

*Office Copy*

CALENDAR  
OF  
DALHOUSIE COLLEGE  
AND  
UNIVERSITY.

HALIFAX, NOVA SCOTIA.

1899-1900.



HALIFAX:  
PRINTED FOR THE UNIVERSITY BY THE NOVA SCOTIA PRINTING CO.

1899.

# 1899-1900.

## TIME TABLE—FACULTIES OF ARTS AND SCIENCE.

Years.	Hours.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.
First Year.	9	Jun. Chem.		Jun. Chem.		Jun. Chem.
	10	Latin	Greek	Latin	Greek	Latin
	11	Jun. Math.	Jun. Math.	Jun. Math.	Jun. Math.	Jun. Math.
	12		English		Engl sh.	
	2	2nd German	2nd French	2nd German.	2nd French	2nd German.
	3	1st German.	1st French.	1st German.	1st French.	1st German.
	4	Botany*				
Second Year.	9	3rd German.	3rd French.	3rd German.	3rd French	3rd German
	10	S. n. Math.	Sen. Chem.	Sen. Math.	Sen. Chem.	Sen. Math.
	11	Latin	Sen. Math.		Sen. Math.	Sen. Chem. (Md)
	12	English	Greek	Latin	Greek	Latin
	2	Jun. Physics.	Jun. Phil.	English	Jun. Physics	English
	3	2nd German	2nd French.	2nd German.	2nd French	2nd German.
	4		Jun. Physics.			Jun. Phil.
Third Year.	9	3rd German.	3rd French.	3rd German.	3rd French	3rd German
	10	Sen. Physics.	Const. Hist.	Adv. Classics.	Const. Hist.	Sen. Chem.
	11	Sen. Phil.	Sen. Chem.	Sen. Physics.	Sen. Chem.	1st Greek
	12	Mod. Phil.	English	English	English	English
	2	Jun. History.	Pol. Economy	Sen. Phil.	Pol. Economy.	Sen Chem. (Md)
	3	Latin	App. Mechan.	Mod. Phil.	App. Mechanics	Acoustics
	4	Adv. Math.	Jun. Physics.	Jun. History.	Jun. Physics.	Jun. History
	5	2nd German.	Mineralogy	Mineralogy	Mineralogy	Acoustics
	6	Botany*	3rd Greek	Latin	3rd Greek	Adv. Classics.
	7	1st German.	Zoology	Adv. Math.	Zoology	Adv. Math.
	8	Moral Phil.	1st French.	2nd German.	2nd French	2nd German.
Fourth Year.	9	3rd German.	3rd French.	3rd German.	3rd French	3rd German
	10	Sen. Phil.	Sen. Chem.	Const. Law	Sen. Chem.	Const. Law
	11	Sen. Physics.	Pol. Economy	Adv. Classics.	Pol. Economy	Sen. Chem (Md)
	12	Adv. Mat. Phy.	App. Mechan.	Sen. Phil.	App. Mechanics	Adv. Exp. Phys.
	1		Sen. History.	Sen. Physics.	Sen. History	Mineralogy
	2	Latin	Mineralogy	Adv. Mat. Phy.	Mineralogy	2nd Greek
	3		2nd Greek	Latin	2nd Greek	Adv. Classics.
	4		3rd Greek	Contracts	3rd Greek	Contracts
	5		Adv. Math.		Adv. Math.	Adv. Math.
	6	2nd German.	2nd French.	2nd German.	2nd French	2nd German
	7	Botany*				
8	Moral Phil.	Zoology		Zoology	Mor. Phil.	
9	Greek Phil.	Adv. Phil.		Adv. Phil.	Greek Phil.	
10	Botany*					
11		English	The. Educ.	English.		
12			Hist. Educ.			

N. B.—The days and hours of meeting of classes not mentioned in this Time Table will be arranged at the opening of the session.

\*The time of meeting of the Botany class may, in the event of conflict, be changed.

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## ADDENDUM.

N. E. MacKay, Esq., of Halifax, has intimated to the Senate his intention to offer an annual prize of \$40 in the Chemistry of the Second year. Conditions of competition will be announced at the opening of the Session.

## ERRATA.

Page 42, 10th line, *for*: either Senior Chemistry . . . . . Botany, *read*: in any one year either Junior Chemistry or Senior Chemistry (Medical), and Physiology.

Page 56, § XVII, 3rd line, *for* 14 *read* 13.

# UNIVERSITY ALMANAC, 1899-1900.

1899.

- Aug. 17. Th.—Last day for receiving applications for Matriculation Examination (Provincial Medical Board).
21. M.—Last day for receiving notices of Supplementary Examinations (Medical Faculty).
22. Tu.—Last day for receiving notices of Supplementary Examinations (Law Faculty).
29. Tu.—Session begins (Law Faculty).  
10 A. M., Registration and payment of Class Fees.  
3 P. M., Supplementary Examinations.
30. W.—Lectures begin (Law Faculty).
31. Th.—Matriculation Examination (Prov. Med. Board) begins at 9 A. M., at Medical College.
- Sept. 2. Sa.—10 A. M., Meeting of Senate.  
10 A. M., Meeting of Faculty of Arts.
4. M.—Last day for receiving notices of Supplementary Examinations (Arts and Science Faculties).
- “ “ —Supplementary Examinations begin (Medical Faculty) 10 A. M.
- “ “ —Results Matriculation Examination (Prov. Med. Board) declared, and certificates issued.
- “ “ —Registration and payment of Class Fees (Medical Faculty), 11 A. M.
5. Tu.—Session begins (Arts and Science Faculties).  
3 P. M., Registration of candidates for Matriculation and Scholarship Examinations (Arts and Science Faculties).
- “ “ —Lectures begin at Halifax Medical College.
6. W.—Examination for Junior and Senior Matriculation and for Entrance Scholarships (Arts and Science Faculties).  
9.45 A. M., Latin.  
3 P. M., Greek.
7. Th.—10 A. M., Geometry.  
3 P. M., Arithmetic, Algebra.
8. F.—10 A. M., History and Geography.  
3 P. M., English.
9. Sa.—10 A. M., French.  
3 P. M., German.
11. M.—10 A. M., Chemistry.
- “ “ —10 A. M., Supplementary Examinations begin (Arts and Science Faculties).
13. W.—9 A. M., Meetings of Faculties of Arts and Science.  
3 P. M., CONVOCATION. Address by Prof. J. G. MacGregor.
14. Th.—Registration and payment of class fees (Arts and Science Faculties).  
“ “ —Lectures begin (Arts, Science and Medical Faculties).
25. M.—Intimation as to elective subjects to be made by undergraduates (Arts Faculty) on or before this day.
- Oct. 5. Th.—4.30 P. M., Meeting of Faculty of Law.
13. F.—4 P. M., Meeting of Faculties of Arts and Science.
- “ “ —Returns as to residence and church attendance to be made on or before this day.

- Nov. 2. Th.—4.30 P. M., Meeting of Faculty of Law.  
 — Th.—Thanksgiving Day.—No lectures.  
 — F. —Munro Day.—No lectures.
- Dec. 7. Th.—4.30 P. M., Meeting of Faculty of Law.  
 14. Th.—Last day of lectures (Arts and Science Faculties).  
 16. Sa.—Christmas Examinations (Arts and Science Faculties) begin :  
     9.00 A. M., Junior Philosophy, Senior Physics.  
     3.00 P. M., Junior Physics.  
 18. M.—8.45 A. M., Latin.  
     11.15 A. M., French.  
     3.00 P. M., Botany.  
 19. Tu.—9.00 A. M., German.  
     11.15 A. M., Junior and Senior Mathematics.  
     3.00 P. M., First English, Moral Philosophy.  
 20. W.—9.00 A. M., Political Economy.  
     11.15 A. M., Second, Third and Fourth English.  
     3.00 P. M., Chemistry, Senior Philosophy.  
 “ “ —Last day of Lectures (Medical Faculty).  
 21. Th.—9.00 A. M., Greek.  
     11.15 A. M., Senior History,  
     3.00 P. M., Junior and Senior Mathematics, Junior History,  
     Applied Mechanics.  
 “ “ —Last day of lectures (Law Faculty).

## 1900.

- Jan. 3. W.—Lectures resumed (Faculty of Law).  
 4. Th.—Lectures resumed (Faculty of Medicine).  
 8. M.—Lectures resumed (Faculties of Arts and Science).  
 26. F. —4 P. M., Meeting of Senate.
- Feb. 1. Th.—4.30 P. M., Meeting of Faculty of Law.  
 9. F. —Last day of lectures (Faculty of Law).  
 10. Sa.—Sessional Examinations begin (Faculty of Law).  
     10 A. M., Equity.  
 12. M.—10 A. M., Constitutional History ; International Law.  
     3 P. M., Constitutional Law.  
 13. Tu.—10 A. M., Sales.  
     3 P. M., Crimes.  
 14. W.—10 A. M., Real Property, Advanced.  
     3 P. M., Torts.  
 15. Th.—10 A. M., Evidence.  
     3 P. M., Real Property, 1st Year.  
 16. F. —10 A. M., Contracts, Conflict of Laws.  
     3 P. M., Shipping.  
 24. Sa.—10 A. M., Procedure.
- Mar. 28. W.—Ash Wednesday.—No lectures.  
 1. W.—Last day for receiving M. A., M. L. and M. Sc. Theses.  
 28. W.—Last day for receiving applications for Primary and Final  
     M. D., C. M. Examinations.
- April 4. W.—Last day of lectures (Faculties of Arts and Science).  
 5. Th.—Last day of lectures (Faculty of Medicine).  
 “ “ —Spring Examinations (Faculties of Arts and Science) begin.  
     9.00 A. M., Senior and Junior Philosophy.  
     3.00 P. M., Education.  
 6. F. —9.00 A. M., Practical Chemistry (Laboratory, 1st Division).  
     2.30 P. M., Practical Chemistry (Laboratory, 2nd Division).  
 7. Sa.—8.45 A. M., Latin.  
     11.15 A. M., French.  
     3.00 P. M., Practical Physics.

- April 9. M.—Class certificates (Medical Faculty, and Hx. Med. College), issued on presentation of class fee receipts at Registrar's office, Dalhousie College, 11 A. M., and at Secretary's office, Hfx. Med. College, respectively.
- “ “ —Spring Examinations continued:  
 9.00 A. M., Second, Third and Fourth English.  
 11.15 A. M., Additional French.  
 3.00 P. M., Junior Physics.
10. Tu.— 9.00 A. M., First English, Additional Third English.  
 11.15 A. M., Political Economy; Mineralogy.  
 3.00 P. M., Sen. Physics; Addit. Jun. and Sen. Philosophy.
11. W.—Primary and Final M. D., C. M. Examinations begin:—Spring Examinations, continued:  
 9.00 A. M., Jun. and Sen. Practical Chemistry (written).  
 11.15 A. M., Mathematics; Junior History.  
 3.00 P. M., Additional Latin; Additional Education; Junior Anatomy; Materia Medica and Therapeutics; Surgery.
12. Th.— 9.00 A. M., Junior and Senior Chemistry.  
 3.00 P. M., Addit. Greek; Medical Jurisprudence and Hygiene; Medicine.
13. F. —Good Friday.
14. Sa.— 9.00 A. M., Greek.  
 11.15 A. M., Sen. History.  
 3.00 P. M., Greek Philosophy.  
 — — Sen. Anatomy; Pathology.
16. M. — 9.00 A. M., Mathematics; Addit. Sen. Physics.  
 11.15 A. M., Addit. Junior Physics.  
 3.00 P. M., Addit. History; Addit. First and Second English; Histology; Obstetrics and Diseases of Women and Children.
17. Tu.— 9.00 A. M., Addit. Mathematics; Addit. Greek Philosophy; Oral Examination in Chemistry.  
 3.00 P. M., German; Oral Exams. in Chem., Med. Jurisprudence and Hygiene, Mat. Medica and Therapeutics.  
 — — Clinical Medicine at Victoria General Hospital.
18. W.— 9.00 A. M., Addit. German.  
 11.45 A. M., Addit. Political Economy.  
 3.00 P. M., Botany; Addit. 1st and 3rd German; Physiology.  
 — — Clinical Surgery at Victoria General Hospital.
19. Th.—10.00 A. M., Zoology.  
 3.00 P. M., Oral Exams., Anatomy, Pathology, Medicine.
20. F. — 3.00 P. M., Oral Exams., Physiology, including Histology; Surgery; Obstetrics and Diseases of Women and Children.
21. Sa.—Meeting of Faculties of Arts and Science at 9 A. M.  
 “ “ —Meeting of Faculty of Medicine at 4 P. M.
22. M.—Meeting of Senate at 9 A. M.
- “ “ —Results of Examinations (Faculties of Arts, Science and Medicine) declared.
24. Tu.—CONVOCAION, at 3 P. M.

N. B.—The dates of the Examinations are liable to change as circumstances may demand.

## HISTORICAL SKETCH.

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DALHOUSIE COLLEGE was founded by the Right Honourable George Ramsay, Ninth Earl of Dalhousie, in 1821. "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, in Maine, during its occupation in 1814 by Sir John C. Sherbrooke, then Lieutenant-Governor of Nova Scotia. These funds the British Government authorized the Earl of Dalhousie, Sir John's successor, to expend "in defraying the expense of any improvement which it might seem expedient to undertake in the Province;" and the Earl, believing that "a Seminary for the higher branches of education is much needed in Halifax—the seat of the Legislature—of the courts of justice—of the military and mercantile Society," decided upon "founding a College or Academy on the same plan and principle of that at 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 expand with the growth and improvement of our society."

The original Board of Governors consisted of the Governor-General of British North America the Lieutenant-Governor of Nova Scotia, the Bishop, the Chief Justice and President of Council, the Provincial Treasurer and Speaker of the House of Assembly.

After unsuccessful efforts on the part of both the British Government and the Board of Governors to effect a union with King's College, the only other then existing in the Province, this College went into operation in 1838, under the Presidency of the Rev. Thomas McCulloch, D. D., and with a staff of three Professors.

By an Act passed in 1841, University powers were conferred on the College, and the appointment of the Governors was vested in the Lieutenant-Governor and Council.

In 1843, President McCulloch died; and in 1845, the College was closed, the Governors considering it "advisable to allow the funds of the institution to accumulate."

In 1848, an Act was passed authorizing the Lieutenant-Governor and Council to appoint a new Board of Governors "to take some steps for rendering the institution useful and efficient as to His Excellency may seem fit." This Board, from 1849 to 1859, employed the Funds of the University to support a High School.

In 1856, the Arts department of the Gorham College, Liverpool, N. S., was transferred to this College "with a view to the furtherance of the establishment of a Provincial University," and an attempt was made to conduct the Institution as a University under the Act of 1841. This union, however, came to an end in 1857.

In 1863 the College was re-organized under the following Act:

*An Act for the Regulation and Support of Dalhousie College.*

(Passed the 20th day of April, A. D., 1863.)

WHEREAS, it is expedient to extend the basis on which the said College is established, and to alter the constitution thereof, so as the benefits that may be fairly expected from its invested capital and its central position may if possible, be realized, and the design of its original founders, as nearly as may be, carried out.



