; MacKinslay, Lois; McLean, A. L.; Macleod, C. T.; MacLeod, MacIntosh; Nelson Eda; Reid, N. G.; Ross, Agnes S.; Ross, Frances; Salter, B. C.; Sibley, Gladys; Sutherland, C. G.; Swanson, J. K.; Umlah, Annie L. B.; Yeoman, A. R.

## BIBLICAL LITERATURE.

*Class II*.—Paterson, J. G.; Nickerson, J. S.; Mackay, C. A.; Bower, Donald; MacLennan, A. G.

*Passed*.—Allen, Kathleen; Blanchard, H. H.; Churchill, E. Rachel; Cornelius, J. R.; Creelma, Emma; Duness, T. C.; Evans, C. A.; Fraser, J. M.; Guildford, D. A.; Hoban, Alma; Irving, W. S.; Kirk, O. H.; McCurdy, E. G.; MacGregor, Jean; MacLennan, Anna J.; McIntosh, Mabel; MacKay, W. K.; McLean, A. L.; Smith Marion; Patterson, R. A.; Reid, N. G.; Rieley, C. A.; Salter, B. C.

## HISTORY 1.

*Class I*.—McGrath, Annie.

*Class II*.—Macdonald, Jessie.

*Passed*.—Brown, G. C.; Craig, Jean; Crowe, Clara; Currie, M. Maud; Dickie, J. B.; Evans, Cyril; Ferguson, M.; Fraser, J. M.; Fraser, W. L.; Gilliat, Esther; Heffer, F. A.; Henry Jean; McCurdy, E. Grant; MacGregor, Jean M.; MacLean, C. Myrtle; MacLeod, D. C.; McLeod, H. G.; MacMillan, Sadie; Morrison, Katie; Munnie, Dorothy K.; Nicoll, Margaret W.; Phinney, E. C.; Rogers, W. M.; Smith, G. R.

## HISTORY 2.

*Class I*.—MacKay, N. E.; \*Steeves, Helen; MacQuarrie, W. A.; Graham, F. D.

*Passed*.—Cornelius, J. R.; Crawford, E. H.; Crowe, Clara; Henry, Jean; Macdonald, Janet; Reid, N. G.; Murray, H. A.; Roche, C. J.; Ross, Agnes S.

## ECONOMICS 1.

*Class I*.—Mackay, C. A.

*Class II*.—McGrath, Annie L.

*Passed*.—Brown, G. C.; Carson, J. B.; Campbell, L. B.; Craig, Jean; Dwyer, G.; Floyd, G.; Fraser, W. L.; Fraser, J. S.; Gray, K. H.; Heffer, F. A.; Henderson, G. H.; Lawrence, L. L.; MacAulay, Peter; Macdonald, Janet; McLean, A. L.; Methersall, Isabel; Mowley, Frank; Phinney, E. C.; Ross, Frances; Smith, G. R.; Stewart, J. McK.; Sutherland, C. G.

## ECONOMICS 2.

*Class I*.—MacKay, N. E.

*Passed*.—Cornelius, J. R.; Guildford, D. A.; Henry, Jean; MacIver, A. P.; McKay, J. W.; MacKinslay, Lois; Macleod,

C. T.; MacLeod, MacIntosh; Munis, Dorothy K.; Reid, N. G.; Sibley, Gladys; Sutherland, C. G.

## ECONOMICS 3.

Class I.—Clayton, M. Louise.

Passed.—Crowe, Clara; Lewis, G. M.

## PHILOSOPHY 1.

Class I.—\*Mackay, C. A.; Paterson, J. G.; McGrath, Annie L.; Craig, Jean; McLeod, H. G.; McLeod, G. D.

Class II.—Lawrence, LeRoy L.; Dawson, J. A.; (Fox, F. B.; Seaman, A. S.); Piper, C. D.

Passed.—Arthur, Edna; Croelman, Emma; Daley, G. M.; Ferguson, Elizabeth; Fraser, J. S.; Grant, W. A.; Gray, S. H.; Hoben, Alma; MacAskill, J.; MacDonald, John; MacGregor, Jean; Melrose, C. M.; MacIver, A. P.; MacKay, Mable; MacKenzie, C. G.; MacKinnon, M. C.; MacLean, C. Myrtle; MacLennan, A. G.; Macleod, C. T.; MacLeod, MacIntosh; McNeilly, W. H.; Paterson, E. A.; Porter, Williamina; Rattee, N. M.; Raynor, H. S.; Ross, Frances G.; Salter, F. M.; Sibley, Gladys; Smith, Marion; Stewart, J. McK.; Yeoman, A. R.; Zinck, Austen A.

## PHILOSOPHY 5.

Class I.—(Clayton, E. R.; Smith, E. S.); Day, R. E.

## PHILOSOPHY 6.

Class I.—Clayton, E. R.

Class II.—Currie, M. Maud; Nickerson, J. S.; MacQuarrie, W. A.

Passed.—MacKay, W. K.; McLean, A. L.; MacMillan, Sadie; Salter, B. C.; Smith, H. A.

## PHILOSOPHY 7.

Class I.—MacQuarrie, W. A.

Class II.—Smith, E. S.; Smith, H. A.; Clayton, E. R.

Passed.—Nicoll, Margaret.

## MATHEMATICS 1.

Class I.—MacLennan, C. F.

Class II.—Hall, Bessie L.; Murray, Claude; Ross, Mary A.; Lawley, J. H.

Passed.—Bayne, Lily J.; Brookfield, G. P.; Campbell, G. H.; Churchill, E. Rachel; Croighton, Lois; Crowe, Clara; Cunningham, Velma; Currie, M. Maud; Daley, G. M.; Hawkins, E. C. G.; Holland, Clyde; Leslie, R. J.; McLennan, Anna J.; MacKay, Mable; MacLeod, Annie; Malcolm, Florence; Marshall, David; Martin, J. P.; Musgrave, W. B.; Nickerson, J. S.; Nicoll, Margaret; Piers, Judith; Power, Mary L.; Ross, A. G.; Sibley, Gladys; Stairs, Gavin.

## MATHEMATICS 3.

Class I.—Clayton, M. Louise; Harris, W. E.

Class II.—Bennet, C. N.; Vickery, H. R.

Passed.—Brown, G. C.; Chisholm, W. H.; Dawson, R. M.; Hanright, F. R.; MacMillan, M. J.; MacNeilly, W. H.; Moore, E. H.; Moore, R. C.; Noble, C. O.; Piper, C. D.; Smith, C. G.; Smith, G. R.; Strickland, L. C.

## MATHEMATICS 4.

Class I.—\*Clayton, M. Louise; \*Harris, W. E.; Gilliatt, Esther.

Passed.—Crowe, W. P.; Dawson, R. M.; MacArthur, J.; Macdonald, J. A.; Macdonald, J. W.; Vickery, H. B.

## MATHEMATICS 8.

Class I.—Henderson, G. H.; McLeod, H. G.; MacKenzie, Emelys.

## MECHANICS.

Class II.—MacKenzie, Emelys; Bennet, C. N.

Passed.—Blakley, C. P.; Chisholm, W. H.; Hanright, F. R.; MacMillan, M. J.; Moore, E. H.; Moore, R. C.; Noble, C. O.; Strickland, L. C.

## PHYSICS 1.

Class II.—Zinck, Austen A.

Passed.—Brown, G. C.; Macdonald, Janet; MacMillan, Sadie; Murray, George.

## PHYSICS 1A.

Class II.—MacKenzie, Emelys; Macdonald, J. A.

Passed.—Austen, K. J.; MacArthur, James; Macdonald, J. W.

## PHYSICS 1B.

Class I.—Vickery, H. B.; MacKay, N. E.

Class II.—Sutherland, C. G.

Passed.—Coulter, W. B.; Geddes, Wm.; Grant, W. A.; Matheson, H. A.; Seaman, A.; Smith, C. G.

## PHYSICS 5.

Class I.—Henderson, G. H.

## PHYSICS 6.

Class I.—Clayton, M. Louise.

Class II.—Macdonald, J. A.

Passed.—MacArthur, James.

## PHYSICS 8.

Class I.—Henderson, G. H.

## CHEMISTRY 1.

Class II.—Zinck, Austen A.

Passed.—Bower, Donald; Campbell, G. H.; Croelman, Emma; Hall, Bessie L.; Harris, W. E.; Henry, Jean; Leslie, R. J.; MacLeod, Annie M.; McLeod, J. C.; Marshall, David; Martin, J. P.; Menzies, Katherine; Murray, Claude; Rogers, W. M.; Ross, A. G.; Ross, Mary A.; Vestman, A. R.; Seaman, A.

## CHEMISTRY 1A.

Class I.—Vickery, H. B.; McLeod, H. G.; Moore, E. H.; Dawson, J. A.; Macdonald, J. H.; (Moore, R. C.; Strickland, L. C.; Gray, K. H.); Bennet, C. N.; MacLennan, C. F.

Class II.—Mahabir, K. J.; Roche, C. J.; Mowley, F.; (Hoar, D. W.; Noble, C. O.); Musgrave, W. B.; Stairs, Gavin; Halland, Clyde.