*Be it enacted by the Governor, Council, and Assembly, as follows:—*

1. The Board of Governors now appointed, consisting of the Honorable William Young, the Honorable Joseph Howe, Charles Tupper, S. Leonard Shannon, John W. Ritchie, and James F. Avery, Esquires, shall be a body politic and corporate by the name and style of the Governors of Dalhousie College at Halifax, and shall have and exercise all usual powers and authorities as such, and have the title, control and disposition of the buildings on the Parade, at Halifax, and of the property and funds belonging to the said college and held for the use thereof, by the present Governors; and all vacancies at the Board shall be filled up on recommendation of the remaining members thereof by the Governor-in-Council; and any of the Governors shall be removed by the Governor-in-Council, at the instance of the Board of Governors.

2. Whenever any body of Christians, of any religious persuasion whatsoever, shall satisfy the Board that they are in a position to endow and support one or more chairs or professorships in the said College, for any branch of literature or science, approved by the Board, such body in making such endowment, to the extent of twelve hundred dollars a year, shall have a right, from time to time, for every chair endowed, to nominate a Governor to take his seat at the Board with the approval of the Board of Governors and of the Governor-in-Council, and shall also have a right, from time to time, to nominate a Professor for such chair, subject to the approval of the Board of Governors; and in the event of the death, removal, or resignation of any person nominated under this section, the body nominating shall have the power to supply the vacancy thus created.

3. The same right of nominating a Professor from time to time shall belong to any individual or number of individuals, who shall endow to the same extent and support a chair or Professorship, and to the nominee of any testator by whose will a chair or professorship may be so endowed.

4. The Governors shall have power to appoint, and to determine the duties and salaries of the President, Professors, Lecturers, Tutors, and other officers of the College, and from time to time to make statutes and by-laws for the regulation and management thereof, and shall assemble together as often as they shall think fit, and upon such notice as to them shall seem meet, and for the execution of the trust hereby reposed in them.

5. The said college shall be deemed and taken to be a University, with all the usual and necessary privileges of such institutions; and the students shall have liberty and faculty of taking the degrees of bachelors, masters, and doctors, in the several arts and faculties at the appointed times; and shall have liberty within themselves of performing all scholastic exercises for the conferring of such degrees, and in such manner as shall be directed by the statutes and by-laws.

6. No religious tests or subscriptions shall be required of the professors, scholars, graduates, students, or officers of the College.

7. The internal regulations of the said College shall be committed to the Senatus Academicus, formed by the respective chairs or professorships thereof, subject in all cases to the approval of the Governors.

8. The Legislature shall have power, from time to time, to modify and control the powers conferred by this Act.

9. The Acts heretofore passed in relation to Dalhousie College are hereby repealed, except the Act passed in the fourth year of his late Majesty King George the Fourth, entitled, "An Act authorizing the lending of a sum of money to the Governors of Dalhousie College, and for securing the payment thereof."

This Act was afterwards amended by the following Acts :

*An Act to amend the Act for the Regulation and Support of Dalhousie College.*

(Passed the 6th day of May, A. D., 1875.)

*Be it enacted by the Governor, Council, and Assembly as follows :—*

1 The present Board of Governors, consisting of nine persons, shall be increased to a number not exceeding fifteen ; and the Board shall be filled up with new nominations made on the same principle as set forth in the first section of the Act hereby amended ; and any of the Governors shall be removable, as heretofore by the Governor-in-Council.

2 The Governors shall have power to affiliate to Dalhousie College any other college desirous of such affiliation, or any schools in arts, in theology, in law, or in medicine, and to make statutes for such affiliations, and for the regulation and management thereof, on the same principles as obtain in other Universities, and to vary and amend such statutes from time to time. Provided always, that such statutes of affiliation, before they go into effect, shall be submitted to and receive the sanction of the Governor-in-Council.

3 So much of Chapter 24 of the Acts of 1863, entitled, "An Act for the Regulation and Support of Dalhousie College," or of any other Act as is inconsistent with this Act, is repealed.

*An Act to provide for the Organization of a Law Faculty in connection with Dalhousie College, and for other purposes.*

(Passed the 14th day of April, A. D. 1881.)

*Be it enacted by the Governor, Council, and Assembly, as follows :—*

1. The Governors of Dalhousie College, at Halifax, shall in addition to the powers conferred on them by Section 2 of chapter 27 of the Acts of 1875, entitled "An Act to amend the Act for the Regulation and support of Dalhousie College," have power to organize a Faculty of Law in connection with such College, and to appoint professors or lecturers in law, and out of the revenues of the College to provide for the maintenance and support of such Faculty, and to make rules for the regulation and management of such Faculty, and for the granting of degrees in law on the same principles as obtain in other universities, and to vary and amend such rules from time to time.

2. Section 3 of chapter 24 of the Acts of 1863, entitled "An Act for the regulation and support of Dalhousie College," is amended by adding the words "and governor" after the word "professor" in the said section, and any individual who has hitherto endowed a Chair or Chairs in the College shall have a right to nominate a governor for each Chair endowed, in the same way as if section 3 aforesaid had been originally passed as now amended.

3. Section 1 of the said chapter 27 of the Acts of 1875, is amended by adding the words "provided, however, that in the event of any body of Christians, individual, or number of individuals, endowing and supporting one or more Chairs or professorships in the said College, as provided by sections 2 and 3 of the Act hereby amended, and of such body of Christians or individuals nominating a professor or governor by virtue thereof, the number of governors may be increased beyond fifteen, but such increase shall be limited to the number of such chairs or professorship as may after the passing of this Act be endowed by virtue of said sections 2 and 3."

In pursuance of the Act of 1863, the Presbyterian Church of the Lower Provinces closed their College, and agreed to support two chairs in this University; the Synod of the Maritime Provinces in connection with the Church of Scotland founded one chair; and the College opened in that year, under the Principalship of Rev. James Ross, D. D., and with an Arts Faculty of six Professors. On the death of Principal Ross in 1885, and Professor Lyall in 1890, the Presbyterian Church withdrew the two Professorships they had previously supported.

In 1868, a Faculty of Medicine was organized, which, in 1875, developed into the Halifax Medical College. In 1885 the Faculty was re-organized.

In 1883 the Faculty of Law, and, in 1891, the Faculty of Pure and Applied Science, were added.

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In 1879, the late GEORGE MUNRO, of New York, a native of this Province, placed in the hands of the Governors the funds necessary for the endowment of a Professorship of Physics. In 1881 he established a Professorship of History and Political Economy. In 1882, he founded a chair of English Language and Literature. In 1883 he added to the staff of the College a Professor of Constitutional and International Law. In 1884 he founded a Professorship of Philosophy. From 1883 till 1890 he provided Tutors in Classics and Mathematics. From 1880 to 1894 he provided the University with Exhibitions and Bursaries to the amount of \$83,148.69, which, according to his own desire, were so offered for competition as to stimulate to greater activity and efficiency the High Schools and Academies of Nova Scotia and the neighboring Provinces.

The Governors desire to place on permanent record their high sense of Mr Munro's enlightened public spirit, and their gratitude to him for the munificent manner in which he came to their help in the work of building up an unsectarian University in Nova Scotia.

To connect the donor's name for all time with the benefits thus conferred both on the University and on his native country, the chairs which he founded shall be called the GEORGE MUNRO CHAIRS of PHYSICS, of HISTORY AND POLITICAL ECONOMY, of ENGLISH LANGUAGE AND LITERATURE, of CONSTITUTIONAL AND INTERNATIONAL LAW, and of PHILOSOPHY, respectively.

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In 1882, ALEXANDER McLEOD, Esq., of Halifax, bequeathed to the University the residue of his estate. The following is an extract from his will:

"All the residue of my estate I give and bequeath to the Governors of Dalhousie College or University in the City of Halifax in Trust, that the same shall be invested and form a fund to be called the McLeod University Fund, and the interest and income of which shall be applied to the endowment of three or more professorial chairs in said College as they may deem proper; but this bequest is made upon these conditions namely, that if at any time the said College or University shall cease to exist, or be closed for two years, or be made a sectarian college, then and in any such case, the said fund and all accumulations thereof shall go to the said Synod of the Maritime Provinces of the Presbyterian Church in Canada, to be used for the purposes of higher education in connection with said Synod, and it is further stipulated that no part of this fund shall ever be used, either by said Governors of Dalhousie College or by the said Synod, as a collateral security under any circumstances whatever."

According to the provisions of the will, the McLEOD CHAIRS of CLASSICS, CHEMISTRY, and MODERN LANGUAGES were founded.

In 1886, the late SIR WILLIAM YOUNG, one of the oldest and best friends of the College, subscribed \$20,000 to start a Building Fund. In 1887, Sir William Young bequeathed to the University half the residue of his estate, together with a Prize Fund of \$4,000, and the amount remaining unpaid of his subscription to the Building Fund. The following are extracts from his will :

"I bequeath to the Governors of Dalhousie College at Halifax, the sum of \$4,000 to be kept continually invested by them, and that they shall apply the income derived therefrom in founding and maintaining a prize of a gold medal of the value of \$50, to be called Sir William Young's medal, and to be annually awarded for scholastic eminence, and to have the recipient's name engraved thereon, with the year of his attendance at College, and in founding and maintaining such other prizes for distribution among the students of said College as the Governors may from time to time approve.

"Having agreed and promised to the Governors of Dalhousie College to pay them the sum of \$20,000 to aid in the erection of their building now in progress, I direct my executors to pay the said sum from time to time as it may be required by the said Governors.

"All the rest and residue of my estate I direct my executors to divide into two even and equal parts or shares, and to pay over one such part or share to \* \* \* , and the other part or share to the Governors of Dalhousie College at Halifax for the general purposes of said College.

"In the event of my having paid to Dalhousie College during my life-time any part of said sum of \$20,000 hereinbefore mentioned, as agreed to be paid to them to aid in the erection of the college buildings, I do direct my executors to pay to said Governors the balance only, if any, that may be due on said sum at the time of my decease."

In 1887, by the will of the late J. F. AVERY, M. D., of Halifax, the following bequest was made to the college :

"I give and bequeath the sum of \$500 to Dalhousie College in the City of Halifax, to be at the disposal of the Senatus of the said College, and the interest thereof to be appropriated for an annual prize."

In 1887, by the will of the late MRS. HARRIET ELIZABETH MACKENZIE, or MORRISON, of Stornaway, Scotland, formerly of Pictou, N. S., the following bequest was made to the College :

"To Dalhousie College £1,000 for founding a bursary for students attending said College, subject to such conditions and regulations as the governing body of said College may appoint, but with this proviso that said bursary shall be called the 'Mackenzie Bursary,' and that students of the name of Mackenzie, Maclean, and Fraser shall have a preference in the selection of beneficiaries therefor."

In 1890, by the will of the late JOHN P. MOTT, ESQ., of Halifax, the following bequest was made to the College :—

"I give and bequeath to the Board of Governors of Dalhousie College, or to such individuals or organization in whom or in which the control of such College shall be legally vested, the sum of ten thousand dollars, to be legally invested by the said Governors, individuals or organization, and the proceeds applied for the benefit of such College, so long as it shall remain and continue to be a non-sectarian institution as at present."

The following donations have been made to the Endowment Fund :

Hon. Sir William Young, W. J. Stairs, Esq., Hon. Stayley Brown, John Gibson, Esq., John P. Mott, Esq., Wm. P. West, Esq., Thomas A. Ritchie, Esq., and Hon. Robert Boak, \$1,000 each ; Adam Burns, Esq., Peter Jack, Esq., Hon. Jeremiah Northup, Prof. Lawson, and Alex. McLeod, Esq., \$500 each.

The following subscriptions have been made to the Building Fund :

Rev. Louis H. Jordan, \$1,000 ; John Doull, John S. McLean, R. Sedgwick, \$750 each ; Thomas Bayne, John McNab, Adam Burns, Hon. R. Boak, Dr. Avery, \$500 each ; President Forrest, \$375 ; James Forrest, \$300 ; Prof. John Johnson, Peter Jack, William Miller, Prof. Macdonald, \$250 each ; Prof. MacGregor, A. & W. Mackinlay, \$225 each ; Prof. Alexander, Judge Graham, \$200 each ; James Scott R. B. Seeton, Rev. John McMillan, Wm. Robertson, J. C. Mackintosh, H. McD. Henry, John Y. Payzant, Pearson, Morrison & Forbes, \$150 each ; J. J. Stewart, \$120 ; Rev. E. Scott Peter Ross, H. W. C. Boak, Pictou Academy, \$100 each ; Wm. B. Wallace, Arthur Drysdale, E. L. Newcombe, Alfred Costley, H. W. Barnes, Hugh McKenzie, \$75 each ; W. C. Silver, Graham Fraser, \$50 each ; E. McKay, \$30 ; J. M. Stewart, \$25 ; Rev. A. Falconer, \$20 ; J. H. Sinclair, Dr. J. Stewart, \$10 each. In all \$10,640.

The following donations have been made from time to time to meet current expenses :—

Hon. Sir William Young, \$500 ; John Doull, Esq., \$400 ; J. S. Maclean, Esq., \$300 ; J. Avery, Esq., M. D., Sir Sanford Fleming, Rev. Principal Grant, D. D., W. J. Stairs, Esq., Thos. Bayne, Esq., John Gibson, Esq., Rev. J. McMillan, D. D. and John McNab, Esq., \$200 each ; James Scott, Esq., and A. K. Mackinlay, Esq., \$180 each ; Hon. Robert Boak and the Medical Faculty, \$160 each ; Rev. President Forrest, D. D., Hon. A. G. Jones, and George Thomson, Esq., \$150 each ; A. Burns, Esq., \$125 ; J. J. Bremner, Esq., \$120 ; B. H. Collins, Esq., J. Donaldson, Esq., Prof. J. DeMille, Prof. J. Johnson, Prof. G. Lawson, Prof. J. Liechti, Alex. McLeod, Esq., Robt Morrow, Esq., Hon. Jeremiah Northup, Joseph Northup, Esq., T. A. Ritchie, Esq., Rev. Principal Ross, D. D., Ed. Smith, Esq., R. H. Skimmings, Esq., John Stairs, Esq., James Thomson, Esq., and Hon. Sir Charles Tupper, \$100 each ; J. W. Carmichael, Esq., C. D. Hunter, Esq., Major-General Laurie, Messrs Lawson, Harrington & Co., Prof. C. Macdonald, J. P. Mott, Esq., and Hon. Judge Ritchie, \$80 each ; G. P. Mitchell, Esq., and Hon. S. J. Shannon, \$60 each ; J. B. Duffus, Esq., R. W. Fraser, Esq., Peter Jack, Esq., and W. H. Neal, Esq., \$50 each ; with smaller sums amounting to \$1,349.