Passed.—Fultz, S. L.; Lawby, J. H.; Macaskill, W. R.; McGrath, W. N.; McLeod, J. K.; Matheson, H. A.; Mooney, R. B.

## CHEMISTRY 2.

Class I.—Vickery, H. R.  
Class II.—Lawrence, R. L.

## CHEMISTRY 3.

Passed.—Porter, W. A.

## CHEMISTRY 4.

Class II.—Floyd, G. D.; Macdonald, J. A.; Chisholm, W. H.; Macdonald, J. W.

Passed.—Carson, G. D.; Crowe, W. P.; Hanright, F. R.; MacIntosh, J. M.

## GEOLOGY 1.

Class I.—Mackay, C. A.; MacQuarrie, W. A.

Passed.—Arthur, Edna; Blanchard, H. H.; Clezen, R. A.; Cornelius, J. R.; Ferguson, Elizabeth; Gulliford, D. A.; MacIver, A. P.; Murray, Claude; Nelson, Eda; Ross, Agnes S.; St. Arnaud, Mrs.; Yeoman, A. R.; Yeoman, R. F.

## GEOLOGY 1A.

Class II.—MacMillan, M. J.; Bennet, C. N.; Mungrave, W. H.; Moore, E. H.; Moore, R. C.; Strickland, L. C.; (Crowe, W. P.; Macdonald, S. W. M.; Noble, C. O.).

Passed.—Chisholm, W. H.; Fultz, S. L.; MacAloney, R. G.; McLeod, J. K.; Pearman, L. G.

## GEOLOGY 2.

Passed.—Allen, Kathleen; Nicoll, Margaret W.

## BIOLOGY 1.

Class I.—Dawson, J. A.

Class II.—Steeves, Helen; Hoar, D. W.

Passed.—Crighton, Edith; Dickie, J. R.; Gilliat, Esther; Henry, Joan; Macaskill, W. R.; Macdonald, Janet; MacGregor, Jean; McInnes, Anna; MacKenzie, C. G.; MacKinlay, Lois; MacKinnon, M. C.; McLeod, G. D.; MacLeod, MacIntosh; Matheson, H. A.; Mowatt, Katherine; Nicoll, Margaret; Rattie, N. M.; Reid, N. G.; Smith, H. A.; Tweedie, W. J. V.

## BIOLOGY 2.

Passed.—Dwyer, Gerald; Morrison, Katie.

## PHYSIOLOGY 2.

Passed.—Matheson, H. A.; Morrison, Katie.

## DRAWING 1.

Class I.—Mungrave, W. R.; Bennet, C. N.

Class II.—Moore, R. C.; MacMillan, M. J.

Passed.—Fultz, S. L.; Henderson, G. H.; Macdonald, S. W. M.; McGrath, W. N.; Mooney, R. B.; Moore, E. H.; Noble, C. O.; Strickland, L. C.

## DRAWING 2.

Class I.—Bennet, C. N.

Class II.—Floyd, G. D.; Mungrave, W. R.; Blakley, C. P.; Moore, R. C.; Chisholm, W. H.

Passed.—Fultz, S. L.; Macdonald, S. W. M.; MacIntosh, J. M.; MacMillan, M. J.; Moore, E. H.; Noble, C. O.; Strickland, L. C.

## SURVEYING 1.

Class II.—Hanright, F. R.; Macdonald, J. A.

Passed.—Austin, K. J.; Macdonald, J. H.; Macdonald, J. W.

## GRAPHICAL STATICS.

Class II.—Floyd, G. D.

Passed.—MacArthur James W.

## KINEMATICS.

Passed.—MacArthur James W.

## MATERIALS.

Class II.—Floyd, G. D.; MacArthur, James W.

Passed.—Macdonald, J. A.



FACULTY OF LAW.  
DEGREE EXAMINATIONS

## CLASS LISTS.

Names in "Class I" and "Class II" are in Order of Merit  
Names under heading "Passed" are in Alphabetical  
Order. Names in brackets indicate Candidates  
of equal merit

## FIRST YEAR.

## CRIMES.

*Class I.*—Stewart, J. McG.; MacNutt, E. R.; Graham, F. D.; Hawkins, C. R.; (Swanson, J. K.; Ackhurst, E. V.; Kemp, H. D.); Baras, W. D.; (Ormond, L. E.; Pullar, G. J.)

*Class II.*—(Lewis, G. M.; Robichaud, L. P. A.); Nelson, W. M.; Macdonald, D. D.; Phinney, E. C.

*Passed.*—Archibald, M. B.; Barron, J. A.; Clemes, R. A.; Cockburn, G. H. I.; Cyr, A. J.; MacAulay, P.; MacMillan, J. A.; Murray, W. L.; Nicholson, J. H. T.; Pines, H. H.; Stairs, H. M.

## CONTRACTS.

*Class I.*—MacNutt, E. R.; Hawkins, C. R.; Archibald, M. B.; Barron, J. A.; Nelson, W. M.; Lewis, G. M.

*Class II.*—Yeoman, R. F.; MacAulay, P.; Clemes, R. A.; Kemp, H. D.; McLeod, H. G.; Cockburn, G. H. I.; Robichaud, L. P. A.; Cyr, A. J.

*Passed.*—Ackhurst, E. V.; MacMillan, J. A.; Murray, H. A.; Pullar, G. J.; Stairs, H. M.; Swanson, J. K.

## TORTS.

*Class I.*—Graham, F. D.; (Barron, J. A.; Ackhurst, E. V.); (MacNutt, E. R.; Ormond, L. E.); Swanson, J. K.; Lewis, G. M.; (Pines, H. H.; Nelson, W. M.)

*Class II.*—Hawkins, C. R.; Macdonald, D. D.; Clemes, R. A.; Robichaud, L. P. A.; Murray, W. L.; Baras, W. D.; (Nicholson, J. H. T.; Archibald, M. B.)

*Passed.*—Cockburn, G. H. I.; Cyr, A. J.; Kemp, H. D.; MacMillan, J. A.; Pullar, G. J.

## REAL PROPERTY.

*Class I.*—Ackhurst, E. V.; MacNutt, E. R.; Macdonald, D. D.; Ormond, L. E.; Pines, H. H.; Archibald, M. B.

*Class II.*—Kemp, H. D.; MacAulay, P.; Smith, V. R.; Young, G. DeW.; Robichaud, L. P. A.

*Passed.*—Baras, W. D.; Cockburn, G. H. I.; Creaghan, J. A.; Pullar, G. J.; Barron, J. A.

## WILLS.

*Class I.*—Stewart, J. McG.; Bradley, F. G.; Nelson, W. M.; MacNutt, E. R.; Archibald, M. B.; Macdonald, D. D.

*Class II.*—Stairs, J. C.; Barron, J. A.; Ackhurst, E. V.; Young, G. D.; Pines, H. H.; Ormond, L. E.

*Passed.*—Baras, W. D.; Cockburn, G. H. I.; Creaghan, J. A.; Curry, N. R.; Cyr, A. J.; Dares, R. S.; Graham, F. D.; Kemp, H. D.; MacMillan, J. A.; Murray, W. L.; Patterson, M. A.; Pullar, G. J.; Robichaud, L. P. A.; Seaman, A. M.; Smith, V. R.; Stairs, H. M.; Whinyard, L. S.

## CONSTITUTIONAL HISTORY.

*Class I.*—Barron, J. A.; MacNutt, E. R.; Archibald, M. B.; Lewis, G. M.

*Class II.*—Fraser, J. S.; (Phinney, E. C.; Rutledge, J. E.); Young, G. D.; Swanson, J. K.; Robichaud, L. P. A.

*Passed.*—Cockburn, G. H. I.; Cyr, A. J.; Daley, E. M.; MacAulay, P.; Pullar, G. J.

## SECOND YEAR.

## EQUITY.

*Class I.*—Stewart, J. McG.; MacPherson, M. A.; Pines, H. H.; Bradley, F. G.

*Class II.*—Dickson, J. B.; Vair, J. D.; Phinney, E. C.; Ross, W. A.; Maloney, C. M.; Mackay, A. T.; Stairs, J. C.

*Passed.*—Baras, W. D.; Black, C. G.; Creaghan, J. A.; Jones, O. B.; Long, G. F. H.; Macdonald, D. D.; Macdonald, J. W.; Michael, J. E.; Morse, H. C.; Murray, W. L.; Nelson, W. M.; Ormond, L. E.; Parker, E. T.; Patterson, M. A.; Roper, J. S.; Seaman, A. M.; Skinner, W. H.; Smith, V. R.; Whinyard, L. S.

## PARTNERSHIP.

*Class II.*—Ormond, L. E.; Pines, H. H.; (Creaghan, J. A.; Macdonald, D. D.); Nelson, W. M.

*Passed.*—Baras, W. D.; Bradley, F. G.; Curry, N. R.; Macdonald, J. W.; Murray, W. L.; Patterson, M. A.; Seaman, A. M.; Smith, V. R.; Stairs, J. C.; Whinyard, L. S.

## CONSTITUTIONAL LAW.

*Class I.*—Jones, O. B.; (Bradley, F. G.; Graham, F. D.)

*Class II.*—Pines, H. H.; Baras, W. D.

*Passed.*—Creaghan, J. A.; Macdonald, D. D.; Ormond, L. E.; Patterson, M. A.; Smith, V. R.; Whinyard, L. S.

## SHIPPING.

*Class I.*—Bradley, F. G.; Pines, H. H.; Macdonald, J. W.; Creaghan, J. A.; Nelson, W. M.

*Class II.*—(Ormond, L. E.; Smith, V. R.; Stairs, J. C.); Macdonald, D. D.; MacMillan, J. A.; Paterson, M. A.; Whinyard, L. S.

*Passed.*—Baras, W. D.; Curry, N. R.; Phinney, E. C.

## EVIDENCE.

*Class I.*—Stewart, J. McG.; Macdonald, J. W.; (Nelson, W. M.; Pines, H. H.); Jones, O. B.; Bradley, F. G.; Macdonald, D. D.; Ormond, L. E.; Seaman, A. M.

*Class II.*—(Patterson, M. A.; Ross, W. A.); Creaghan, J. A.; Stairs, J. C.; Baras, W. D.; (MacMillan, J. A.; Murray, W. L.); Smith, V. R.

*Passed.*—Curry, N. R.; Whinyard, L. S.

## INSURANCE.

*Class I.*—Jones, O. R.; Bradley, F. G.; (Nelson, W. M.; Ormsdell, L. E.; Patterson, M. A.; Whinyard, L. S.; Macdonald, J. W.); (Creaghan, J. A.; Pinoo, H. H.)

*Class II.*—(Murray, W. L.; Seaman, A. M.); (Ross, W. A.; Stairs, J. C.)

*Passed.*—Barss, W. D.; Curry, N. R.; Macdonald, D. D.; Smith, V. R.

## THIRD YEAR.

## INTERNATIONAL LAW.

*Class I.*—Stewart, J. McG.; (Jones, O. R.; Macdonald, J. W.); MacPherson, M. A.; Mackay, A. T.; Stairs, J. C.

*Class II.*—Black, C. G.; Vair, J. D.; Parker, E. T.; Maloney, C. M.; Dickson, J. E.

*Passed.*—Graham, F. D.; Long, G. F. H.; Michaud, J. E.; Morse, H. C.; Ross, W. A.; Skinner, W. H.

## CONFLICT OF LAWS.

*Class I.*—Ross, W. A.; (Dickson, J. B.; MacPherson, M. A.)

*Class II.*—Macdonald, J. W.; Michaud, J. E.; Mackay, A. T.; (Long, G. F. H.; Maloney, C. M.; Parker, E. T.); (Black, C. G.; Stairs, J. C.)

*Passed.*—Graham, E. D.; Jones, O. R.; Skinner, W. H.; Vair, J. D.

## SALES.

*Class I.*—Stewart, J. McG.; Jones, O. R.; MacPherson, M. A.; Vair, J. D.; Bradley, F. G.; Macdonald, J. W.

*Class II.*—Mackay, A. T.; Pinoo, H. H.; Michaud, J. E.; Macdonald, D. D.; Nelson, W. M.; Dickson, J. B.; Black, C. G.; Maloney, C. M.

*Passed.*—Barss, W. D.; Creaghan, J. A.; Long, G. F. H.; Morse, H. C.; Murray, W. L.; Ormsdell, L. E.; Parker, E. T.; Patterson, M. A.; Roper, J. S.; Ross, W. A.; Skinner, W. H.; Smith, V. R.; Stairs, J. C.; Whinyard, L. S.

## EVIDENCE.

*Class I.*—MacPherson, M. A.; Dickson, J. B.; Black, C. G.; (Mackay, A. T.; Vair, J. D.); Morse, H. C.; Parker, E. T.; Long, G. F. H.; (Michaud, J. E.; Roper, J. S.)

*Class II.*—(Maloney, C. M.; Skinner, W. H.); Graham, E. D.

## COMPANIES.

*Class I.*—Mackay, A. T.; Jones, O. R.; MacPherson, M. A.

*Class II.*—Dickson, J. B.; Parker, E. T.; Michaud, J. E.; Black, C. G.

*Passed.*—Graham, E. D.; Maloney, C. M.; Morse, H. C.; Ross, W. A.; Skinner, W. H.; Vair, J. D.

## FACULTY OF MEDICINE.

## GENERAL PASS LIST.

Names are in Alphabetical Order.

## FINAL PROFESSIONAL.

Barss, G. A.; Bethune, R. O.; Campbell, A. R.; Finlay, F. S.; Johnson, J. M.; MacKinnon, A. H.; Wilson, A. A. C.

## FOURTH PROFESSIONAL.

Campbell, A. R.; Dickie, W. R.; Doull, J. A.; Gass, C. L.; \*Johnson, J. M.; Little, F. R.; Mackasey, W. P.; McKeough, W. T.; MacLean, Jenn A.; Mecton, L. M.; Reid, J. R.; Tait, H. S.; Tompkins, M. G.; Wiswell, G. B.

## THIRD PROFESSIONAL.

Blackett, A. E.; Bress, J. S.; Chisholm, S. J.; Davidson, V. D.; Densmore, J. T.; Gittleson, F. M.; Godfrey, H. M.; Graham, J. V.; Heal, J. G. F.; Kilpatrick, Eliza; LeBlanc, J. E.; \*Little, F. R.; Meech, L. R.; \*Wiswell, G. B.; Withrow, R. R.

## SECOND PROFESSIONAL.

Currie, J. A.; Dwyer, T. R.; Godfrey, A. T.; Hines, Arthur; Kirkpatrick, H. W.; \*Moore, H. S.; Stoddard, E. H.; \*Withrow, R. R.; Whitehouse, S.; \*Wiswell, G. B.

## FIRST PROFESSIONAL.

Bernard, S. D.; Blair, E. M.; Campbell, J. G. D.; Coulter, W. R.; \*Currie, J. A.; Davies, J. A.; Fuller, C. K.; \*Keith, C. H.; \*Kirkpatrick, H. W.; Lindsay, R. D.; \*Lyons, J. N.; Mahabir, K. G.; \*Moore, H. S.; \*McCurly, D. S.; McDonald, W. M.; McGrath, J. P.; McLaren, P. D.; Parker, V. H. T.; Sieniewicz, T.; Sutherland, C. G.; Turel, S. J.; Weir, A. F.; \*Whitehouse, Samuel; \*Withrow, R. R.; Zwicker, D. W. N.

## SUPPLEMENTARY EXAMINATIONS.

ANATOMY I.—Grant, W. A.; Pennington, Louise A.; Withrow, R. R.

BIOLOGY 1.—Lyons, J. N.; Whitehouse, S.

CHEMISTRY III.—Pennington, Louise A.

PHYSICS III.—Currie, J. A.; Kirkpatrick, H. W.; Moore, H. S.

HISTOLOGY.—Hall, R. S.; Herman, G. E.; Keith, C. H.; Lyons, J. N.; Pennington, Louise A.

CHEMISTRY 3.—Moore, H. S.; Withrow, R. E.

PHYSIOLOGY.—Wiswell, G. B.

PATROLOGY.—Little, F. R.

OBSTETRICS 1.—Johnson, J. M.

## CLASS LISTS.

Names under heading "Distinction" are in Order of Merit under "Passed" in Alphabetical Order. Brackets indicate Candidates of Equal Merit.

## FIRST YEAR.

## ANATOMY I.

*Distinction*.—McLarren, P. D.; Campbell, J. G. D.

*Passed*.—Archibald, H. R.; Bernard, S. D.; Blair, E. M.; Coulter, W. R.; Davies, J. A.; Fuller, C. K.; Lindsay, R. D.; Mahabir, K. G.; McCurdy, D. S.; McDonald, W. M.; McGrath, J. P.; Parker, V. H. T.; Sieniewicz, T.; Sutherland, C. G.; Turel, S. J.; Weir, A. F.; Zwicker, D. W. N.

## BIOLOGY I.

*Distinction*.—McLarren, P. D.

*Passed*.—Anderson, J. W.; Bernard, S. D.; Campbell, J. G. D.; Fuller, C. K.; Matheson, Florence E.; McDonald, W. M.; McGrath, J. P.; Mahabir, K. G.; Parker, V. H. T.; Sieniewicz, T.; Turel, S. J.; Weir, A. F.; Zwicker, D. W. N.

## CHEMISTRY I B.

*Distinction*.—McDonald, W. M.; Weir, A. F.

*Passed*.—Anderson, J. W.; Bernard, S. D.; Britton, H. E.; Matheson, Florence E.; McGrath, J. P.; Parker, V. H. T.; Turel, S. J.; Zwicker, D. W. N.

## PHYSICS I.

*Distinction*.—Sutherland, C. G.; Campbell, J. G. D.

*Passed*.—Anderson, J. W.; Bernard, S. D.; Blair, E. M.; Britton, H. E.; Coulter, W. R.; Lindsay, R. D.; McCurdy, D. S.; McDonald, W. M.; McGrath, J. P.; Mahabir, K. G.; Parker, V. H. T.; Sieniewicz, T.; Sutherland, C. G.; Turel, S. J.; Weir, A. F.; Zwicker, D. W. N.