The following donations have been made from time to time for the purpose of providing scientific apparatus :—

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The Governors and Alumni are now endeavoring to raise an additional endowment, and also a special five years, fund, to meet current expenses. The following sums have been subscribed :—

For endowment—Thomas E. Fraser, \$600 ; James W. Carmichael, Prof. Macdonald Prof. Lawson, Prof. Weldon, Prof. W. Murray, \$500 each ; D. C. Fraser, M. P., J. M. Carmichael, George F. McKay, \$250 each ; Sinclair & Patterson, \$240 ; Hugh McKenzie, C. H. Cahan, \$200 each ; J. F. McLean, \$150 ; Israel Longworth, R. J. Turner, George Campbell, Mrs. J. R. Dickie, J. C. Mahon, H. T. Sutherland, Senator McKay, \$100 each ; C. A. Robson, \$75 ; Dr. Burns, \$60 ; Angus Chisholm, J. Heywood McGregor, P. A. McGregor, S. Fraser, J. H. McKay, W. R. Campbell, W. S. Muir, M. D., Martin Dickie, D. H. Smith, Angus Murray, F. A. Laurence, M. P. P., Wm Donald, W. H. Magee, Ph D., \$50 each ; Rev. Dr. McCulloch, Rev. T. Cumming, Rev. A. B. Dickie, Donald Grant, Harvey Graham, E. B. Smith, C. M. Dawson, G. Clish, J. P. Archibald, T. M. McLelan, \$25 each ; J. L. Jennison, \$20 ; H. W. J., \$10

For Current Expenses.—John Doull, and Adam Burns, \$2,500 each ; W. J. Stairs, and Hon. R. Boak, \$1,250 each ; Donald Keith, \$1,000 ; W. B. Ross, \$800 ; President Forrest, \$750 ; Prof. Johnson, T. Ritchie, B. Russell, Farquhar, Forrest & Co., Class of 1893, \$500 each ; J. D. MacGregor, and Prof. MacGregor, \$400 each ; Drysdale & McInnes, D. A. Campbell, M. D., Prof. D. A. Murray, \$300 each ; R. L. Borden, Rev. John McMillan, J. C. Mackintosh, \$250 each ; J. A. Turnbull, A. H. MacKay, LL. D., and Prof. Liechti, \$200 each ; George Campbell, M. D., \$150 ; W. Dennis, H. W. Barnes, W. & J. McDonald, \$125 each ; James Thompson, (Pictou), J. McG Stewart, J. H. McKenzie, A. K. McLean, W. D. Cameron, G. S. Campbell, \$100 each ; E. M. McDonald, R. L. Schwartz, \$75 each ; Rev. A. Rogers, \$60 ; C. M. Blanchard, Charles Morash,, Thomas Notting E, P. Allison, James D. McLean, Prof. A. G. Laird, Prof. J. E. Creighton, Victor Frazee, H. Mellish, T. J. Cahalane, Prof. A. S. Mackenzie, H. B. Stairs, G. Patterson, J. A. Mackinnon, G. E. Faulkner, \$50 each ; Rev. G. M. Grant, H. S. Congdon, A. M. Morrison, Andrew Cluney, Miss Ida G. McDonald, Miss Minna Liechti, W. S. Thompson, Hedley Ross, Edward Annand, George E. Ross, Rev. G. S. Carson, P. C. C. Mooney, V. J. Paton, C. W. Lane, A. Roberts, D. Stewart, M. D., R. Currie, H. V. Jennison, R. O. Bayer, \$25 each ; A. J. McDonald, \$20 ; J. A. Grierson, \$15 ; W. W. Walsh, Rev. J. W. McLennan, Rev. J. C. Herdman, Rev. J. A. McGlashen, \$10 each.

The following contributions to the Library, for the purchase of books and to meet current expenses, have been made since 1892 :—Prof. J. Seth (proceeds of course of lectures), \$245 ; Prof. A. MacMechan (proceeds of courses of lectures), \$573 ; Faculty of Arts, \$220 ; Alumni Association, \$251.62 ; English Class (proceeds of dramatic recitals), \$60.44 ; Friend of the College, \$75 ; H. McInnes, LL. B., \$40 ; Class of '94, \$40 ; Lecturers on Education, \$48 ; Philomathic Society, \$20 ; Class of '97, \$53 ; Class of '95 \$50 ; S. A. Morton, Esq., M. A., \$12 ; Class of '96 \$92 (to be increased to \$210) ; Class of '98 \$64 (to be increased to \$70) ; Class of '99, \$187 20 ; Three Friends, \$300.

Prof. E. Mackay has contributed \$500 for the refitting of the Chemical Laboratory.

For other benefactions, see under headings : Library, and Museum.

The following have been members of the Academic Staff in the past :

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## § I.—Courses of Instruction.

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#### First Latin Class.

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

Cicero, *Orations against Catiline* ; Virgil, *Aeneid*, Book VI. ; \*Cicero, *Pro Lege Manilia* ; \*Virgil, *Aeneid*, Book IV. Latin Prose Composition. Exercises in Sight Translation. Roman History to the battle of Actium.

*Books recommended* : Cicero, *Orations against Catiline*. (Wilkins's Macmillan, N. Y., 60 cents). Cicero, *Pro Lege Manilia*. (Wilkins's Macmillan, N. Y., 60 cents), or Cicero, *Selected Orations and Letters*. (Kelsey's, Allyn & Bacon, Boston, \$1.25). This book includes all the speeches to be read by the class and has the advantage of having the vowel-quantities indicated.] Virgil, *Aeneid*, Book VI. (Page's, Macmillan, N. Y., 40 cents). Virgil, *Aeneid*, Book IV. (Stephenson's, Macmillan, N. Y., 40 cents). Bradley's *Arnold's Latin Prose Composition*. Smith's *Smaller History of Rome*. (Harper's, N. Y.). Bennett's *Latin Grammar*. (Allyn & Bacon, Boston, 80 cents), or Allen and Greenough's, (Ginn, Boston, \$1.20).

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

Passages for translation at sight will be set in all examinations.

## Second Latin Class.

*Mondays, Wednesdays and Fridays, 11 A. M.—12 M.*

Livy, Book I; Horace, *Odes*, Books I and II; \*Horace, *Odes*, Books III and IV. Latin Prose Composition. Exercises in Sight Translation. Grecian History to the death of Alexander.

*Books recommended:* Livy, Book I, (Rolfe's [text with indicated quantities], Allyn & Bacon, Boston, 25 cents). Horace, *Odes*, (Page's, in Macmillan's Classical Series, each book 50 cents, or Books I—IV, in one volume, \$1.25). Bradley's Arnold's *Latin Prose Composition*. Smith's *Smaller History of Greece*, (Harpers, N. Y.).

## Third Latin Class.

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

Plautus, *Trinummus*; Juvenal, *Selected Satires*; Tacitus, *Germania*. \*Virgil, *Aeneid*, Books VII—IX. Latin Prose Composition. Exercises in Sight Translation.

*Books recommended:* Plautus, *Trinummus*, (Freeman & Soman's, Macmillan, 75 cents). Juvenal, (Hardy's, Macmillan, \$1.25). Tacitus, *Germania*, (Church & Brodribb's, Macmillan, 55 cents). Virgil, *Aeneid*, Books VII—IX, (Papillon & Haigh's, Macmillan, 90 cents).

## First Greek Class.

*Tuesdays and Thursdays, 10—11 A. M.*

Xenophon, *Hellenica*, Books I and II; \*Xenophon, *Cyropaedia*, Book I. Greek Prose Composition. Exercises in Sight Translation.

*Books recommended:* Xenophon, *Hellenica*, Books I and II, (Underhill's, Macmillan, 75 cents). Xenophon, *Cyropaedia*, Book I, (Bigg's, Macmillan, 50 cents). Fletcher and Nicholson's *Greek Prose Composition*. Sonnenschein's *Greek Accidence*, (published by Swan Sonnenschein & Co., London, 2s.), or Goodwin's *Greek Grammar*, (Ginn & Co., Boston, \$1.25).

## Second Greek Class.

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

Homer, *Odyssey*, Book IX; Lysias, *Orations*, (selected). Demosthenes, *Olynthiacs*. Greek Prose Composition. Exercises in Sight Translation.

*Books recommended:* Homer, *Odyssey*, Book IX, (Edward's, Macmillan, 60 cents). Lysias, *Select Orations*, (Bristol's, Allyn & Bacon, Boston, \$1.00). Demosthenes, *Olynthiacs*, (Abbott & Matheson's, Macmillan, N. Y., 75 cents). Fletcher & Nicholson's *Greek Prose Composition*.

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

Passages for translation at sight will be set in all examinations.

**Third Greek Class.**

*Tuesdays and Thursdays, 12 M.—1 P. M.*

Plato, *Apology and Crito*; Aristophanes, *The Clouds*; \*Thucydides, Book VII., Chapters 21-87. Greek Prose Composition. Exercises in Sight Translation.

*Books recommended:* Plato, *Apology and Crito*, (Wagner's, Geo. Bell & Sons, London, 2s. 6d). Aristophanes, *The Clouds*, (Merry's, Macmillan, 7s cents). Thucydides, Book VII, (Marchant's, Macmillan, \$1.10).

**Advanced Class.**

*Professor* ..... HOWARD MURRAY, B. A.

*Lecturer*..... J. W. LOGAN, B. A.

*Three or four times a week.*

In this class a portion of the Latin and Greek subjects prescribed for the special Course in Classics is read, and Prose Composition is regularly practised.

**II.—NEW TESTAMENT GREEK.**

The class and examinations in New Testament Greek, conducted by Professor R. A. FALCONER, M. A., B. 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.

**First Year Class.**

*Daily, 12.30 P. M.*

The work of this class consists of the interpretation of the Gospels, especially those of St. Luke and St. John. Lectures are also given on the language of the New Testament, the principles of Textual Criticism, Introduction to the Gospels, and the Jewish world at the time of Christ.

*Text-books:* Stevens and Burton: *Harmony of the Gospels*, or Huck: *Synopse der drei ersten Evangelien*. Hammond: *Textual Criticism of the New Testament*. Muirhead: *Times of Jesus Christ*. Simcox: *Language of the New Testament*.

*Books recommended:* F. Blass: *Grammar of N. T. Greek*. Burton: *New Testament Moods and Tenses*. Plummer on the Gospel of St. Luke. Westcott on the Gospel of St. John. Schürer: *The Jewish People in the Time of Christ*.

**III.—HEBREW.**

The class and examinations in Hebrew, conducted by Professor JOHN CURRIE, D. D., in the Halifax Theological College are recognized as qualifying for a degree. Similar classes in other Theological Colleges approved by the Faculty, are also recognized for the same purpose.

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

Passages for translation at sight will be set in all examinations.

## Junior Class.

Daily, 8.45—9.30 A. M.

*Text-book*: Davidson's Introductory Hebrew Grammar, with Progressive Exercises in Reading and Writing, (T. & T. Clarke, Edinburgh, 7s. 6d.).

The aim of the course is, by a thorough drill in paradigms, exercises in reading and writing, to impart a fair knowledge of inflection and syntax, and the ability to read at sight easy parts of the Hebrew Scriptures.

*Books recommended*: Gesenius' Hebrew Grammar, revised edition, Mitchell, (Bradley & Woodruff, Boston, \$3.). Green's Hebrew Grammar, new edition, unabridged (Wiley and Sons, New York, \$3.). Harper's Introductory Hebrew Method and Manual, latest edition, (American Publication Society of Hebrew, Chicago). Robinson's Gesenius' Hebrew Lexicon, (Houghton Mifflin & Co., Boston, \$6.).

## IV.—MODERN LANGUAGES.

(McLeod Professorship.)

Professor ..... JAMES LIECHTI, M. A.

## First French Class.

Tuesdays and Thursdays, 3—4 P. M.

Macmillan's *Progressive French Reader*, II year, (Fasnacht). Molière: *Le Bourgeois Gentilhomme*, (Macmillan & Co.). Scribe: *Bataille de Dames* (Macmillan & Co.). Exercises in Grammar and Composition, (Fasnacht's First Course by Macmillan & Co.).

Additional for a First-Class position: Saintine, *Picciola*, First 10 chapters; or Scribe: *Le verre d'eau*, or Octave Feuillet: *Le Roman d'un jeune homme pauvre*, First fifteen chapters.

*Text-books*: Brachet's Public School Elementary French Grammar. Other Text Books required will be announced at the opening of the Session.

## Second French Class.

Tuesdays and Thursdays, 2—3 P. M.

For 1899-1900. Molière: *Les Précieuses Ridicules*. Racine: *Athalie*, (Macmillan & Co.). Sight-reading: A Comedy by Scribe. Translation from English writers. Exercises in Syntax. Translation of unspecified passages from modern authors. French Composition.

For 1900-01. Molière: *L'Avare*. Racine: *Esther*. Sight-reading: A Comedy by Scribe, (Macmillan & Co.). Translation from English writers. Exercises in Syntax. Translation of unspecified passages from modern authors. French Composition.

Molière: *Misanthrope*, (Macmillan & Co.), and either Madame de Staël: *L'Allemagne*, First 20 chapters, or Molière: *Le Bourgeois Gentilhomme*, III and IV Acts, are prescribed for private reading to candidates for a First Class position.

*Text-books*: As in First Class. Outlines of the History of French Literature (Saintsbury's Primer).



## Third and Fourth French Classes.

## Tuesdays and Thursdays, 9—10 A. M.

For 1899-1900. Corneille: *Horace*. Racine: *Phèdre*. Sight-reading: A Comedy by Scribe. Translation from English writers. French Composition, 2nd course, by Eugène-Fasnacht (Macmillan & Co.). Translation of unspecified passages from modern authors.

For 1900-01. Molière: *Les femmes savantes*. Racine: *Iphigénie*. Corneille: *Le Cid*, (Macmillan & Co.). Sight-reading: A Comedy by Scribe. Translation from English writers. French Composition, 2nd course, by Eugène-Fasnacht (Macmillan & Co.). Translation of unspecified passages from modern authors.

*Text-books*: As in Second Class. Masson: *Littérature française*.

Molière: *Tartufe*, Acts I and II, (Macmillan & Co.), and either Victor Hugo: *Les Travailleurs de la Mer*, Chapters I to V (incl.) (Rivington's), or Madame de Staël: *Corinne ou l'Italie*, livres I to V (incl.), are prescribed for private reading to candidates for a First Class position. Fourth French: Molière: *L'Ecole des maris* and *L'Ecole des femmes*, (I and II Acts of each).

## First German Class.

## Mondays, Wednesdays and Fridays, 3—4 P. M.

Buchheim: *German Reader*, Part II. Schiller: *Wilhelm Tell*, (Macmillan & Co.). Additional for a First Class position: Gustav Freytag: *Die Journalisten*, Act I, (Macmillan & Co.), or Helene Stöhl: *Unter dem Christbaum*, (D. C. Heath & Co.), or Schiller: *Wilhelm Tell*, II and III Acts. Exercises in Grammar and Composition. Elementary German Prose Composition, by E. S. Buchheim, (Clarendon Press).

*Text Books*: Joynes-Meissner's German Grammar, (D. C. Heath & Co.). Other Text Books required will be announced at the opening of the Session.