## HISTOLOGY.

*Distinction*.—McLarren, P. D.; Campbell, J. G. D.; Fuller, C. K.; Davies, J. A.

*Passed*.—Anderson, J. W.; Bernard, S. D.; Blair, E. M.; Britton, H. E.; Coulter, W. R.; Lindsay, R. D.; McCurdy, D. S.; McDonald, W. M.; McGrath, J. P.; Mahabir, K. G.; Parker, V. H. T.; Sieniewicz, T.; Sutherland, C. G.; Turel, S. J.; Weir, A. F.; Zwicker, D. W. M.

## SECOND YEAR.

## ANATOMY 2.

*Distinction*.—Hines, Arthur; Kirkpatrick, H. W.

*Passed*.—Currie, J. A.; Dwyer, T. R.; Godfrey, A. T.; Grant, W. A.; Pennington, Louise A.; Stoddard, R. H.; Whitehouse, Samuel.

## CHEMISTRY 3.

*Passed*.—Currie, J. A.; Dwyer, T. R.; Godfrey, A. T.; Hines, Arthur; Kirkpatrick, H. W.; Pennington, Louise A.; Stoddard, R. H.; Whitehouse, Samuel.

## PHYSIOLOGY.

*Distinction*.—Hines, Arthur.

*Passed*.—Blackadar, E. K.; Currie, J. A.; Dwyer, T. R.; Godfrey, A. T.; Kirkpatrick, H. W.; McCurdy, D. S.; McLellan, F. F.; Pennington, Louise A.; Stoddard, R. H.; Whitehouse, Samuel.

## THIRD YEAR.

## MATERIA MEDICA.

*Distinction*.—Davidson, V. D.; Graham, J. V.

*Passed*.—Blackett, A. E.; Breen, J. S.; Chisholm, S. J.; Denamore, F. T.; Gittleson, P. M.; Godfrey, H. M.; Heal, J. G. F.; Kilpatrick, Eliza; LeBlanc, J. E.; Meech, L. R.; Withrow, L. R.; Withrow, R. R.

## PATHOLOGY.

*Distinction*.—(Godfrey, H. M.; Graham, J. V.)

*Passed*.—Blackett, A. E.; Breen, J. S.; Chisholm, S. J.; Davidson, V. D.; Denamore, F. T.; Gittleson, P. M.; Heal, J. G. F.; Kilpatrick, Eliza; LeBlanc, J. E.; Meech, L. R.; Withrow, R. R.

## SURGERY I.

*Distinction*.—Graham, J. V.

*Passed*.—Blackett, A. E.; Breen, J. S.; Chisholm, S. J.; Davidson, V. D.; Denamore, F. T.; Gittleson, P. M.; Godfrey, H. M.; Heal, J. G. F.; Kilpatrick, Eliza; LeBlanc, J. E.; Meech, L. R.; Moore, H. S.; Withrow, R. R.

## MEDICINE I.

*Distinction*.—Heal, J. G. F.; Kilpatrick, Eliza.

*Passed*.—Blackett, A. E.; Breen, J. S.; Chisholm, S. J.; Davidson, V. D.; Denamore, F. T.; Graham, J. V.; Gittleson, P. M.; Godfrey, H. M.; LeBlanc, J. E.; Meech, L. R.; Moore, H. S.; Withrow, R. R.

## OBSTETRICS I.

*Distinction*.—Graham, J. V.; (Davidson, V. D.; Kilpatrick Eliza.)

*Passed*.—Blackett, A. E.; Breen, J. S.; Chisholm, S. J.; Denamore, F. T.; Gittleson, P. M.; Godfrey, H. M.; Heal, J. G. F.; LeBlanc, J. E.; Meech, L. R.; Moore, H. S.; Withrow, R. R.

## FOURTH YEAR.

## SURGERY 2.

*Distinction*.—McKeough, W. T.; Tompkins, M. G.

*Passed*.—Dickie, W. R.; Donll, J. A.; Gass, G. L.; Little, F. R.; MacKenzie, S. G.; McKeough, W. T.; MacLean, Jean A.; Morton, Morton, I. M.; Reid, J. B.; Tait, H. S.; Wiswell, G. B.

## MEDICINE 2.

*Distinction*.—Tompkins, M. G.

*Passed*.—Dickie, W. R.; Donll, J. A.; Gass, C. L.; Little, F. R.; Mackasey, W. F.; MacKenzie, S. G.; McKeough, W. T.; MacLean, Jean A.; Morton, I. M.; Reid, J. B.; Tait, H. S.; Wiswell, G. B.

## OBSTETRICS 2.

*Distinction*.—Doull, J. A.; MacLean, Jean A.; Gass, C. L.

*Passed*.—Dickie, W. R.; Little, F. R.; Mackasey, W. P.; MacKenzie, S. G.; McKeough, W. T.; MacLean, Jean A.; Morton, L. M.; Reid, J. B.; Tall, H. S.; Tompkins, M. G.; Wiswell, G. B.

## MEDICAL JURISPRUDENCE.

*Distinction*.—Doull, J. A.; MacLean, Jean A.; Gass, C. L.

*Passed*.—Campbell, A. R.; Dickie, W. R.; Little, F. R.; Mackasey, W. P.; Morton, L. M.; MacKenzie, S. G.; McKeough, W. T.; Reid, J. B.; Tall, H. S.; Tompkins, M. G.; Wiswell, G. B.

## HYGIENE.

*Distinction*.—Morton, L. M.; Gass, C. L.

*Passed*.—Dickie, W. R.; Doull, J. A.; Little, F. R.; Mackasey, W. P.; McKeough, W. T.; MacLean, Jean A.; Reid, J. B.; Tall, H. S.; Tompkins, M. G.; Wiswell, G. B.

## FINAL EXAMINATION.

## SURGERY AND SURGICAL ANATOMY.

*Passed*.—Barss, G. A.; Bethune, R. O.; Campbell, A. R.; Finlay, F. S.; Johnson, J. M.; MacKinnon, A. H.; MacNeil, Daniel; Wilson, A. A. C.

## CLINICAL SURGERY.

*Passed*.—Barss, G. A.; Bethune, R. O.; Campbell, A. R.; Finlay, F. S.; Johnson, J. M.; MacKinnon, A. H.; MacNeil, Daniel; Wilson, A. A. C.

## MEDICINE.

*Passed*.—Barss, G. A.; Bethune, R. O.; Campbell, A. R.; Finlay, F. S.; Johnson, J. M.; MacKinnon, A. H.; Wilson, A. A. C.

## CLINICAL MEDICINE.

*Distinction*.—Barss, G. A.; MacKinnon, A. H.; Bethune, R. O.; Campbell, A. R.; Johnson, J. M.

*Passed*.—Finlay, F. S.; MacNeil, Daniel; Wilson, A. A. C.

## OBSTETRICS AND DISEASES OF WOMEN AND CHILDREN.

*Distinction*.—Wilson, A. A. C.

*Passed*.—Barss, G. A.; Bethune, R. O.; Campbell, A. R.; Finlay, F. S.; Johnson, J. M.; MacKinnon, A. H.; MacNeil, Daniel.

## HYGIENE AND THERAPEUTICS.

*Distinction*.—Wilson, A. A. C.

*Passed*.—Barss, G. A.; Bethune, R. O.; Campbell, A. R.; Finlay, F. S.; Johnson, J. M.; MacKinnon, A. H.; MacNeil, Daniel.

## FACULTY OF DENTISTRY

## DEGREE EXAMINATIONS

Names under heading "Distinction" are in order of merit; under heading "Passed" in alphabetical order. Brackets indicate candidates of equal merit.

## FOURTH YEAR.

## CROWN AND BRIDGE WORK, CERAMICS AND HYGIENE.

*Distinction*—Hopper, A. D.

## HISTORY, ETHICS AND JURISPRUDENCE.

*Distinction*—Hopper, A. D.

## OPERATIVE DENTISTRY.

*Passed*—Hopper, A. D.

## ORTHODONTIA.

*Passed*—Hopper, A. D.

## PROSTHETIC DENTISTRY.

*Distinction*—Hopper, A. D.

## SURGERY AND ANAESTHETICS.

*Distinction*—Hopper, A. D.

## THIRD YEAR.

## CROWN AND BRIDGE WORK AND CERAMICS.

*Distinction*—Parker, C. W.; Chisholm, G. P.; Cowan, C. H.

*Passed*—Daniel, H. L.

## ORTHODONTIA.

*Passed*—Chisholm, G. P.; Cowan, C. H.; Daniel, H. L.; Parker, C. W.

## OPERATIVE DENTISTRY.

*Passed*—Chisholm, G. P.; Cowan, C. H.; Daniel, H. L.; Parker, C. W.

## PATHOLOGY AND BACTERIOLOGY.

*Passed*—Chisholm, G. P.; Parker, C. W.

## ORAL PATHOLOGY AND THERAPEUTICS.

*Distinction*—Parker, C. W.; Cowan, C. H.

*Passed*—Chisholm, G. P.; Daniel, H. L.

## MATERIA MEDICA.

*Passed*—Chisholm, G. P.; Parker, C. W.

## PROSTHETIC DENTISTRY.

*Distinction*—Chisholm, G. P.; Parker, C. W.; Cowan, C. H.; Daniel, H. L.

## METALLURGY.

*Distinction*—Chisholm, G. P.; Parker, C. W.; Cowan, C. H.;  
Hopper, A. D.

*Passed*—Daniel, H. L.

## SECOND YEAR.

## ANATOMY.

*Passed*—McLellan, F. F.; Nichols, M. P.

## CHEMISTRY 3

*Passed*—Cowan, C. H.; McLellan, F. F.; Nichols, M. P.;  
Woodbury, K. F.

*Supplementary, September, 1912*: Chisholm, G. P.; Hopper,  
A. D.

*Supplementary, November, 1912*: Burke, J. A.

## PHYSIOLOGY.

*Passed*—McLellan, F. F.; Nichols, M. P.; Woodbury, K. F.  
*Supplementary, September, 1912*: Chisholm, G. P.; Daniel,  
H. L.

## OPERATIVE DENTISTRY.

*Passed*—McLellan, F. F.; Nichols, M. P.; Woodbury, K. F.

## PROSTHETIC DENTISTRY.

*Passed*—McLellan, F. F.; Nichols, M. P.; Woodbury, K. F.

## FIRST YEAR.

## ANATOMY.

*Passed*—Fraser, E. W.; Richmond, G. B.

## CHEMISTRY 1B.

*Passed*—Richmond, G. B.

## HISTOLOGY.

*Passed*—Fraser, E. W.; Richmond, G. B.  
*Supplementary, April, 1913*: McLellan, F. F.

## OPERATIVE DENTISTRY.

*Passed*—Fraser, E. W.; Himmelman, H. B.; Richmond, G. B.

## PROSTHETIC DENTISTRY.

*Distinction*—Richmond, G. B.; Fraser, E. W.  
*Passed*—Himmelman, H. B.

## PHYSICS.

*Passed*—Fraser, E. W.; Richmond, G. B.  
*Supplementary, September, 1912*: Cowan, C. H.; Woodbury,  
K. F.

## STUDENTS, 1912-1913.

## FACULTY OF ARTS AND SCIENCE.

|  |                                       |
|--|---------------------------------------|
| Ackhurst, Ernest Victor .....          | Halifax.                              |
| Allen, Kathleen Emma .....             | Halifax.                              |
| Allum, Henry Arthur .....              | Halifax.                              |
| Arthur, Edna Maud .....                | Halifax.                              |
| Auld, Walter Richard .....             | Freetown, P. E. I.                    |
| Austen, Kenneth John .....             | N.E. Margara, Inv. Co.                |
| Bayer, Lillian Beatrice .....          | Rockingham, Hfx. Co.                  |
| Bayne, Lily Isabel .....               | Hillsboro, Inv. Co.                   |
| Beston, Alexander Hallburton .....     | Middleton, Ass. Co.                   |
| Bell, Annie Marjorie .....             | Halifax.                              |
| Bell, Constance .....                  | Halifax.                              |
| Bennett, Carl Norwood .....            | Halifax.                              |
| Billman, Walter Melville .....         | Halifax.                              |
| Bishop, Claude W. ....                 | Digby.                                |
| Bishop, Violet Evelyn .....            | New Minas, Kings Co.                  |
| Blakley, Cecil Pearson .....           | Halifax.                              |
| Blanchard, Henry Hubbard .....         | Ellershouse, Hants Co.                |
| Boak, Charlotte Phillis .....          | Halifax.                              |
| Boak, Harriet Matilda .....            | Halifax.                              |
| Bower, Donald MacGowan .....           | Shelburne.                            |
| Brookfield, George Piers .....         | Halifax.                              |
| Brown, Gordon Charles .....            | Halifax.                              |
| Campbell, George Henderson .....       | Halifax.                              |
| Campbell, Jean Pauline .....           | Halifax.                              |
| Campbell, Katherine Lillian .....      | Halifax.                              |
| Campbell, Lawrence Blair .....         | Halifax.                              |
| Carson, James Brittain .....           | Dartmouth.                            |
| Chambers, Gwladys Marian .....         | Truro, Col. Co.                       |
| Charman, Roy Edward .....              | Wallace, Cumb. Co.                    |
| Chipman, Reginald H. ....              | Grand Pre, Kings Co.                  |
| Chisholm, William Harold .....         | Halifax.                              |
| Chonglop, Edward .....                 | Sauquo Grande, Trin-<br>dad, B. W. I. |
| Churchill, Ellen Rachel .....          | Wainuta, Oahu, Sand-<br>wich Islands. |
| Clayton, Edward Reginald .....         | Halifax.                              |
| Clayton, Mary Louise .....             | Halifax.                              |
| Clemen, Rudolf Alexander Leopold ..... | Halifax.                              |
| Colquhoun, Catherine Cameron .....     | Halifax.                              |
| Colquhoun, Lillian Williamina .....    | Halifax.                              |
| Connely, Jean Alzuma .....             | Gt. Salmon River, N. B.               |
| Cornelius, Julius Robert .....         | Halifax.                              |
| Coulter, William Buxty .....           | Wallace Sta., Cumb. Co.               |
| Craig, Jean .....                      | Tatamagouche, Col. Co.                |
| Crawford, Edward Hugh .....            | St. John's, Nfld.                     |
| Croftman, Emma Kathleen .....          | Truro, Col. Co.                       |
| Creighton, Edith Murray .....          | Halifax.                              |
| Creighton, John James .....            | Seed-barn Sta., Pla. Co.              |
| Creighton, Lois Sutherland .....       | Halifax.                              |
| Crowe, Clara Alice .....               | Lower Truro, Col. Co.                 |
| Crowe, Waldo Perley .....              | Halifax.                              |
| Cunningham, Velma Purves .....         | Antigonish.                           |
| Currie, Mary Maud .....                | Tatamagouche, Col. Co.                |

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|--|----------------------------|
| Daley, Gordon McLaren                  | Halifax.                   |
| Dawson, James Arthur                   | McLellan's Brook, Pic. Co. |
| Dawson, Robert MacGregor               | Bridgewater, Lun. Co.      |
| Day, Robert Earle                      | St. John, N. B.            |
| Dickie, John Barrie                    | Truro, Col. Co.            |
| Doane, William Edward Everett          | Halifax.                   |
| Donovan, James Albartie                | Halifax.                   |
| Drury, David                           | Dartmouth, N. S.           |
| Duncan, Thomas Carruthers              | Halifax.                   |
| Dwyer, Gerald                          | Halifax.                   |
| Embree, Alexander Gordon               | Wentworth Sta., Cumb. Co.  |
| Evans, Cyril Ansell                    | Halifax.                   |
| Farley, Samuel                         | Armagh, Ireland.           |
| Faulkner, Georgene Lillian LeMessurier | Halifax.                   |
| Ferguson, Elizabeth Catherine          | Lalorsal Mills, Col. Co.   |
| Ferguson, Malcolm                      | Caledonia Mines, C. B. Co. |
| Fleming, Harold Price                  | Moncton, N. B.             |
| Floyd, George David                    | Westville, Pic. Co.        |
| Fox, Frank Beribow                     | Valley, Col. Co.           |
| Fraser, Catherine Jean                 | Westville, Pic. Co.        |
| Fraser, James Macdonell                | Cushing, P. Q.             |
| Fraser, James Stanley                  | New Glasgow, Pic. Co.      |
| Fraser, Raymond Stewart                | Westville, Pic. Co.        |
| Fraser, Rebecca                        | Halifax.                   |
| Fraser, William Lawrence               | New Glasgow, Pic. Co.      |
| Freeman, Percy Wilson                  | Halifax.                   |
| Fultz, Stephen Lloyd                   | Halifax.                   |
| Geddes, William                        | Grindstone, Magd. Is.      |
| Gilliat, Mary Esther                   | Granville Cen., Ann. Co.   |
| Gilles, Emma Catherine                 | Glouce Bay, C. B. Co.      |
| Graham, Frank Dunstone                 | Halifax.                   |
| Grant, William Alexander               | West River, Pic. Co.       |
| Gray, Ethel Elizabeth                  | Sussex, N. B.              |
| Gray, Kenneth Herbert                  | Seaford, Pica. Co.         |
| Guildford, David Adams                 | Halifax.                   |
| Guildford, Mary Moir                   | Halifax.                   |
| Hall, Agnes Fulton                     | Halifax.                   |
| Hall, Bessie Louise                    | Bridgewater, Lun. Co.      |
| Harridge, Frederic Rice                | Halifax.                   |
| Harris, William Edwin                  | Pictou.                    |
| Hart, Ruth Vivian                      | Halifax.                   |
| Harvey, Naomi                          | Halifax.                   |
| Hawkins, Charles Robert                | Lomenburg.                 |
| Hawkins, Gertrude May                  | Halifax.                   |
| Hawkins, Rupert Clarence Giles         | Halifax.                   |
| Hayes, James Bertram, B. A. (M. A.)    | Halifax.                   |
| Heffer, Foster Almon                   | Halifax.                   |
| Henderson, George Hugh                 | Pictou.                    |
| Henry, Elizabeth Blanche               | River John, Pic. Co.       |
| Henry, Jean                            | River John, Pic. Co.       |
| Hoar, Daniel William                   | East Mountain, Col. Co.    |
| Hoben, Alma Grace                      | Halifax.                   |
| Holland, Clyde Wallace                 | Halifax.                   |
| Holmes, George Raymond                 | Hamilton, Bermuda.         |