## Second German Class.

## Mondays, Wednesdays and Fridays, 2—3 P. M.

For 1899-1900. Goethe: *Hermann und Dorothea*, (Clarendon Press). Lessing: *Minna von Barnhelm*, (Macmillan & Co.). Sight-reading from Helene Stöhl's: *Unter dem Christbaum*, (D. C. Heath & Co.). Translations from English writers. Original Compositions. Translation of unspecified passages from modern authors.

For 1900-01. Goethe: *Egmont*. Schiller: *Maria Stuart*, (Macmillan & Co.). Sight-reading from Helene Stöhl's: *Unter dem Christbaum*, (D. C. Heath & Co.). Translation from English writers. Original Compositions. Translation of unspecified passages from modern authors. German Prose Composition to be announced.

*Text Books*: As in First Class. Critical outline of the Literature of Germany by Alb. Selss, Ph. D. (Longmans, Green & Co.).

Schiller : *Jungfrau von Orleans*, Prolog. and Act I. and either Heine : *Die Harzreise* (Macmillan & Co.), or Schiller : *Historische Skizzen* (Clarendon Press), are prescribed for private reading to candidates for a First Class position.

#### Third German Class.

*Mondays, Wednesdays and Fridays, 9—10 A. M.*

For 1899-1900. Lessing : *Minna von Barnhelm* (Macmillan & Co.). Goethe : *Iphigenie auf Tauris*. Prose composition. Translation of unspecified passages from modern authors.

For 1900-1901. Lessing : *Nathan der Weise* (Macmillan & Co.). Goethe : *Götz von Berlichingen* (Macmillan & Co.). Prose composition. Translation of unspecified passages from modern authors.

Schiller : *Wallenstein's Tod*, Act I, 4th Scene ; Act II, 2nd and 3rd Scenes ; Act III, 18th Scene ; (George Bell & Sons) and either Goethe : *Faust : Prolog im Himmel*, and first three scenes of Part I, (by Jane Lee : Macmillan & Co.), or Heine : *Harzreise* (Macmillan & Co.) are prescribed for private reading to candidates for a First Class position.

*Text Books :* As in Second Class.

#### Fourth German Class.

*Twice a week.*

Schiller : *Lyrische Gedichte*, Goethe : *Faust*, Part I, (by Jane Lee : Macmillan & Co.). Prose composition. Translation of unspecified passages from modern authors. Selss's German Literature.

Private reading for a First Class position. Schiller : *Wallenstein's Lager*, and Lessing : *Sara Sampson*, or Schiller : *Geisterseher*.

#### Advanced German Class.

*Twice a week.*

The subjects studied in this class will be those prescribed for the special course of English and German (§ viii (8)). The course will extend over two years.

1899-1900. Middle High German : Grammar (Wright's Middle High German Primer). Selections from Wackernagel : *Kleineres Altdeutsches Lesebuch*. Sections from authors of the 18th century. Prose composition.

1900-1901. Middle High German ; Grammar (Paul's Grammar). Selections from Wackernagel : *Kleineres Altdeutsches Lesebuch*. Selections from Swiss and Plattdeustch dialect literature. Selections from authors of 16th and 17th centuries. Prose composition.

Other text-books will be announced at the opening of the Session.

## V.—ENGLISH LANGUAGE AND LITERATURE.

(George Munro Professorship.)

Professor.....ARCHIBALD MACMECHAN, 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. The essential facts of Historical English Grammar are taught by means of lectures in the Second Year. In Composition, practice precedes theory, and exercises in the class-room take the place of "essays" compiled at home; the writing of reports forms part of this work. In the Advanced Class the aim of the instruction is to acquaint the student with the grammar of Old and Middle English, and to widen his knowledge of Elizabethan literature.

## First Class.

Tuesdays and Thursdays, 12—1 P. M.

COMPOSITION.—Christmas Term; imitative exercises in the construction of narrative and descriptive paragraphs. Spring Term; exercises based chiefly on personal experience.

LITERATURE.—Eighteenth Century: Prose. Addison: *Papers contributed to "The Spectator."* Johnson: *Life of Pope.* (Macaulay: *Samuel Johnson*). Poetry. Dryden: *MacFlecknoe, St. Cecilia's Day, Alexander's Feast.* Pope: *Rape of the Lock.* Gray: *Elegy in a Country Church-yard.* Goldsmith: *Traveller, 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.* Pope: *Essay on Man.* Johnson: *Lives of Dryden, Addison and Gray.*

Two reports on private reading, assigned by the instructor, are required from each student.

*Books recommended:* Hale: *Longer English Poems* (containing all the poetry read in class); Addison, ed. T. Arnold; Clarendon Press Series); Johnson: *Six Chief Lives*; ed. M. Arnold.

PARALLEL READING.—As a preparation for this course, the student is recommended to read the following works:—Thackeray: *English Humorists, Congreve and Addison.* *The History of Henry Esmond*, (bk. ii, cap. xi. at least). Macaulay, *The Comic Dramatists of the Restoration, Addison.*

## Second Class.

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

COMPOSITION.—Lectures on the Principles of Narration, Description and Exposition. Exercises.

LITERATURE.—Elizabethan, Shakspeare: *Henry IV., Pt. I, Lear, The Merchant of Venice*. Milton, *Comus, L'Allegro, Il Penseroso, Lycidas, Sonnets, Paradise Lost, Bks. I, II*. Lectures.

ENGLISH LANGUAGE.—A short course of Lectures on the History of the English Language, at the end of the Spring Term.

For reference. Saintsbury: *History of Elizabethan Literature*.

A report on private reading assigned by the instructor, is required from each student. Candidates for Distinction are required to present a second report.

Candidates for Class Distinction will be examined in the following plays, which are not read in class: *King John, Hamlet, As You Like It*.

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

#### Third Class.

Tuesdays and Thursdays, 10—11 A. M.

LITERATURE.—Middle English and Pre-Shakspearean. Chaucer: *Prologue, Knightes Tale, Nonne Prestes Tale*. Sweet's *Middle English Primer, II*. Spencer: *Færie Queene, Bks. I, II*. Marlowe: *Dr. Faustus*. Lectures.

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

For Distinction. Chaucer: *Minor Poems, The Prioress's Tale, Sir Topas, The Monk's Tale, The Squire's Tale*.

#### Fourth Class.

Tuesdays and Thursdays, 4—5 P. M.

LITERATURE.—Nineteenth Century. Scott; *Old Mortality, Marmion*. Byron: *Poems* selected and edited by Matthew Arnold. Wordsworth: ed. Dowden (*Athenæum Press Series*). Tennyson: *The Lady of Shalott, Oenone, Lotus Eaters, A Dream of Fair Women, Morte d'Arthur, Dora, Sir Galahad, The Lord of Burleigh, Ulysses, Ode on the Duke of Wellington*. Browning: *My Last Duchess, Lost Leader, Andrea del Sarto, The Bishop Orders his Tomb, Epistle of Karshish, The Italian in England*. Ruskin: *Sesame, and Lilies*. Carlyle: *Sartor Resartus*: ed. MacMechan, (*Athenæum Press Series*).

History of Literature. Saintsbury: *History of Nineteenth Century Literature*. Herford: *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 "The 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 University Library.

**Advanced Class.**

*Three times a week.*

Development of English Language and Literature to the year 1300, with special study of selected works in Elizabethan drama and prose. (§viii, 6).

**VI.—HISTORY AND POLITICAL ECONOMY.**

*(George Munro Professorship.)*

Professor.....REV. PRESIDENT FORREST.

**Junior History Class.**

*Mondays, Wednesdays and Fridays, 11 A. M.—12 M.*

Mediaeval History and Modern History to 1555.

The class work will be conducted by means of lectures and examinations on prescribed reading. A detailed syllabus with references and passages prescribed for reading will be given to students on the opening of the class.

Candidates for First Class Distinction will be examined on Hallam's Middle Ages, Bryce's Holy Roman Empire, and Introductory Sections of Robertson's Charles V.

*Book recommended:* Gibbon's Decline and Fall of the Roman Empire; Hallam's Middle Ages; Bryce's Holy Roman Empire; Irving's Mahomet and His Successors; Guizot's History of Civilization; Michaud's History of the Crusades; Robertson's Charles V.; Stubb's Constitutional History of England; Labberton's Historical Atlas.

**Senior History Class.**

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

Modern History from 1555.

The class work will be conducted by means of lectures and examinations on prescribed reading. In the lectures, books of reference will be named and select portions specified for reading.

Disputed points will be marked out for special study and students required to examine authorities and weigh conflicting opinions, and thus learn to study history critically for themselves.

Candidates for First Class Distinction will be examined on Green and Guizot, and a few chapters to be specified in other works.

*Books recommended:* Green's England, vol. v.; Guizot's France (Masson's Abridgement); Menzel's Germany; Motley's Dutch Republic; Bancroft's United States; McMaster's History of the people of the United States; Parkman's France and England in North America; Labberton's Historical Atlas.

**Advanced History Class.***Once a week.*

English History from 1603 to 1688

The work of this class will be conducted by means of lectures and examinations on reading prescribed from Clarendon, Gardiner, Green, Hallam, Ranke, Lingard and other authorities.

This class is intended especially for undergraduates taking the Special Course in English and English History.

**Political Economy Class.***Tuesdays and Thursday, 10-11 A. M.*

The work of this class will be conducted by means of lectures and examinations on prescribed reading.

The lectures will generally follow the order of arrangement of Mills' Principles of Political Economy. 1.—THE NATURE WEALTH. Analysis of fundamental conceptions of wealth, &c. 2.—PRODUCTION OF WEALTH: Labor, Capital, Population and their relations to each other. 3.—DISTRIBUTION OF WEALTH: Wages, Profits, Rent, Socialism, Labor Unions, Land Tenure. 4.—EXCHANGE: Value Money, Banking. 5. RELATIONS OF GOVERNMENT TO TRADE AND INDUSTRY: Tariffs, Taxation.

Particular attention will be given to the problems of the day. Protection and Free Trade, Trade Unions, Combines, Bimetallism. Each student is required to read the whole of Mill's Principles together with prescribed passages from leading economists and current literature on the subjects. Weekly examinations will be held on the prescribed reading.

Candidates for First Class Distinction will be examined on additional work, which will be announced at the beginning of the Session.

*Text Book:* Mill's Principles of Political Economy.

**Advanced Political Economy Class.***Twice a week.*

The work of this class will consist of lectures, entering into the Principles of Political Economy more fully than in the ordinary class, with examinations on reading prescribed in the works of leading writers on the subject.

**VII.—CONSTITUTIONAL LAW AND CONSTITUTIONAL HISTORY.**

The classes in Constitutional Law and Constitutional History, conducted by Prof. Weldon in the Faculty of Law, and the examination conducted in these subjects by the Faculty of Law, are recognized as qualifying for a degree.

## VIII.—CONTRACTS.

The class in Contracts, conducted by Professor Russell in the Faculty of Law, and the examinations conducted in this subject by the Faculty of Law, are recognized as qualifying for a degree.

## IX.—PHILOSOPHY.

(George Munro Professorship.)

Professor.....WALTER C. MURRAY, M. A.

## Junior Philosophy.

Tuesdays and Thursdays, 12—1 P. M., Fridays, 4—5 P. M.

The work of this class will consist of two courses of lectures, one on Logic, the other on Psychology, with essays, discussions, and oral examinations.

The work in the course on Logic will be selected so as to afford the best possible mental training. In the Psychological course, experiments will be introduced as much as possible to supply a basis for the theory and for the purpose of illustration. Especial attention will also be given to the connection between Psychology and Educational methods.

*Text Books:* Creighton: *Introductory Logic*; Mill: *Logic*; Titchener: *An Outline of Psychology* or *Primer of Psychology*.

*Books recommended:* Fowler's or Jevons' *Logic*, James' *Psychology*, Reading for Distinction—Berkeley: *Theory of Vision, Divine Visual Language, Principles of Human Knowledge*. (Fraser's Selections.)

## Senior Philosophy.

Mondays and Wednesdays, 10—11 A. M.

For 1899-1900. This course of lectures, which is intended to serve as an introduction to Metaphysics, will be based on Paulsen's *Introduction to Philosophy*.

*Books recommended:* Hibben: *Problems of Philosophy*; Kulpe: *Introduction to Philosophy*; Watson: *An Outline of Philosophy and Christianity and Idealism*, Part II; Lotze: *Outlines of Metaphysics*; Royce: *Religious Aspect of Philosophy*, Book II; Caird: *Metaphysics (Encyc. Brit or Essays on Literature and Philosophy)*, Vol. II.

Reading for Distinction: Pearson: *Grammar of Science*.  
Subject for Essay: Descartes: *Method*.

## Modern Philosophy.

Mondays and Wednesdays, 10—11 A. M.

For 1900-1. After a preliminary sketch of the principal problems of Metaphysics, the development of modern Philosophy from Locke will be studied in Locke's *Essay*, Berkeley's *Principles of Knowledge and Siris*, Hume's *Treatise*, Reid's *Inquiry*, and Kant's *Prolegomena*.

*Books:* Seth (A) *Scottish Philosophy*; Locke: *Essay*. (Fraser's Edition or Ward, Locke & Co.'s.) Berkeley: *Selections* by Fraser; Hume: *Treatise*, (Edited by Green & Grosse, or Selby-Bigge's Edition); Reid: *Works* (ed. by Hamilton), and *Inquiry* (Sneath's Edition); Kant: *Prolegomena* translated by Mahaffy & Bernard; Wenley: *Outlines of Kant's Critique*; Blackwood's Philosophical Classics: Falckenberg's or Weber's or Erdmann's, or Windelband's, or Ueberweg's, or Schwegler's *History of Philosophy*.

## Greek Philosophy.

Mondays and Fridays, 3—4 P. M.

For 1900-1. In this course an introductory sketch of the development of Greek Philosophy from Thales is followed by a critical study of Plato's *Apology*, *Crito*, *Phædo*, *Republic*, *Theætetus*; and Aristotle's *Ethics*.

*Text Books*: Ferrier: *Lectures on Early Greek Philosophy*; Church's *Translation of Apology, Crito and Phædo* (Golden Treasury Series); Davies and Vaughan's *Translation of Republic*, (G. T. S.) Aristotle's *Ethics* (The Scott Library, or Peters' Translation.)

*Books recommended*: Zeller; *Greek Philosophy*; Burnet: *Early Greek Philosophy*; Bosanquet: *Companion to Plato's Republic*; Nettleship: *Philosophical Lectures and Remains*; Jowett's *Translation of Plato's Dialogues*; Pater: *Plato and Platonism*; Wallace: *Epicureanism*; Hegel: *History of Philosophy*.

Reading for Distinction: Green: *Prolegomena to Ethics*, Bks. III. and IV.

## Moral Philosophy.

Mondays and Fridays, 3—4 P. M.

For 1899-1900. This course of lectures attempts a systematic presentation of the Principles of Moral Philosophy. The divisions of the subject are taken up in the following order:—

The Moral Ideal. The Metaphysic of Morality. The Moral Life. Moral Institutions.

*Text Book*: Seth (J.): *Ethical Principles*.