|                                    |                                  |
|------------------------------------|----------------------------------|
| Inglis, Constance                  | Halifax.                         |
| Irvine, William Stephenson         | St. John, N. B.                  |
| Irving, William Sowerby            | Shubensside, Hants Co.           |
| James, Alan Mackenzie              | Halifax.                         |
| Johnston, Murray Fraser            | Sydney, C. B. Co.                |
| Kane, Helen England                | Halifax.                         |
| Kemp, Hector Downie                | St. Peter's, Rich. Co.           |
| Kewick, Robert McLaren             | Burtonche, N. B.                 |
| Kirk, Oscar Howe                   | Dalhousie, N. B.                 |
| Lantz, Floyd Crawford              | Halifax.                         |
| Lantz, Norah Gladys, B. A.         | Halifax.                         |
| Lawley, James Herman               | North Sydney, C. B. Co.          |
| Lawrence, LeRoy Leitchfield        | Hantsport, Hants Co.             |
| Leslie, Robert Jamieson            | Halifax.                         |
| Lewis, George Murray               | Yarmouth.                        |
| Logan, Alice Jean                  | Halifax.                         |
| MacAloney, Jessie                  | Fairview, Halifax Co.            |
| MacAloney, Ralph Gordon            | Fairview, Halifax Co.            |
| MacArthur, James William           | New Glasgow, Pic. Co.            |
| MacAskill, John                    | Indian Brook, Vic. Co.           |
| MacAskill, William Ross            | Baddeck, Vic. Co.                |
| MacAnlay, Peter                    | Big Baddeck, Vic. Co.            |
| MacCabe, John Maxwell Skinner      | Darham, Pictou Co.               |
| McCurdy, Edward Grant              | Middle Musquodoboit, Halifax Co. |
| Macdonald, Angus Alexander         | Louisburg, C. B. Co.             |
| Macdonald, James William           | Greenhill, Pictou Co.            |
| Macdonald, Janet Sutherland        | Sherbrooke, Gtys. Co.            |
| Macdonald, John                    | Ross Ferry, Vic. Co.             |
| Macdonald, John Angus              | Sherbrooke, Gtys. Co.            |
| Macdonald, John Herbert            | Sydney Mines, C. B. Co.          |
| Macdonald, Neil Ewan               | Framboise, Rich. Co.             |
| Macdonald, Peter                   | Marion Bridge, C. B. Co.         |
| Macdonald, Roderick Churchill      | Halifax.                         |
| Macdonald, Stanley Walter Matheson | Baddeck, Vic. Co.                |
| Macdonald, Stewart Gordon          | Sydney.                          |
| Macdonnell, Jessie Laurence        | Parrsboro Cumb. Co.              |
| McGrath, Annie Laura               | Tignish, P. E. I.                |
| McGrath, Walter Neville            | Tusket, Yax. Co.                 |
| MacGregor, Jean Margaret           | New Glasgow, Pic. Co.            |
| Melnes, Anna Jane                  | Lyon's Brook, Pic. Co.           |
| Meines, Charles Malcolm            | Calgary, Alberta.                |
| MacIntosh, James MacGregor         | West River, Pic. Co.             |
| MacIntosh, Jennie Stewart          | West River, Pic. Co.             |
| MacIntosh, Mabel Irene             | Souris, P. E. I.                 |
| MacIver, Arthur                    | Port Bevis, Vic. Co.             |
| MacKay, Charles Alexander          | Truro, Col. Co.                  |
| McKay, Joseph William              | Truro, Col. Co.                  |
| MacKay, Mabel Catherine            | Pictou.                          |
| MacKay, Norman Ericsson            | Halifax.                         |
| MacKay, William Kemp               | Kempt Head, Vic. Co.             |
| MacKenzie, Charles Gay             | Charlottetown, P. E. I.          |
| MacKenzie, Emelya Laura            | Lower Mill, River, Vic. Co.      |
| MacKinlay, Lois Christine          | Charlottetown, P. E. I.          |
| MacKinnon, Murdoch Charles         | Casco Cove, P. E. I.             |
| McLatchy, Edward Bernard           | Campbellton, N. B.               |
| McLean, Alexander Leslie           | Thorburn, Pictou Co.             |

|                                  |                                   |
|----------------------------------|-----------------------------------|
| MacLean, Christina Myrtle        | Thornburn, Pictou Co.             |
| MacLennan, Alexander Gordon      | Sydney, C. B. Co.                 |
| MacLennan, Charles Frederick     | Sydney, C. B. Co.                 |
| MacLennan, Kenneth John          | Grand River, Rich. Co.            |
| MacLeod, Annie May               | Pictou.                           |
| Macleod, Charles Tupper          | New Haven, Vie. Co.               |
| MacLeod, Dan Campbell            | New Waterford, C. B. Co.          |
| MacLeod, George Daniel           | Oyster Bed Bridge, P. E. I.       |
| MacLeod, Hugh Gordon             | Greenhill, Pictou Co.             |
| MacLeod, John Alexander          | Hiramers, Alberta.                |
| MacLeod, John Charles            | Point Tupper, Rich. Co.           |
| MacLeod, John Kenneth            | Sydney Mines, C. B. Co.           |
| MacLeod, Macintosh               | Baldock, Vie. Co.                 |
| MacMillan, George Wierwell       | Pictou.                           |
| MacMillan, John Angus            | E. Lake Ainslie, Inv. Co.         |
| MacMillan, Malcolm James         | Marion Bridge, C. B. Co.          |
| MacMillan, Sadie Nell            | Sydney, C. B. Co.                 |
| MacNeily, William Henry          | McNeilly's, Ann. Co.              |
| MacQuarrie, Waldron Abbott       | Hampton, P. E. I.                 |
| Malesin, Florence Pearl          | Halifax.                          |
| Marshall, David Fraser           | New Glasgow, Pic. Co.             |
| Martin, John Patrick             | Dartmouth.                        |
| Matheson, Henry Angus            | Tatamagouche, Col. Co.            |
| Matheson, Isabel Marjorie        | West Cape, P. E. I.               |
| Miles, Everard Hall              | Cook's Brook, Hfx. Co.            |
| Moir, Elizabeth Putnam           | Halifax.                          |
| Mossey, Benel Burdett            | Stellarton, Pic. Co.              |
| Moore, Ernest Hastings           | Sydney, C. B. Co.                 |
| Moore, Rowland Chapman           | Halifax.                          |
| Morrison, Donald John            | Francoise, Rich. Co.              |
| Morrison, Kate                   | Dartmouth.                        |
| Mossley, Frank Harold            | Dartmouth.                        |
| Movatt, Katharine Stewart        | Pictou.                           |
| Mumford, Beatrice Eugenie, B. A. | Dartmouth.                        |
| Munnis, Dorothy Knaut            | Halifax.                          |
| Munro, Edna Margaret             | West River, Pic. Co.              |
| Murray Claude                    | Malou, Inv. Co.                   |
| Murray, George                   | W. Branch, River John, Pictou Co. |
| Murray, Hugh Allan               | Halifax.                          |
| Musgrave, William Burthorne      | Halifax.                          |
| Nelson, Eda Maude                | Truro, Col. Co.                   |
| Nelson, William McCully          | Tatamagouche, Col. Co.            |
| Nicholson, John                  | Halifax.                          |
| Nickerson, James Stanley         | Shelburne.                        |
| Nicoll, Margaret Woodland        | Halifax.                          |
| Noble, Clarke Osborne            | Brooklyne, N. Y.                  |
| O'Bryan, Elsie                   | Halifax.                          |
| Pallen, Wesley                   | New Glasgow, Pic. Co.             |
| Patterson, John George           | Grand River, Rich. Co.            |
| Patterson, Fred White            | New Glasgow, Pic. Co.             |
| Patterson, Robert Archibald      | Richibucto, N. B.                 |

|                                 |                          |
|---------------------------------|--------------------------|
| Fearman, Lionel Guy             | Halifax.                 |
| Finney, Earle Caleb             | Bear River, Digby Co.    |
| Piers, Judith Forbes            | Halifax.                 |
| Piper, Charles Durkee           | Boston, Mass.            |
| Porter, William Arthur          | Yarmouth.                |
| Porter, William Jesse           | Alma, Pictou Co.         |
| Power, Mary Louisa              | Halifax.                 |
| Ratlee, Neil MacLean            | Malpeque, P. E. I.       |
| Rayner, Harold S.               | Emmore, P. E. I.         |
| Reid, Norman Graham             | Greenhill, Pictou Co.    |
| Richey, Chester Arthur          | New Brandon, N. B.       |
| Roebe, Charles Joseph           | Bedford, Hfx. Co.        |
| Rogers, William Marshall        | Halifax.                 |
| Ross, Agnes Stewart             | St. John, N. B.          |
| Ross, Alexander Grant           | St. John, N. B.          |
| Ross, Frances Gray              | Yarmouth.                |
| Ross, Mary Alexandra            | St. John, N. B.          |
| Rowland, Versa Marion           | Halifax.                 |
| Rutledge, James Edward          | Halifax.                 |
| Saer, Margaret Thomson          | Toronto, Ont.            |
| Salter, Benjamin Chalmers       | Chatham, N. B.           |
| Salter, Frederick Millet        | Chatham, N. B.           |
| Scott, Robert Hamilton          | Jardineville, N. B.      |
| Seaman, Alfred Tenyson          | Charlottetown, P. E. I.  |
| Selton, John Charles            | St. John, N. B.          |
| Shreve, Florence Violet         | Digby.                   |
| Sibley, Gladys Marguerite       | Halifax.                 |
| Smith, Charles Gordon           | North Sydney, C. B. Co.  |
| Smith, Ernest Spurgeon          | North Sydney, C. B. Co.  |
| Smith, Gerald Raymond           | Londerry, Col. Co.       |
| Smith, Harold Archibald         | Sydney, C. B. Co.        |
| Smith, Marion                   | Dartmouth.               |
| St. Arnaud, Mrs. Henry          | Utica, N. Y.             |
| Stairs, Garin Lang, Jr.         | Halifax.                 |
| Stairs, Graham                  | Halifax.                 |
| Stairs, Hugh Morrow             | Halifax.                 |
| Steeves, Helen Gertrude Douglas | Summerside, P. E. I.     |
| Stevens, Geoffrey               | Dartmouth.               |
| Stewart, Amy May                | Philadelphia, Pa.        |
| Stewart, Evelyn Jean            | Bridgewater, Lun. Co.    |
| Stewart, John McKennie          | Grave's Point, C. B. Co. |
| Strachan, Annie MacNab          | Rockingham, Hfx. Co.     |
| Strickland, Leslie Clyde        | Trenton, Pictou Co.      |
| Sutherland, Colin George        | New Glasgow, Pic. Co.    |
| Swanson, John King              | Kentville, Kings Co.     |
| Tobin, Joseph                   | Halifax.                 |
| Tweedie, William John Vaune     | Kouchibouguac, N. B.     |
| Umlak, Annie Lucina Beak        | Halifax.                 |
| Vickery, Hubert Bradford        | Yarmouth.                |
| Whillans, Florence Mary         | N. Georgetown, P. Q.     |
| Whitman, Philip Louis           | Halifax.                 |
| Wright, Philip Leopold          | Hopewell Cape, N. B.     |
| Yocman, Alan Ritchie            | Halifax.                 |
| Yocman, Robert Forsyth          | Halifax.                 |
| Young, George DeWitt            | Millsville, Pictou Co.   |

|                                       |                        |
|---------------------------------------|------------------------|
| Zinck, Austen Alvin .....             | East Chester, Lun. Co. |
| Zwicker, Fenwick Homer Swynamer ..... | Lonsburg.              |
| Zwicker, Robert Josiah .....          | Lafayette, Lun. Co.    |

## REGISTERED FOR EXAMINATIONS ONLY.

|  |                             |
|--|-----------------------------|
| Archibald, George Stewart .....        | New Town, Guys Co.          |
| Cooke, Norman Lagan .....              | Guy's Riv., Col. Co.        |
| Freeman, Robert Parter .....           | Halifax.                    |
| Gray, Samuel Wilson .....              | Westville, Pic. Co.         |
| Hissler, Frank Ernest .....            | Halifax.                    |
| Kerr, Ephraim Joseph .....             | Belfast, Ireland.           |
| Knowlton, James Edward .....           | Parrsboro, Cumb. Co.        |
| McCharles, Malcolm Donald .....        | Baddeck Bridge, Vic.<br>Co. |
| MacGregor, Athol Fraser .....          | New Glasgow, Pic. Co.       |
| Mackenzie, Charles Edward .....        | Springhill, Cumb. Co.       |
| MacKinnon, James .....                 | Whycosmash, Inv. Co.        |
| McLean, George Munro Grant .....       | Strathmore, Inv. Co.        |
| McLean, Margaret McNaughton .....      | Mahone Bay, Lun. Co.        |
| McLeod, Beverley Frank .....           | Fredericton, N. B.          |
| MacMahon, Harvey Keith .....           | Waterville, Kings Co.       |
| MacMillan, Damon Alexander .....       | E. Lake Ainslie, Inv. Co.   |
| Messervy, John .....                   | Halifax.                    |
| Patrick, Ivan .....                    | Halifax.                    |
| Perry, William Joseph Geoffrey .....   | Black Point.                |
| Rosborough, Una Rae .....              | N. Sydney, C. B. Co.        |
| Smith, Minnie Lenore, B. A. .....      | Sydney, C. B. Co.           |
| Stapleton, William Clarke, B. Sc. .... | Dartmouth.                  |

## FACULTY OF LAW.

## THIRD YEAR.

|  |                       |
|--|-----------------------|
| Black, Charles Guy, B. A., M. A. ....    | Oxford, Cumb. Co.     |
| Dickson, James Ransom .....              | Fredericton, N. B.    |
| Duffy, Leon Levett, B. A. ....           | Hillboro, N. B.       |
| Graham, Roderick Douglas .....           | New Glasgow, Pic. Co. |
| Long, George Frederick Heber .....       | Centreville, N. B.    |
| Markay, Alexander Thomas, B. A. ....     | Pictou.               |
| MacPherson, Murdoch Alexander .....      | Grand Ass., Rich. Co. |
| Maloney, Clarence McDonald .....         | Trinidad, B. W. I.    |
| Michaud, Joseph Enoil, B. A., (Laval) .. | Edmundston, N. B.     |
| Morse, Herman Clare, B. A., (Kings) ..   | Middleton, Ann. Co.   |
| Parker, Eugene Troop, B. A. ....         | Belleisle, Ann. Co.   |
| Roper, John Shestose, B. A., M. A. ....  | Halifax.              |
| Skinner, William Henry .....             | Calgary, Alberta      |
| Stewart, James McGregor, B. A. ....      | Halifax.              |
| Vair, James Douglas, B. A. ....          | Pictou, N. S.         |

## SECOND YEAR.

|  |                          |
|--|--------------------------|
| Barns, Walter deWolfe, B. A. (Acad.) ..              | Dartmouth, N. S.         |
| Bradley, Frederick Gordon .....                      | St. John's, N.B.         |
| Craighan, John Adams, B. A., (U. N. B.) ..           | Newcastle, N. B.         |
| Curry, Nathaniel Ronnie .....                        | Montreal, P. Q.          |
| Jones, Owen Bell, B. A., M. A. ....                  | Halifax.                 |
| Maddonald, Donald Duncan, B. A. (St.<br>F. X.) ..... | Batley's Brook, Pic. Co. |
| Maddonald, John Weldford, B. A., (Tor.) ..           | Pictou, N. S.            |
| Murray, Wilfrid Laurie, B. A., (Mt. All.) ..         | Halifax.                 |
| Ormond, Lawrence Edward, B. A., (St.<br>F. X.) ..... | Amherst, Cumb. Co.       |
| Patterson, Malcolm Alexander .....                   | Sydney, C. B. Co.        |
| Pinos, Henry Hoyt, B. A., (Acad.) .....              | Waterville, Kings Co.    |
| Ross, William Alexander .....                        | St. John, N. B.          |
| Seaman, Alexander Macfarlane .....                   | Minville, Cumb. Co.      |
| Smith, Vincent Reynolds, B. A., (St. F. X.) ..       | Amherst, Cumb. Co.       |
| Stairs, John Culbert, B. A. ....                     | Halifax.                 |
| Whinyard, LaMort Stevens .....                       | Lawrencetown, Ann. Co.   |

## FIRST YEAR.

|  |                              |
|--|------------------------------|
| Archibald, Maynard Brown .....                                 | Manganese Mines, Col.<br>Co. |
| Barron, John Augustine .....                                   | St. John's, N.B.             |
| Cockburn, George H. I. ....                                    | St. Andrew's, N. B.          |
| Cyr, Arthur Joseph .....                                       | St. Hilare, N. B.            |
| MacNutt, Earle Reynolds .....                                  | Fredericton, N. B.           |
| Nicholson, James Hume Turnbull .....                           | Sydney Mines, C. B. Co.      |
| Pullar, Glennon James .....                                    | Calgary, Alberta.            |
| Robichaud, Louis Prudent Alexander,<br>B. A., (St. Jos.) ..... | Cocagne, N. B.               |