*Books recommended*: Dewey: *Outlines of Ethics, Study of Ethics*; Muirhead: *Elements of Ethics*; Mackenzie: *Manual of Ethics*; Clarke Murray: *Introduction to Ethics*; D'Arcy: *Short Studies of Ethics*; Sidgwick: *Methods of Ethics*; Green: *Lectures on Political Obligation* (edited by Bosanquet); Mill: *Utilitarianism*; Spencer: *Data of Ethics*.

Reading for Distinction: Green: *Prolegomena to Ethics*, Bks. I & II  
Subject for Essay: Kidd: *Social Evolution*, or Haycraft: *Darwinism and Race Progress*, (Sonnenschein).

## Advanced Philosophy.

Tuesdays and Thursdays, 3—4 P. M.

For 1899-1900, the subject of this course is Kant's Philosophy. The *Prolegomena*, *Critiques of Pure Reason*, *of Practical Reason and of Judgment*, will be studied.

*Translations recommended*: Watson's *Selections*; Mahaffy and Bernard: *Prolegomena*; Max Müller *Critique of Pure Reason*; Abbott: *Theory of Ethics*; Bernard: *Critique of Judgment*.

*Commentaries and Expositions recommended*: Stirling's *Text-Book to Kant*; Wallace: *Kant*; Fischer: *Kant*; Caird: *Critical Philosophy*; Watson: *Kant and his English Critics*; and Comte, Mill and Spencer or *An Outline of Philosophy*. Adamson: *Philosophy of Kant*; Mahaffy and Bernard: *Kritik of Pure Reason defended and explained*; Green: *Philosophical Works, Vol. II*.

For 1898-99. A sketch of the development of Philosophy from Kant to Hegel, and a critical study of Hegel's *Logic*.

*Books recommended*: Wallace: *The Logic of Hegel* Translation and *Prolegomena*; Stirling: *Secret of Hegel*; Seth: *From Kant to Hegel*, and *Hegelianism and Personality*; McTaggart: *Studies in the Hegelian Dialect*; Caird: *Hegel*; (Philos. Classics); Harris: *Hegel's Logic* (Griggs Philosophical Classics).



## X.—EDUCATION.

The class in the History and Theory of Education conducted by Prof. Walter C. Murray and Mr. G. J. Miller in the Faculty of Science, and the examinations of the Faculty of Science, are recognized as qualifying for a degree. (See Fac. Science.)

## XI.—MATHEMATICS.

Professor.....C. MACDONALD, M. A.

## Junior Class.

Daily, 11 A. M.—12 M.

ALGEBRA.—Involution, Evolution, Theory of Indices, Equations of the First and of the Second Degree revised. Discussion of Imaginary Quantities and of  $\sqrt{-1}$ : Theory of Quadratic Equations; Proportion, Inequalities, Indeterminate Equations, Variation, Progressions, Theory of Notation; Elements of Determinants; Selected Propositions in the Theory of Equations, with Horner's method of approximating the roots of an Equation of a Degree higher than the Second.

GEOMETRY.—First, Second, and Third Books of Euclid revised, Fourth Book, Definitions of the Fifth, and the Sixth Book, with Geometrical Exercises and practical applications.

After the beginning of January attendance at the Class on Wednesday will be *optional*, except for those who are trying for First or Second Class distinction. But the Professor reserves to himself the right of excluding any whom he may have judged unequal to the work of the Wednesday Class.

*Books recommended:* Todhunter's, or Deighton's, or Hall & Stevens' (George Bell & Sons), Elements of Euclid. Todhunter's Algebra, or (best) Hall & Knight's Higher Algebra. (The latter book is recommended to those who wish to pursue advanced work. School Algebras are scarcely sufficient for the course.)

## Senior Class.

Daily, 10—11 A. M.

The daily meeting of this Class is subject to the following explanations:

After the Christmas Examinations, the class will be resolved into two Divisions, a Lower and a Higher.

The Lower or Ordinary Division will meet on four or three days a week, according as the general progress of the Class may demand. The Higher Division will meet on the remainder of the five days a week. Fitness to enter the Higher Division is determined by the Professor, according to the general standing and previous record of the student.

In the Lower or Ordinary Division of the Class the subjects of study are—

GEOMETRY.—Sixth Book of Euclid revised; Cockshott & Walter's Conic Sections; the Parabola and part of the Ellipse; Easy Geometrical Exercises with practical applications; 21 Propositions of the

Eleventh Book of Euclid; Modern Geometry, supplementary to the Six Books of Euclid.

TRIGONOMETRY.—Analytical Plane, as far as, but exclusive of, DeMoivre's Theorem. The use of Logarithms, and of the chief Mathematical Tables. Solution of Plane Triangles; Mensuration of Heights and Distances; Elementary Problems in Navigation.

ALGEBRA.—Permutations and Combinations; uses of the Binomial Theorem; Properties of Logarithms; Compound Interest and Annuities; Elements of the Doctrine of Chances, should there be time for the subject.

In the Higher Division the subjects are—

GEOMETRY.—Parabola, Ellipse, and Modern Extension of Euclid.

TRIGONOMETRY.—As in the Lower Division, with Extensions; DeMoivre's Theorem, with Higher Angular Analysis; Spherical Trigonometry, as far as the solution of Right-angled Triangles, with application to easy Astronomical problems.

ALGEBRA.—Investigations connected with the subjects studied in the Lower Division, such as, Logarithmic Series, Indeterminate Co-efficients, Partial Fractions, &c., with illustrations and examples of a more difficult kind. For First or Second Class at the Examinations, acquaintance with the subjects treated in this Division is necessary.

*Books recommended:* Algebras—Todhunter's or Hall & Knight's (best) † Locke's Plane Trigonometry; Cockshott and Walters' Geometrical Conics (Macmillan & Co.); Chambers' Logarithmic, etc., Tables. For Higher Division: Todhunter's Spherical Trigonometry.

#### Advanced Class.

There are two Divisions in this Class:

The First Division meets three times a week.\* Subjects: Analytical Trigonometry, commencing with the application of DeMoivre's Theorem; Analytical Geometry; Spherical Trigonometry; Theory of Equations; Differential Calculus.

*Books recommended:* Locke's Plane Trigonometry, Vol. II.; C. Smith's and Todhunter's Conic Sections; Todhunter's Theory of Equations; Williamson's Differential Calculus; Todhunter's Spherical Trigonometry. Any standard works on the subjects treated may, however, be used.

The Second Division meets twice a week.† Subjects: Analytical Geometry; Spherical Trigonometry; Theory of Equations; Differential Calculus; Integral Calculus, with Differential Equations; Application of these to Physics, Physical Astronomy, etc.

*Books recommended:* The same as for the First Division, with the addition of Williamson's Integral Calculus. Also Tait & Steele's Dynamics of a Particle; Todhunter's Analytical Statics; D. A. Murray's Differential Equations, (Macmillan & Co)

## XII.—THEORY OF MUSIC.

The classes in the Theory of Music, conducted in the Halifax Conservatory of Music by Mr. C. H. Porter, Director, and Mr. Newman Athoe, and the examinations of the Conservatory in the

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\* The hour of meeting on Fridays may possibly be changed at the opening of the session.

† An extra hour for some part of the session may be required.

‡ This work is published in two volumes. The first of these—"A Treatise on Elementary Trigonometry"—is sufficient for the ordinary class.

subjects of these classes, are recognized as qualifying for the B. A. and B. L. degrees. In the case of each class, attendance must include at least two lessons per week from the opening to the closing of lectures in this Faculty.

The subject studied in the First Class is Harmony in not more than four parts.

The subjects of the Second Class are : Harmony in not more than five parts ; Simple Counterpoint in two or three parts ; Canon in two parts ; Imitation and Fugue in not more than three parts ; Form,—Elementary forms, Phrases and Periods, closed and open Forms.

Information as to fees, etc., may be obtained on application to the Secretary of the Conservatory.

### XIII.—PHYSICS.

(*George Munro Professorship.*)

Professor.....J. G. MACGREGOR, D. SC.

#### Junior Physics Class.

*Tuesdays and Thursdays, 11 A. M.—12 M., Wednesdays,  
3—4 P. M.*

The subjects of the lectures will be as follows :—The elements of dynamics ; The properties of solid and fluid bodies ; Heat ; Electricity and Magnetism ; Light and Radiant Heat ; and Sound. These subjects will be treated in an elementary manner, the mathematical knowledge assumed being no greater than can be acquired in the Junior Class. The lectures will be conducted largely on historical lines and will be illustrated by qualitative and quantitative experiments.

Members of the class are recommended to read Knott's Physics (W. & R. Chambers, Edinburgh, 7/6) in connection with the lectures. Those who aim at passing merely, will be examined in those subjects only which are fully discussed in class. Those who aim at Distinction will be expected to acquire a more thorough knowledge of Dynamics and to consult the text-book and other works recommended by the lecturer on all subjects that may be referred to in class.

Students are expected both to appear at special examinations, usually held at unspecified dates, and to hand in problem papers for correction and criticism.

The following books are recommended for frequent reference :—Daniell's Principles of Physics (Macmillan & Co.) ; Barker's Physics—Advanced Course (H. Holt & Co.) ; Anthony and Bracket's Text-Book of Physics, revised by Magie (J. Wiley & Sons) ; Nichols and Franklin's Elements of Physics (The Macmillan Co.) ; Hastings and Beach's General Physics (Ginn & Co.).

#### Senior Physics Class.

*Mondays and Wednesdays, 10—11 A. M.*

The subjects studied in this class consist of departments of Physics which are of special importance on account of their industrial applications. They will be treated as thoroughly as is consistent with the employment of elementary mathematical methods, no greater knowledge of Mathematics being assumed than can be acquired in the Senior Class.

Students who aim at passing merely will be examined in those portions only of the subject which are discussed in class. Those who aim at Distinction will be expected not only to acquire considerable power of applying principles in the solution of problems, but also to study privately portions of the subject not fully treated in class.

The course being too extensive to be completed in a single session, different portions will be taken up in alternate years, as follows :

In 1899-1900.—Heat, including a short discussion of Heat Engines, and Electricity and Magnetism, including a discussion of dynamo-electric machines, a knowledge of the elements of Heat and Electricity such as may be acquired in the Junior Physics Class being assumed. Students are recommended to read Maxwell's Theory of Heat (Longmans & Co.), and Foster and Atkinson's Electricity and Magnetism (founded on Joubert's Treatise, pub. by Longmans & Co.), in connection with the lectures. Other works recommended for reference are Tait's Heat (Macmillan & Co.), Wright's Heat (Longmans & Co.), J. J. Thomson's Electricity and Magnetism (Camb. Univ. Press), Ewing's Steam Engine and other Heat Engines (Camb. Univ. Press), and S. P. Thompson's Dynamo-electric Machinery (Spon.)

In 1900-01.—Dynamics of solids and fluids.—Students are recommended to read MacGregor's Kinematics and Dynamics (Macmillan & Co.) in connection with the lectures. They will be referred to other works for consultation.

#### Advanced Mathematical Physics Class.

*Mondays and Wednesdays, 11 A. M.—12. M.*

The object of this class is to give students an introduction to the application of the Higher Mathematics to the study of physical problems. They will therefore be assumed to have a sufficient knowledge of Analytical Geometry and the Differential and Integral Calculus. The subjects to be discussed in the next two years are as follows :

In 1899-1900.—Kinematics of a point, of a rigid system, and of deformable systems ; Dynamics (including Statics) of a particle, of systems of particles (including strings), of extended bodies, of rigid bodies, of elastic solids, and of fluids.

In 1900-1901.—Thermodynamics and Electrodynamics (including Electrostatics.)

*Books of reference :* Tait and Steele's Dynamics of a Particle (Macmillan & Co.), Todhunter's Analytical Statics (Macmillan & Co.), Aldis's Rigid Dynamics (Deighton, Bell & Co.), Besant's Hydromechanics (Deighton, Bell & Co.), Tait's Sketch of Thermodynamics (Douglas, Edinburgh), Baynes' Thermodynamics (Clarendon Press), Emtage's Mathematical Theory of Electricity and Magnetism (Clarendon Press) and Mascart and Joubert's Electricity and Magnetism, Vol. I (De la Rue & Co., London.)

#### Advanced Experimental Physics Class.

*At least once a week.*

The subjects studied will be (a) physical experimental methods and the elimination of errors, this section of the class work being conducted mainly by private reading, under the Professor's supervision, of original papers by Faraday, Joule, and Kelvin ; (b) the treatment of observations, including graphical methods and the

method of least squares, and the influence of errors of observation on results; (*c*) the relation of theory to experimental research, illustrated by sketches of one or more of the following:—the kinetic theory of gases, the theory of solution and of electrolysis, the wave theory of light.

*Books of reference:* Faraday's Experimental Researches in Electricity, Vol. I. (Quaritch); Joule's Scientific Papers, Vol. I. (Taylor & Francis); Lord Kelvin's Mathematical and Physical Papers, Vol. II. (Camb. Univ. Press); Merriman's Text-book of Least Squares (John Wiley & Sons); Johnson's Theory of Errors and Method of Least Squares (J. Wiley & Sons); Holman's Precision of Measurements (John Wiley & Sons); Whetham's Solution and Electrolysis (Camb. Univ. Press); Nichols & Franklin's Elements of Physics, Vol. on Light and Sound, (Macmillan).

#### Practical Physics Class.

(At least five hours a week.)

The work of this class will consist of the experimental investigation of simple physical laws, and in connection therewith, the determination of physical constants, such as density, specific heat, electromotive force, electrical resistance, etc.

Students will be required to prepare formal papers on the investigations made, describing the methods used and the results obtained, and discussing the degree of accuracy of the results. Their standing in the Pass and Distinction lists will depend mainly on the number and quality of these papers.

Members of the class who wish to become science teachers will be allowed to devote part of their time to acquiring facility in devising and executing illustrative experiments of a qualitative and quantitative kind, with the simple forms of apparatus usually available in schools.

*Books recommended for reference:* Glazebrook and Shaw's Practical Physics (Longmans, Green & Co.); Stewart & Gee's Elementary Practical Physics (Macmillan & Co.); Ayrton's Practical Electricity (Cassell & Co.); Kohlrausch's Physical Measurements (J. & A. Churchill); Nichols' Laboratory Manual of Physics and Applied Electricity (Macmillan & Co.); Ostwald's Physico-Chemical Measurements (Macmillan & Co.); and Threlfall's Laboratory Arts (Macmillan & Co).

### XIV.—CHEMISTRY.

(McLeod Professorship.)

Professor.....E. MACKAY, PH. D.

#### Junior Chemistry Class.

*Mondays, Wednesdays and Fridays, 9--10 A. M.*

The lectures in this class deal in an elementary way with the principles of general chemistry. In the earlier part of the course the chemistry of fire, of water and of air is studied, the order of historical development being followed as nearly as possible; and when some acquaintance with chemical facts has thus been gained, the fundamental laws of combination are taken up and the atomic theory and chemical formulæ are introduced. This is followed by a study of chlorine and carbon and of the general properties of acids and bases. The classification of the elements is then discussed, and thereafter the principal remaining elements are studied, each in connection with the group of elements in the periodic system to which it

belongs. The lectures are illustrated as fully as possible by experiments. Examinations, oral or written, are held fortnightly, and occasional written exercises are required.