## SPECIAL STUDENTS.

|  |                       |
|--|-----------------------|
| Arkhurst, Ernest Victor .....          | Halifax.              |
| Climes, Endolf Alexander Leopold ..... | Halifax.              |
| Daly, Gordon McLaren .....             | Halifax.              |
| Doane, William Edward Everett .....    | Halifax.              |
| Fraser, James Stanley .....            | New Glasgow, Pic. Co. |
| Graham, Frank Dunstone .....           | Halifax.              |



|                         |                           |
|-------------------------|---------------------------|
| Grant, William Hayes    | St. John's, Nfld.         |
| Hawkins, Charles Robert | Lunenburg, N. S.          |
| Kemp, Hector Downie     | St. Peter's, Rich. Co.    |
| Lewis, George Murray    | Yarmouth, N. S.           |
| MacAulay, Peter         | Big Baddeck, Vic. Co.     |
| McLeod, Hugh Gordon     | Greenhill, Pictou Co.     |
| MacMillan, John Angus   | E. Lake Ainslie, Inv. Co. |
| Murray, Hugh Allan      | Halifax                   |
| Nelson, William McCully | Tatamagouche, Col. Co.    |
| Phinney, Earle Caleb    | Bear River, Digby Co.     |
| Rutledge, James Edward  | Halifax                   |
| Stairs, Hugh Morrow     | Halifax                   |
| Swanson, John King      | Kentville, Kings Co.      |
| Yeoman, Robert Forayth  | Halifax                   |
| Young, George DeWitt    | Millville, Pictou Co.     |

## REGISTERED FOR EXAMINATIONS ONLY.

|                       |                  |
|-----------------------|------------------|
| Dares, Robt St. Clair | Dartmouth, N. S. |
|-----------------------|------------------|

## FACULTY OF MEDICINE.

## FIFTH YEAR.

|   |                             |
|---|-----------------------------|
| Barns, Geoffrey Alden                           | Dartmouth, N. S.            |
| Bethune, Roderick Owen                          | Baddeck, Vic. Co.           |
| Finlay, Francis Stanislaus, B. A. (Stc. Anne)   | Halifax                     |
| Johnson, James MacGregor                        | Tatamagouche, Col. Co.      |
| MacKinnon, Albert Hugh                          | Pictou Landing, Pic. Co.    |
| MacNeill, Daniel, B. A. (St. F. X.)             | Mahou, Inv. Co.             |
| Wilson, Arthur Augustine Cutbush, B. A. (Kings) | Springhill Mines, Cumb. Co. |

## FOURTH YEAR (JENAL).

|                                |         |
|--------------------------------|---------|
| Campbell, Alexander Rae, B. A. | Halifax |
|--------------------------------|---------|

## FOURTH YEAR.

|   |                                  |
|---|----------------------------------|
| Dickie, Walter Reginald, B. A.              | Stewiacke, Col. Co.              |
| Duall, James Angus, B. A.                   | New Glasgow, Pic. Co.            |
| Gass, Charles Leon, B. A.                   | Londonderry, Col. Co.            |
| Little, Ferguson Robert                     | Halifax                          |
| MacKays, William Patrick                    | Moncton, N. B.                   |
| MacKenzie, Seymour Gourley                  | Truro, Col. Co.                  |
| McKeough, William Thomas, B. A. (St. F. X.) | Atles, Antigonish Co.            |
| MacLenn, Jean Augusta                       | North Sydney, C. B. Co.          |
| Morton, Lewis Mark                          | Springfield, Ann. Co.            |
| Reid, John Burris                           | Middle Musquodoboit, Halifax Co. |
| Tait, Harold Sinclair                       | St. John's, Nfld.                |
| Tompkins, Miles Gregory                     | East Margaree, Inv. Co.          |
| Wiswell, Gordon Blanchard, B. A.            | Halifax                          |

## THIRD YEAR.

|                            |                       |
|----------------------------|-----------------------|
| Blackett, Arthur Edwin     | Halifax               |
| Brown, Joseph Seward       | Glace Bay, C. B. Co.  |
| Chisholm, James Stanley    | Halifax               |
| Davidson, Victor David     | Truro, Col. Co.       |
| Denimore, Fred Thompson    | Noel Shore, Hants Co. |
| Gittleton, Philip Michael  | Glace Bay, C. B. Co.  |
| Godfrey, Harry Mann        | Marshfield, P. E. I.  |
| Graham, Judson Vye         | New Glasgow, Pic. Co. |
| Real, James Gordon Freeman | Dartmouth             |

|   |                         |
|---|-------------------------|
| Kilpatrick, Elina                       | Sydney Mines, C. B. Co. |
| Lellane, Joseph Emile, B.A. (Stc. Anne) | Church Point, Digby Co. |
| Meech, Lloyd Remington                  | North Sydney, C. B. Co. |
| Moore, Hugh Stewart                     | Kentville, Kings Co.    |
| Withrow, Ralph Roscoe                   | Elmsdale, Hants Co.     |

## SECOND YEAR.

|                             |                             |
|-----------------------------|-----------------------------|
| Blackadar, Karl Kenneth     | Hebron, Yar. Co.            |
| Currie, James Albert        | Port Morien, C. B. Co.      |
| Dwyer, Thomas Ronald        | Holyrood, Nfld.             |
| Godfrey, Alexander Taylor   | Brooklyn, Queens Co.        |
| Grant, William Alexander    | West River, Pic. Co.        |
| Hall, Reuben Stanford       | Kingston, Jamaica, B. W. I. |
| Herman, George Evans, B. A. | Dartmouth, N. S.            |
| Hines, Arthur               | Noel, Hants Co.             |
| Kirkpatrick, Harley William | Gaspereaux Sta., N. B.      |
| Lyons, James Norbert        | Halifax                     |
| Marsters, Charles Galitzan  | Halifax                     |
| McLellan, Frederic Fulton   | Noel Shore, Hants Co.       |
| Pennington, Louise Alberta  | Montreal, P. Q.             |
| Stoddard, Robert Harvey     | Jeddore, Hfx. Co.           |
| Whitehouse, Samuel          | Lunenburg                   |

## FIRST YEAR.

|   |                                  |
|---|----------------------------------|
| Anderson, John Wilcox                   | Heart's Content, Nfld.           |
| Archibald, Harry Hambricke              | Truro, Col. Co.                  |
| Bernard, Samuel David                   | Old Harbour, Jamaica, B. W. I.   |
| Blair, Edward Murray                    | Truro, Col. Co.                  |
| Britton, Harry Earle                    | Northport, Cumb. Co.             |
| Campbell, Donald St. Clair              | Fairview, Hfx. Co.               |
| Candler, William Duncan                 | Halifax                          |
| Davies, John Angus                      | Wallace Sta., Cumb. Co.          |
| Deveau, George Raymond                  | Salt Springs, Pic. Co.           |
| Fuller, Charles Knowles                 | Mavilleto, Digby Co.             |
| Lindsay, Roy Dickson                    | Yarmouth                         |
| Litt, Garnet Alexander                  | Caribou Mines, Hfx. Co.          |
| McConney, Jonathan, Randolph Theophilus | Halifax                          |
| McCurdy, Dexter Scott                   | Belmont, Trinidad, B. W. I.      |
| McDonald, Wilfred Murray                | Truro, Col. Co.                  |
| McGrath, Joseph Percy                   | Sydney Mines, C. B. Co.          |
| McLarren, Philip Doune                  | Tusket, Yar. Co.                 |
| McNabir, Kenneth Grant                  | Halifax                          |
| Matheson, Florence Elizabeth            | Trinidad, B. W. I.               |
| Parker, Vernon Hill Troop               | Plainfield, Pic. Co.             |
| Reid, Ferdinand Theodore                | Belleisle, Ann. Co.              |
| Steniewicz, Thaddeus                    | St. Elizabeth, Jamaica, B. W. I. |
| Sutherland, Collis George               | Fairview, Hfx. Co.               |
| Turel, Solomon Jacob                    | New Glasgow, Pic. Co.            |
| Weir, Andrew Fraser                     | Halifax                          |
| Zwecker, Douglas William Norman         | New Glasgow, Pic. Co.            |
|   | Lunenburg                        |

## SPECIAL STUDENTS.

|                             |                                   |
|-----------------------------|-----------------------------------|
| Lebletter, Thomas Alphonsus | North Sydney, C. B. Co.           |
|                             | REGISTERED FOR EXAMINATIONS ONLY. |
| Kaith, Claude Hill          | New Glasgow, Pic. Co.             |

## FACULTY OF DENTISTRY.

## FOURTH YEAR.

Hepper, Anson Duncan.....Tripp, Col. Co.

## THIRD YEAR.

Chisholm, George Philip.....Halifax, N. S.  
 Cowan, Canada Harold.....Regina, Sask.  
 Daniel, Herbert LeMert.....Bear River, Digby Co.  
 Parker, Charles William.....Bellisle, Ann. Co.

## SECOND YEAR.

McLellan, Frederic Fulton.....Noel Shore, Hants Co.  
 Nichols, Morley Puncheon.....Aylesford, Kings Co.  
 Woodbury, Karl Fairfield.....Halifax, N. S.

## FIRST YEAR.

Fraser, Roy Weldon.....New Glasgow, N. S.  
 Himmelman, Herbert Bowers.....Rose Bay, Lun. Co.  
 Logan, John Stuart\*.....Shubenacadie, Hants Co.  
 Richmond, Gordon B.....Sydney, C. B. Co.  
 Warren, Percy Herbert.....Sussex, N. B.

## REGISTERED FOR EXAMINATIONS ONLY.

Burke, John Anthony.....St. John's, Nfld.

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\*Deceased Jan. 13, 1913.