Students aiming at distinction are required to devote at least three hours per week to laboratory work. The laboratory course is designed to make the student familiar with ordinary laboratory operations and to give him a practical acquaintance with the elementary facts of chemistry. Several common inorganic substances are prepared and studied; simple quantitative experiments are performed; and some time is devoted to elementary work in qualitative analysis.

*Books recommended:* Remsen's *Introduction to the Study of Chemistry*, (Macmillan & Co.), or Storer and Lindsay's *Manual of Chemistry*, (American Book Co.). In the laboratory, Remsen's *Introduction to the Study of Chemistry* is used.

#### Senior Chemistry Class.

*Tuesdays and Thursdays, 9—10 A. M.*

The lectures in this class are for the first few weeks devoted to a fuller discussion of some of the principles of inorganic chemistry than is given in the Junior Class. The constitution of acids, bases and salts; the determination of atomic and molecular weights; and the principal reactions used in qualitative analysis are the chief topics taken up. The remainder of the year is devoted to organic chemistry. Special attention is given in this part of the course to a study of the experimental evidence upon which the constitutional formulæ of organic compounds are based.

Students aiming at distinction are required to devote at least three hours weekly to laboratory work. This will include a fuller course in qualitative analysis than is given in the Junior Class, and, in addition, the preparation of pure laboratory reagents and of typical inorganic and organic substances.

*Books recommended:* In organic chemistry, Remsen's *Compounds of Carbon* (Macmillan & Co.) In inorganic chemistry references are given to text-books in the library.

#### Advanced Chemistry Class.

*One hour weekly.*

The subjects of study in this class are (a) Methods of quantitative analysis; (b) History of chemical theory; (c) Special topics in organic and inorganic chemistry in connection with the reading prescribed in the Special Course in Chemistry and Chemical Physics.

Different portions of this work are taken up in alternate years. The portions to be studied in 1899-1900 will be announced at the beginning of the session.

#### Practical Chemistry Class.

*At least five hours weekly.*

JUNIOR COURSE.—This course is intended for students taking their first laboratory work. The course will include the preparation and study of several common inorganic substances and a study of the reactions of the principal elements. Qualitative analysis and blow-pipe reactions are taken up and a few simple quantitative experiments are performed. Remsen's *Introduction to the Study of Chemistry* is used as a laboratory manual.

**SENIOR COURSE.**—This course is open to students who have taken the Junior Course or its equivalent. The first part of the year is devoted to less elementary work in qualitative analysis than that in the Junior Course, and to the preparation of pure laboratory reagents and of typical inorganic compounds. The remainder of the year is occupied with the preparation and study of typical organic compounds. Members of this class who are not taking, or who have not previously taken, the Senior Chemistry Class may substitute work in quantitative analysis for that in organic chemistry.

#### Advanced Practical Chemistry Class.

Courses are provided in general quantitative analysis, and, so far as the resources of the laboratory permit, in its special branches.

**QUANTITATIVE ANALYSIS.**—The work in this course is designed to illustrate typical methods in quantitative analysis. It will include the quantitative estimation of chlorine, iodine, sulphur, nitrogen, phosphorus, silicon, carbon, hydrogen, and of the metals silver, copper, iron, manganese, aluminum, calcium and potassium. Volumetric methods, as well as gravimetric, are employed whenever applicable.

**TECHNICAL COURSES.**—Students having a sufficient training in general quantitative analysis may undertake work in one or more of the following special branches of analysis: (a) Assay of Ores. Ores of the principal metals are assayed in the wet way. Ores of lead and silver are subjected to a furnace assay and the results checked by analysis. (b) Analysis of foods or poisons. (c) Analysis of soils. (d) Analysis of potable waters. (e) Gas analysis.

Students taking Practical Chemistry are admitted to that one of the preceding courses for which their previous work has fitted them. All members of practical classes are required to keep a detailed record of their experiments. The character of this record is a factor in determining the standing of a student in the class lists.

The chemical laboratory accommodates about eighty students. A reference library is placed in the laboratory for the use of students doing analytical work.

The laboratory is open daily, Saturdays excepted, from 10 a. m. to 1 p. m., and from 3 to 5 p. m., on Tuesdays, Wednesdays and Thursdays.

#### XV.—BOTANY.

The class in Botany, conducted by the Faculty of Science, and the examinations, conducted by the Faculty of Science in this subject, are recognized as qualifying for a degree. See Faculty of Science § xxv.

#### XVI.—ZOOLOGY.

The class in Zoology, conducted by Dr. A. Halliday of the Faculty of Science and the examinations conducted by the Faculty of Science are recognized as qualifying for a degree. See Faculty of Science.

#### XVII.—PHYSIOLOGY.

The University provides no instruction in this subject; but the class conducted in the Halifax Medical College by Professor L. M. Silver, M. B., and C. D. Murray, M. B., is recognized as qualifying for a degree. The class meets on Tuesdays, Thursdays and Saturdays, at 11—12 a. m. The fee for the course is \$15.00.

§ II.—**The Academic Year.**—The Academic year consists of one Session. The Session of 1899–1900 will begin on Wednesday, 5th September, 1899, and end on Tuesday, 24th April, 1900.

§ III.—**Admission of Students.**—(1.) Persons of either sex may become students of the College by (a) furnishing satisfactory references or certificates of good moral character (on first entering the College), (b) entering their names in the Register (annually), and (c) paying the annual Registration fee, (§ xxiv).

(2.) Registered students may, on presentation of their Registration Tickets, and on payment of the proper fees, (xxiv), enter any of the ordinary classes of the College. The Advanced Classes are restricted to students who have sufficient knowledge of the subjects taught in them.

(3.) Students who are candidates for degrees are known as Undergraduates. Candidates for the higher degrees in attendance on classes are known as Graduate Students. All others are known as General Students.

§ IV.—**Degrees.**—(1) Two baccalaureate degrees are conferred in the Faculty of Arts, those, viz., of Bachelor of Arts (B. A.), and Bachelor of Letters (B. L.). Candidates for these degrees must attend with regularity the classes of their courses of study as prescribed in § vii, perform the exercises required and appear at the examinations held in connection with such classes, and secure a position on the Pass Lists in all subjects. The courses of study extend over at least four years, but in the case of students who enter at advanced stages, may be completed in a shorter time.

(2.) Persons may become candidates for degrees by passing the Junior or Senior Matriculation examination, (§§ v, vi). Those who pass the Senior Matriculation examination are exempted from attending the classes recommended in § vii to be taken in the first year of attendance, and may complete their courses in three years. In general, the Matriculation examination is to be passed by a student before he enters upon a course of study leading to a degree. For subjects of examinations, examinations recognized as equivalent, &c., see § § v, vi.

(3.) General students who have attended some of the classes in either of the Courses of Study and passed in the subjects of them, may become candidates for a Degree by passing one of the Matriculation Examinations, in which case the classes previously attended will be recognized as qualifying for a Degree. But in those subjects of the Matriculation examination in which they have previously attended classes, such students will be expected to show a higher proficiency than if they had passed the examination at the beginning of their course.



(4.) Undergraduates of other Universities may, on producing satisfactory certificates, be admitted *ad eundem statum* in this University, if they are found qualified to enter the classes proper to their years. But if their previous courses of study have not corresponded to the courses on which they enter in this University, they may be required by the Faculty to take additional classes.

§ V.—**Junior Matriculation Examination.**—(1) The following are the subjects of this examination :

1—2. Two of the following languages must be selected : Latin, Greek, French and German. Candidates for B. A. must pass in Latin. If they are to take Greek, as one of the subjects of the First Year, they must also pass in Greek. Candidates for B. L. may select any two.

LATIN.—Translation: (a) Passages for translation from prescribed books with questions arising out of those books. (For 1899), *Cæsar*—Gallic War. Books II and III, and *Vergil*—Æneid, Book III. (For 1900), *Cæsar*—Gallic War. Book V, and *Vergil*—Æneid, Book III. *Composition*: Such a knowledge as may be gained from Collar and Daniell's Beginner's Latin Book, and the first eighteen exercises of Bradley's Arnold's Latin Prose Composition. *Grammar*: As in Bennett's Latin Grammar, or Allen and Greenough's.

GREEK.—Translation: (a) Passages for translation from prescribed books with questions arising out of those books. (For 1899), *Xenophon*, Anabasis, Book II. (For 1900), *Xenophon*, Anabasis, Book III. (b) Short and easy passages for translation at sight from books not prescribed. *Composition*: Such a knowledge as may be gained from Frost's Greek Primer, and the first fifteen exercises of Fletcher and Nicholson's Greek Prose Composition. *Grammar*: As in Elementary Grammars.

FRENCH.—Voltaire: *Charles XII.*, Books I, II, III, Grammar questions limited to the Accidence, and based on the passages selected for translation.

GERMAN.—Buchheim, *German Reader*, Part I., (Clarendon Press), or Hauff: *Das Wirthshaus im Spessart*, *Das Kalte Herz* (Macmillan & Co.). Grammar questions limited to the Accidence, and based on the passages selected for translation.

N. B.—Instead of the work prescribed above in Latin, Greek, French and German, candidates for matriculation (but *not* for scholarships) may offer equivalents, provided they have been previously approved by the President.

3. ENGLISH.—*Language*: Grammar, Analysis, Parsing. *Composition*: An essay on one of several set subjects, to be drawn from:—Macaulay, *Warren Hastings*; Shakspeare, *Merchant of Venice*; Longfellow, *Evangeline*; Scott, *The Lady of the Lake*.

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 drawn from the works named.

4. ARITHMETIC AND ALGEBRA.—*Arithmetic*. *Algebra*: Simple rules; rules for the treatment of Indices; Surds; Extraction of

Square and Cube Roots ; Equations of the First Degree ; Quadratic Equations of one unknown quantity.

5. GEOMETRY.—Euclid, Books I, II, III ; or their equivalents.

6. HISTORY AND GEOMETRY.—Outlines of English and Canadian History, and General Geography.

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.

Candidates reaching a certain standard will be declared to have Passed with Distinction, and will be eligible for the Sir William Young and Professors' Scholarships, and the Mackenzie Bursary. (§ xv.)

(2). Candidates who hold the following Diplomas, Licenses or Certificates shall be exempted from the above examination in subjects which were included in the examinations by which such Diplomas, Licenses or Certificates were obtained and in which a sufficiently high standard was reached :—

- (1.) Teachers' Licenses of Grades A or B of Nova Scotia.
- (2.) Senior or Junior High School Leaving Certificates of Nova Scotia.
- (3.) Honour, First or Second Class Ordinary Diplomas as issued by the Prince of Wales College, P. E. I.
- (4.) First or Second Class Teachers' Licenses of Prince Edward Island.
- (5.) First Class, or Superior or Grammar School Licenses of New Brunswick.

Candidates who hold Teachers' Licenses or Leaving Examination certificates issued by the Education Offices of other Provinces, may be exempted from the whole or from parts of the above examination on application to the Faculty.

Persons who as candidates for the above licenses or certificates succeeded in passing in the majority of the subjects of the above examination, shall be exempted from examination in such subjects.

(3.) Persons may be admitted as Undergraduates of the First Year, without examination, on presentation of certificates from the Principals of High Schools or Academies, approved for this purpose by the Faculty, stating that they have satisfactorily completed the work prescribed for the Junior Matriculation Examination and passed satisfactory examinations therein.

(4.) This examination will be held at the College on September 6th—11th, 1899.

§ VI.—Senior Matriculation Examination. — (1.)  
The following are the subjects of this examination :

1—2. Two of the following :—Latin, Greek, French, German.

Candidates for B. A. must pass in Latin. If they intend to take Greek as one of the subjects of the Second Year they must also pass in Greek ; if not, they may select Greek or French, or German. Candidates for B. L. must pass in one modern language. They may select as the second subject of Latin or Greek or the other modern language.

LATIN.—(For 1899). *Cicero*, Pro Milone ; *Tacitus*, Agricola ; *Vergil*, Æneid, Book VI.

(For 1900). *Cicero*, Orations against Catiline ; *Vergil*, Æneid, Book VI ; *Tacitus*, Agricola and Germania.

GREEK.—(For 1899).—*Xenophon*, Hellenica, Books I and II ; *Plato*, Apology and Crito.

(For 1900).—*Xenophon*, Hellenica, Books I and II ; *Sophocles*, Ajax.

FRENCH.—Voltaire : *Charles XII*, Books I, II, III ; Macmillan's Progressive French Reader, II Year ; Molière ; *Le Bourgeois Gentilhomme* ; Scribe : *Bataille des Dames* ; Grammar (Brachet Public School Grammar), Composition.

GERMAN.—Hauff : *Wirthshaus im Spessart*, excluding the five tales interwoven in the story (Macmillan & Co.) ; Buchheim ; German Reader, Part II ; Schiller : *Wilhelm Tell* ; Grammar, (Joynes-Meissner) ; Composition.

3. ENGLISH.—*Language* : Grammar, Analysis, Parsing. *Composition* ; An essay on one of several set subjects ; to be drawn from :—Macaulay, *Warren Hastings* ; Shakspeare *Merchant of Venice* ; Longfellow, *Evangeline* ; Scott, *The Lady of the Lake*. (See § v 3. Note.)

*Literature*. — Eighteenth Century : Prose. *Addison* : Papers contributed to the Spectator. *Johnson* : Life of Pope. (*Macaulay* : Samuel Johnson). *Dryden* : MacFlecknoe, St. Cecilia's Day, Alexander's Feast. *Pope* : Rape of the Lock. *Gray* : Elegy in a Country Churchyard. *Goldsmith* : Traveller, Deserted Village. *Burns* : Twa Dogs, Cotter's Saturday Night.

*History and Geography*.—Outlines of English and Canadian History and General Geography.

Instead of the works prescribed here in Latin, Greek, French, German and English, candidates for matriculation (but *not* for scholarships) may offer equivalents ; provided they have been previously approved by the President.

4. MATHEMATICS.—*Arithmetic*. *Algebra* : The simple rules. Involution, Evolution, Theory of Indices, Equations of the First and of the Second Degree ; Discussion of Imaginary Quantities and of  $\sqrt{-1}$  :—Proportion, Inequalities, Indeterminate Equations, Variation, Progressions, Theory of Notation ; Elements of Determinants ; Selected Propositions in the Theory of Equations, with Horner's method of approximating the roots of an Equation of a Degree higher than the Second. *Geometry*.—Euclid Books I, II, III, IV, Definitions of the Fifth, and the Sixth Book, with Geometrical exercises.

5. CHEMISTRY.—The elements of General Chemistry. Remsen's *Introduction to the Study of Chemistry* (Macmillan & Co.) may be taken to indicate in a general way the extent of knowledge required. The examination will be designed to test the extent to which the candidate's knowledge of the elementary facts of Chemistry is founded upon practical study.

The subject of Chemistry may be omitted by candidates; but in that event, they must either pass the examination therein on entering the Third Year, or take the subject as one of the electives of the Third Year.

In the competition for scholarships also, the subject of Chemistry may be omitted. The award is made upon the average of excellence shown in the subjects professed.

N. B.—This examination is prescribed for candidates for Senior Scholarships.

(1.) Candidates who have previously passed in one or more of the above subjects, either at the Senior Matriculation Examination or at the Junior Matriculation and First Year Examinations, shall be exempt from further examination therein.

(2.) Candidates who held the following Licenses, Diplomas or Certificates shall be exempted from the above Examination in subjects which were included in the Examinations by which such Licenses, Diplomas or Certificates were obtained, and in which a sufficiently high standard was reached:

- (1.) Teachers' Licenses of Grade A of Nova Scotia.
- (2.) Senior High School Leaving Certificates of Nova Scotia.
- (3.) Honour Diplomas as issued by the Prince of Wales College, P. E. I.
- (4.) First Class Licenses of Prince Edward Island (except in the subject of Greek.)
- (5.) Grammar School Licenses of New Brunswick.

Candidates who hold Teacher's Licenses of Grade B, or Certificates of having passed the Junior Leaving Examination of the High School, issued by the Nova Scotian Education Office, and those who hold Teachers' Licenses of the Second Class, issued by the Education Office of Prince Edward Island, shall be exempted from those parts of the above examination which are common to it, and the Junior Matriculation Examination, provided such parts were included in the examinations by which such Licenses or Certificates were obtained and a sufficiently high standard was reached.

Candidates who hold Teachers' Licenses or Leaving Examination Certificates, issued by the Education Offices of other Provinces, may be exempted from the whole or from parts of the above examination, on application to the Faculty.

Persons who, as candidates for the above Licenses and Certificates, attained a sufficiently high standard in the more

important of the subjects of the above examination shall be exempted from examination in such subjects.

(3.) Candidates must give at least one fortnight's notice to the President, of their intention to appear at this examination; and in giving such notice they must state in what Latin, Greek, French, German, and English books they intend to offer themselves for examination, whether or not they wish to be examined in Chemistry, and in what subjects they claim exemption from examination.

(4.) This examination will be held at the College on September 6th—11th, 1899.

**§ VII.—Ordinary Courses of Study for Degrees of B. A. and B. L.**—(1.) The B. A. Course consists of the following Classes:—Two in Latin; two in one of the following: Greek, French, German; a third in either Latin or Greek, (two classes in the language selected having been taken); two in each of English and Mathematics; one in each of History, Philosophy, Physics, and Chemistry; together with seven single classes (or an equivalent) in subjects to be selected by the student from the lists given below, and to be approved by the Faculty. A single class is one in which two or three lectures per week are given. A double class is one in which four or five lectures per week are given. A double class is to be regarded in the choice of elective subjects as equivalent to two single classes.

(2.) The B. L. Course consists of the following classes:—Three in one or other of German or French; two in one of the following: the modern language not selected to be studied for three years, Latin, Greek; three in English; one in each of History, Philosophy, Mathematics, Physics, Chemistry; together with seven single classes (or an equivalent) to be selected by the student from the lists given below, and to be approved by the Faculty. Single and double classes are to be understood as in (1) above.

(3.) The classes not specified above, which are selected by students as part of their course, must be submitted to the President for approval at a date not later than Sept. 18, 1899.

(4.) Undergraduates in taking French or German for the first time, enter the classes for which the Professor considers them fitted. In other subjects, they enter the First or Junior classes.

(5.) The First class in Latin, Greek, French and German is not recognized as part of the course for a degree unless the Second class is subsequently taken.

(6.) No class in which the subjects studied are the same from year to year, can be taken twice as part of a course.

(7) A sufficient number of the more purely literary, philosophical, or scientific subjects of theological, legal, medical and musical courses respectively, are included among the elective subjects, to enable the student during his course to complete part of one or other of these professional courses. Students taking Constitutional History, Constitutional Law and Contracts, and passing therein, are allowed to complete their Law Course in this University subsequently in two years [§ xl (4)].—Students who have registered as undergraduates in Medicine may complete one *annus medicus* during their Arts Course by taking either Senior Chemistry, and Physiology, or either of these subjects with Practical Chemistry and Botany. (See Faculty of Medicine.)

(8.) The classes in the above courses may be taken in any order subject to the provisions: (1) that in any one subject, classes are to be taken in the order of their advancement; (2) that Junior Mathematics is to be taken before Junior Physics; and (3) that Junior Physics and Junior Chemistry are to be taken before Practical Physics and Practical Chemistry respectively; (4) that Junior Philosophy is to be taken before Moral Philosophy.

(9.) In the following statement, however, the classes are arranged in years to show the order in which it will generally be found most convenient to take them. The time-table of lectures and the dates of examinations are based upon this arrangement.

The details of the subjects studied in these classes will be found under Courses of Instruction. (§ i).

#### First Year.

1. *For B. A.*—First Latin. *For B. L.*—First German or First French.
2. *For B. A.*—Greek, or French, or German, (Undergraduates who intend in their third year to enter the 8th or 9th Special Course, [§ viii (2)], are recommended to select German). *For B. L.*—The modern language not selected as subject 1, or Latin, or Greek.
3. Junior Mathematics.
4. Junior Chemistry.
5. First English.

#### Second Year.

1. *For B. A.*—Second Latin. *For B. L.*—The language selected as subject 1 in the First Year.
2. *For B. A.*—The language chosen as subject 2 in the First Year. *For B. L.*—The language selected as subject 2 in the First Year.
3. *For B. A.*—Senior Mathematics. *For B. L.*—Senior Mathematics or Junior Physics.

4. Second English.

5. Junior Philosophy or (in the case of students who intend to enter the 7th or 8th Special Course, § viii (2), Junior Physics, or (in the case of students who intend to enter the 9th Special Course), Senior Chemistry.

#### Third Year.

1. *For B. A.*—Latin or Greek or N. T. Greek. The language selected must have been taken during the first two years. *For B. L.*—German or French; the language selected must have been taken in the First and Second Years.

2. *For B. A.*—Junior Physics or (if Junior Physics have been taken in the Second Year), Junior Philosophy. *For B. L.*—Junior Physics or (if Junior Physics have been taken in the Second Year) one of subjects 4—5.

3.—Junior History.

4—5. Two of the following :—

Greek.	Senior Philosophy.
N. T. Greek.	Modern Philosophy.
Latin.	Senior Chemistry.
Hebrew.	Practical Chemistry.
French.	Botany.
German.	Practical Physics.
English.	Education :—History and Theory.
Constitutional History.	Theory.
Political Economy.	Zoology.
Greek Philosophy.	Theory of Music.
Moral Philosophy.	

#### Fourth Year.

Five of the following :—

Latin.	Education.
Greek.	Constitutional History.
N. T. Greek.	Constitutional Law.
Hebrew.	Contracts.
French.	Senior Physics.
German.	Practical Physics.
English.	Senior Chemistry.
History.	Practical Chemistry.
Political Economy.	Botany.
Senior Philosophy.	Physiology.
Modern Philosophy.	Zoology.
Greek Philosophy.	Theory of Music.
Moral Philosophy.	

N. B.—Any Advanced Class may, in this year be taken as an ordinary class, if approved by the Faculty.

§ VIII.—**Special Courses for Degrees.**—(1.) An undergraduate shall be allowed, after completing the work recommended in § vii for the first two years of his course, to restrict his attention to a more limited range of subjects than that of the ordinary course, by entering upon one of the Special Courses, provided he has either attained both a First Class standing at the previous Examination in the subject corresponding to that of the Special Course selected, and a satisfactory standing in the other subjects, or received the special permission of the Faculty.

(2.) Special Courses are provided in the following departments, viz., (1) Classics, (2) Latin and English, (3) Greek and English, (4) English and German, (5) English and English History, (6) Philosophy, (7) Pure and Applied Mathematics, (8) Mathematics and Physics, (9) Chemistry and Chemical Physics. Undergraduates in Arts may take special courses in any one of the above departments; undergraduates in Letters in any one of departments, 4, 5, 6, 7, 8, and 9.

(3.) An undergraduate taking a special course in any of the above departments shall be required to attend the Advanced Classes provided in the subjects of such departments (§ 1), to make progress satisfactory to the Professors who conduct such classes, and to pass the examinations in the subjects of such department. He shall be allowed to omit, from the subjects of the ordinary course, certain subjects specified below, and may select as his ordinary classes in any year, any of the classes of that year, subject to the following regulations and to the approval of the Faculty.

(4.) The examinations in the subjects of Special Courses shall be held at the end of the Fourth Year.

(5.) Undergraduates taking the Special Course in **Classics** may, in each of the Third and Fourth Years, omit any two of the subjects of those years, except Latin and Greek.

They 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:—

- Platus: Miles Gloriosus.
- Terence: Adelphi.
- Vergil: Georgics, Books I., IV.
- Horace: Epistles, Books I., II.; Ars Poetica.
- Juvenal: Satires, VII., VIII., XIV.
- Cicero: De Oratore, Books I., II., III.
- Livy: Books XXI., XXII.
- Tacitus: Agricola: Annals, Book II.



II. Candidates will be required to show a general knowledge of one prose and one verse subject, to be chosen by them from the following list :—

Plautus : *Menæchmi*, and *Aulularia*.  
 Terence : *Andria*, and *Heautontimorumenos*.  
 Cicero : Select Letters, (Muirhead's edit., Longmans, London).  
 Tacitus : *History*, Books III., IV., V.

III. COMPOSITION.—Prose.

IV. LITERATURE.—Cruttwell's *History of Roman Literature*, selected chapters.

V. PHILOLOGY.—Victor Henry's *Comparative Grammar of Greek and Latin*.

#### GREEK.

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

Aeschylus : *Eumenides*.  
 Sophocles : *Oedipus Rex*.  
 Aristophanes : *The Knights*.  
 Homer : *Odyssey*, Books V., VI., VII., VIII.  
 Thucydides : *Book II*.  
 Plato : *Phædo*.  
 Demosthenes : *De Corona*.  
 Aristotle : *Poetics*.

II. Candidates will be required to show a general knowledge of one prose and one verse subject, to be chosen by them from the following list :—

Aeschylus : *Agamemnon*, and *Choephoroi*.  
 Sophocles : *Oedipus Coloneus*, and *Antigone*.  
 Thucydides : *First and Seventh Books*.  
 Aeschines : *Contra Ctesiphontem*, and  
 Demosthenes : *De Falsa Legatione*.

III. COMPOSITION.—Prose.

IV. PHILOLOGY.—Victor Henry's *Comparative Grammar of Greek and Latin*.

V. LITERATURE.—Mahaffy's *History of Greek Literature*, the portions bearing on the authors and subjects read by the candidate during his college course. Haigh's *Theatre of the Greeks*.

(6.) Undergraduates taking the Special Course in **Latin and English** may, in each of the third and fourth years of their course, omit any two of the subjects of those years except Latin and English. They shall be examined in the following subjects, viz. :

#### LATIN.

The Latin subjects prescribed for the Special Course in Classics.

#### ENGLISH.

The historical development of the language and literature to the year 1300. Bright, *Anglo-Saxon Reader*. Sievers, *O E. Grammar* (trans. by Cook.) Pt. II. Morris, *Specimens of Early English*, I. Emerson, *History of the English Language*. Sight reading of O. E.

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

Marlowe, *Tamburlaine*, *Edward II.*, *The Jew of Malta*. Greene, *Friar Bacon and Friar Bungay*. Jonson, *The Alchemist*. *Every Man in His Humor*. Beaumont and Fletcher, *Philaster*, *The Knight of the Burning Pestle*. Massinger, *A New Way to Pay Old Debts*. Webster, *The Duchess of Malfi*. Shakspeare, *Titus Andronicus*, *Romeo and Juliet*, *Julius Cæsar*, *Hamlet*, *Othello*, *Lear*, *Macbeth*, *Antony and Cleopatra*, *Coriolanus*, *Timon*, *The Two Noble Kinsmen*. Part of this course is conducted by means of a Seminary.

*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, Saintsbury. Brooke; Clarendon Press, "Mermaid," "Temple Dramatists," and Arber Editions of Elizabethan works.

(7.) Undergraduates taking the Special Course in **Greek and English** may, in each of the third and fourth years of their course omit any two of the subjects of those years, except Greek and English. They shall be examined in the following subjects, viz. :—

#### GREEK.

The Greek subjects prescribed for the Special Course in Classics.

#### ENGLISH.

The English subjects prescribed for the Special Course in Latin and English.

(8.) Undergraduates taking the Special Course in **English and German** must have taken German in the first and second years of their course, and may in each of the third and fourth years omit any two subjects of those years except English and German. They shall be examined in the following subjects:—

#### ENGLISH.

The English subjects prescribed for the Special Course in Latin and English.

#### GERMAN.

Middle High German: Grammar (Wright's Middle High German Primer): Selections from Hartmann von Aue, Walther von der Vogelweide, Nibelungenlied, Gudrun, Wolfram von Eschenbach, Freidank or Gottfried von Strassburg, Sebastian Brant, (Wackernagel's Kleineres Altdeutsches Lesebuch).

Selections from Swiss and Plattdeutsch dialect literature.

German Literature of the 16th, 17th, and 18th centuries, with selections from authors of that period.

Two of the chief literary works of Goethe not read in the ordinary course.

Translations of unspecified passages from any Modern High German author.

Prose Composition.

(9.) Undergraduates taking the Special Course in **English and English History** may, in each of third and fourth years of their course, omit any two of the subjects of those years, except English and History. They shall be examined in the following subjects, viz. :

ENGLISH.

The English subjects prescribed for the Special Course in Latin and English.

ENGLISH HISTORY.

English History from A. D. 1603-1689.

*Books recommended:* Green's History of the English People, Vol. 3; Lingard's History of England, Vols. 8-10; Hallam's Constitutional History of England, Chap. VI.-XIV.; Ranke's History of England; S. R. Gardiner's works on this period; Clarendon's History of the Great Rebellion; Masson's Life of Milton; Carlyle's Life of Cromwell; Forster's Life of Eliot; Bayne's Chief Actors in the Puritan Revolution.

(10.) Undergraduates taking the Special Course in **Philosophy** may, in each of the third and fourth years of their course, omit any one of the subjects of those years, except Senior Philosophy, Modern Philosophy, Moral Philosophy, and Greek Philosophy. They are recommended to take German. They shall be examined in the following subjects:—

- I. General History of Philosophy from Thales to modern times.  
Ferrier: Greek Philosophy.  
K. Fischer: Descartes and his School, Pp. 1-158, 309-375, 465-581.  
Seth (A): Scottish Philosophy.  
Royce: Spirit of Modern Philosophy.

II. Greek Philosophy from the Sophists to Aristotle, and Modern Philosophy from Locke to Kant.

- Plato: Theætetus and Republic.  
Aristotle: Metaphysics, Book I., and Ethics.  
Locke; Essay on Human Understanding (with Fraser's Prolegomena).  
Berkeley; Principles of Human Knowledge and Siris (as in Fraser's Selections).  
Hume; Human Nature, Vol. I. (with Green's Introduction).  
Reid; Inquiry into the Human Mind; Intellectual Powers, Essay VI.  
Kant: The Critiques of Pure Reason, of Practical Reason, and of Judgment (as in Watson's Selections).  
Hegel: Logic Chaps. I.-VI. (Wallace's Translation).

III. Any *three* of the following:

1. Principles of Logic. Bradley: Principles of Logic; Bosanquet: Knowledge and Reality.
2. Principles of Psychology. James: Principles of Psychology; Wundt: Outlines of Psychology; Wundt: Human and Animal Psychology.
3. Principles of Ethics. Green: Prolegomena to Ethics; Wundt: Ethics.
4. Principles of Metaphysics. Bradley: Appearance and Reality.
5. Philosophy of Religion. Lotze: Philosophy of Religion; Caird: Introduction to Philosophy of Religion; Martineau: Study of Religion.

## IV. Any one of the following :

1. History of Philosophy from Descartes to Leibnitz. Descartes: Method, Meditations and Principles; Spinoza: Ethics; Caird: Cartesianism (Encyc. Brit.). Martineau: Spinoza.
2. History of Philosophy from Kant to Hegel. Hegel Philosophy of History and State (as in Morris' Exposition), and Logic (with Wallace's Prolegomena). Harris: Hegel's Logic. Seth: Hegelianism, and Personality, and From Kant to Hegel. McTaggart; Studies in Hegelian Dialectic.
3. History of Philosophy from Hume to Spencer. Comte: Positive Philosophy. Mill: As in Watson's Selections. Spencer: First Principles. Mill: Comte and Positivism; Douglas: John Stuart Mill. Watson: An Outline of Philosophy.
4. History of Ethics in Great Britain from Hobbes to Green. Hobbes and his Critics; Utilitarianism—Bentham, Mill and Sidgwick; Intuitionism—Butler, Calderwood, Martineau; Evolutional Ethics—Spencer, Stephen, Huxley.

(11.) Undergraduates taking the Special Course in **Pure and Applied Mathematics** are recommended to take Junior Physics in their Second Year, and in the event of their not having done so, to read, before entering the Third Year, the text-book of the Junior Physics Class on the subjects discussed in the Senior Physics Class in their Third Year. They may omit in the Third Year any two, and in the Fourth Year any three, of the subjects of those years except Physics, and must take the Senior Physics Class in both the Third and Fourth Years. The standard of attainment shown in the examinations in this class in both years will be considered in estimating the results in the final examination of the Special Course.

The subjects of examination will be as follows:—

## PURE MATHEMATICS.

TRIGONOMETRY.—Angular Analysis: Solution of Spherical Triangles; Napier's Analogies; with application to Astronomical Problems.

ANALYTICAL GEOMETRY.—The Conic Sections, and the Equation of the Second Degree between two variables; as far as set forth in any standard treatise on the subject.

CALCULUS.—Differential and Integral, as set forth in any standard treatises on these subjects (Williamson's Treatises on these subjects recommended). Differential Equations (selected course), with practical application to Physical Problems. Dr. D. A. Murray's Introductory Course of Differential Equations recommended. (Longmans, Green & Co., New York).

## APPLIED MATHEMATICS.

Either Kinematics and Dynamics, or Thermodynamics and Electrodynamics,—those portions of these subjects which are treated in the class of Advanced Mathematical Physics, the mode of treatment being by application of Analytical Geometry and the Differential and Integral Calculus.

(12.) Undergraduates taking the Special Course in **Mathematics and Physics** should have studied German in their first and second years, and Junior Physics in their second year. In the event of their not having done so, they should work up the German in their vacations and should read the proper sections of the elements of Physics, (if possible, performing experiments), before entering the Senior Physics Class. They are required, if they wish to complete the course in two years, to take in their third year Advanced Mathematics, Senior Physics, Practical Physics, Senior Chemistry, and Practical Chemistry, and in their fourth year, the Advanced Classes in Mathematics, Mathematical Physics and Experimental Physics, Senior Physics and Practical Physics. But they are advised to take three years rather than two to complete the course. The standard of attainment shewn in the examinations in Senior Physics in both years will be considered in estimating the results of the final examination of the Special Course.

They will be required in the course of their Laboratory work in Physics and Chemistry to prove their ability to make accurate determinations of physical constants, to conduct investigations of physical laws, and to carry out qualitative analyses and both gravimetric and volumetric quantitative analyses of inorganic bodies.

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 will be as follows :

1. **MATHEMATICS.**—The subjects of the Special Course in Pure and Applied Mathematics, § viii (11), the standard of attainment required not being so high as in the Special Course in Mathematics.
2. **MATHEMATICAL PHYSICS.**—The subjects of the Special Course in Pure and Applied Mathematics.
3. **GENERAL PHYSICS.**—As in Nichols and Franklin's Elements of Physics (The Macmillan Co.), supplemented by the discussions and course of reading of the Advanced Experimental Physics Class in special sections such as the kinetic theory of gases, the theory of solutions, electrolysis and physical optics.
4. **EXPERIMENTAL METHODS.**—A general acquaintance with the methods applicable in different classes of investigation as in Glazebrook and Shaw's Practical Physics (Longmans, Green & Co.), and Ostwald's Physico-Chemical Measurements (Macmillan & Co.)—The experimental methods of the following memoirs :—Joule's papers on the determination of the Mechanical Equivalent of Heat, contained in his Scientific Papers (Taylor & Francis), vol. I. pp. 123, 172, 298, 542, 632; Faraday's Experimental Researches in Electricity (Quaritch), vol. I, Series iii., iv., vi., vii., viii; Lord Kelvin's papers on the Electrodynamic Qualities of Metals, in his Mathematical and Physical Papers, Vol. II. (Camp. Univ. Press).—The treatment of

observations and the discussion of the accuracy of experimental results, as in Holman's Precision of Measurements (John Wiley & Sons), supplemented by the more purely physical chapters of Merriman's Text-book of Least Squares (J. Wiley & Sons).

(13.) Undergraduates taking the Special Course in **Chemistry and Chemical Physics** are recommended strongly to select German as one of the subjects of their First and Second Years, to take Senior Chemistry in their Second Year, and before entering upon the Third Year to read the text-book of the Junior Physics Class on the subjects to be treated in the Senior Physics Class in their Third Year. They are required in their Third Year to take the following classes:—Advanced Practical Chemistry, Advanced Mathematics (partial course), Junior Physics (with work in the Laboratory), Senior Physics, and German, and in their Fourth Year, the following classes:—Advanced Practical Chemistry, Advanced Mathematics (partial course), Advanced Experimental Physics, Senior Physics, Practical Physics, and German (if not taken in First and Second Years).

Candidates will be examined at the end of the Fourth Year in the following subjects:—

#### CHEMISTRY.

(1.) The principles and theories of modern chemistry. The following books are mentioned to indicate the extent of knowledge required:—Remsen's *Inorganic Chemistry, Advanced Course*, (H. Holt & Co.); Bernthsen's *Organic Chemistry*, translated by McGowan (Blackie & Son, Van Nostrand); Meyer's *Outlines of Theoretical Chemistry*, translated by Bedson and Williams (Longmans).

(2.) Outlines of the history of chemistry. In this connection candidates will be required to have an acquaintance with the following:—Schorlemmer's *Rise and Development of Organic Chemistry*, (Macmillan & Co.); Roscoe's *Dalton and the Rise of Modern Chemistry*, (Macmillan & Co.); and the essays on Boyle, Priestley, Scheele, Cavendish, Lavoisier, Graham and Wöhler, in Thorpe's *Essays in Historical Chemistry*, (Macmillan & Co.)

(3.) The following memoirs:—On the Arsenates, Phosphates and Modifications of Phosphoric Acid, Graham, Philosophical Transactions, 1833; Ueber das Radical der Benzoesäure, Liebig and Wöhler (Ostwalds Klassiker, No. 22); Ueber die Constitution der Organischen Säuren, Liebig (Ostwalds Klassiker, No. 26).

(4.) The principles and methods of qualitative analysis and of quantitative analysis, both gravimetric and volumetric, and the practical details of laboratory operations.

Candidates must have prepared in pure condition not fewer than twenty inorganic compounds, and not fewer than thirty organic compounds. They must be able to carry out accurate quantitative determinations of the following elements: chlorine, iodine, sulphur, nitrogen, phosphorus, silicon, carbon, hydrogen (in organic compounds) and of the most important metals.

(5.) **CHEMICAL PHYSICS.**—Those sections of Physics which have an intimate bearing upon chemical research, viz., the properties of gases and liquids, including the kinetic theory of gases and the theory of solutions, the theory of heat, electrolysis, and the wave

theory of light as in Nichols and Franklin's *Elements of Physics* (The Macmillan Co.) and Whetham's *Solution and Electrolysis* (Camb. Univ. Press.)—Physical experimental methods which are applicable in chemical research as in Ostwalds *Physico-Chemical Measurements*, (Macmillan & Co.)—The discussion of the degree of accuracy of experimental results, as in Holman's *Precision of Measurements*, (J. Wiley & Sons).

(6.) Candidates for High Honors (See § xii) will be expected to prepare a thesis embodying the results of a short original investigation.

Candidates who do not undertake an original investigation will be expected to show special familiarity with some branch of laboratory work such as the preparation of some of the complex organic compounds; the assaying of ores; the analysis of foods or poisons; the analysis of soils; water analysis or gas analysis.

**§ IX.—Attendance.**—Professors and lecturers shall mark the presence or absence of students immediately before commencing the work of the class, and shall note as absent those who enter thereafter, unless satisfactory reasons be assigned. The number of times absent, as recorded in the class registers, which shall disqualify for the keeping of a Session, shall be determined by the Faculty.

**§ X.—Examinations.**—(1.) Students are required to appear as candidates at the various examinations held in connection with the classes which they may attend as parts of their course, and to prepare such theses, essays, reports, etc., as may be prescribed by the Professor. In all classes two examinations are held, one just before the Christmas vacation, and the other after the close of lectures in the Spring. In some classes, other examinations are held at dates appointed by the Professor. In the determination of the Pass List and in the award of Class Distinctions, which may be of two grades—First and Second Class, the results of these various examinations and the degrees of excellence shown in theses, essays, reports, etc., shall be taken into consideration.

General Students are admitted to the above examinations as well as undergraduates, so far as the dates of the Almanac may permit; and their positions in the Pass and Distinction Lists are determined in the same way.

Certificates are issued to members of each class stating with what degree of regularity they have attended and what standing they have attained.

(2.) A student who fails to obtain a position on the Pass List in one or more subjects at the end of any Session shall be allowed a Supplementary Examination in such subjects, at the beginning of the next Session of his attendance, on the day appointed for that purpose in the University Almanac, (Sept. 11th, 1899). He may also present himself at the ordinary Christmas and Spring Examinations of such next Session. The

fee for a Supplementary Examination, or for appearing as above provided, at the Christmas and Spring Examinations, shall be Two Dollars in each subject, but in the case of students failing in more than two subjects, the maximum fee shall be Five Dollars.

(3.) A student who has failed either to appear or to pass at the Supplementary or other Examination provided for by (2) may, on application to the Faculty, be granted a Special Supplementary Examination at the beginning of any subsequent Session. But, if in the meantime, the student have attended a more advanced class in the same subject, he will be expected to show greater proficiency than if he had passed the examination at the proper date. The fee for a Special Supplementary Examination shall be Five Dollars per subject, but if the examination includes more than two subjects, the maximum fee shall be Ten Dollars.

(4.) A student who fails either to appear or to pass at a Supplementary Examination, shall not be allowed a Special Supplementary Examination in the same Session, except by special permission of the Faculty; and in cases in which such Examination is granted, the fee provided for by (3) must be paid.

(5.) Students wishing to appear as candidates at any Supplementary or Special Examination, shall be required to give notice of their intention, to the Secretary of the Faculty, at least one week before the date of such examination. The fee to be remitted with such notice.

**§ XI.—Degrees with Distinction.** — Degrees with Distinction will be conferred on undergraduates for special excellence shewn at the Examinations of the Second, Third and Fourth Years of any of the ordinary courses for degrees.

In awarding such Distinction, the Faculty, while requiring that candidates shall attain a good standing in all their classes will lay special stress on the attainment of a high standing in a few related subjects, in which additional private work is required as a condition of Distinction.

The terms used to designate the student's standing will be : With Distinction, With Great Distinction.

**§ XII. — Degrees with Honours.** — Degrees with Honours in any of the departments of study in which Special Courses are provided, will be conferred on undergraduates for special excellence shewn at the Examinations in the subjects of such courses.

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

A candidate for Honours may defer his examination in the subjects of his Special 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 examinations of such Special Course.

**§ XIII.—Short Courses of Study for General Students.**—(1.) For the benefit of students who may not be able to spend four full years at the University, but may be able either to spend two full years or to give partial attendance for a longer period, short courses of study have been arranged, as specified below.

Students entering upon these courses are not required to pass any preliminary examination ; but they are recommended not to enter classes in which some knowledge of the subjects studied is assumed, without first consulting the Professor as to their ability to enter with profit upon the work of the classes.

To students who attend the classes in these courses with regularity, show diligence in the class work, and are successful in passing the examinations, certificates will be issued stating the nature of the course pursued and the degree of success attained.

The details of the subjects studied in the classes mentioned below, will be found under Courses of Instruction (§§ i., xxv., xlvj).

(2.) **Short Courses of Liberal Studies.**—The aim of this course is to give the student the same kind of training as that provided by the B. A. and B. L. courses. It consists of ten classes. Of these, two must be in English, and the remainder may be selected by the student, subject to the provisions of the Time Table, from the other subjects mentioned in this paragraph, with the following restrictions :—(a.) One of the four subjects—Latin, Greek, French, German—must be taken during two years, and if another of these subjects be selected, it also must be taken during two years. (b.) At least two of the four subjects—Mathematics, Physics, Chemistry, Botany,—and at least two of the three subjects—History, Political Economy, and Philosophy,—must be taken for one year each ; and any two of them, if subjects in which two classes are provided, may be taken during two years. The class in any subject in which a student shall enter will be that for which he is fitted by his previous study.

(3.) **Short Course in Subjects bearing on Journalism.**—The aim of this course is to enable a student to study as thoroughly as the time at his disposal will permit, subjects which have a direct bearing on newspaper work in Canada. It consists of the following classes :—English (First, Second and Fourth Classes), French (during two years), Junior

(a) One *Sir William Young Scholarship*; of the value of Forty Dollars, tenable for one year and payable in two instalments.

(b) One *Professors' Scholarship*; entitling to exemption from fees throughout the entire course, in classes conducted by Professors in the Faculties of Arts and Science; provided the scholar make progress satisfactory to the Faculty.

They will be awarded to the two candidates ranking highest at this Examination, provided their standing is considered satisfactory by the Faculty. The successful candidates will be allowed to select, in the order of their standing, the scholarships which they shall hold.

**§ XVI.—1851 Exhibition Science Scholarship.**—The Scholarship offered by Her Majesty's Commissioners for the Exhibition of 1851, which is of the annual value of £150 sterling, and is tenable for two years (see Faculty of Science, § xxxix), is open to students of the University.

**§ XVII.—Residence.**—All students are required to report their places of residence to the President on or before the day appointed in the University Almanac (October 14th.)

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 by the President, containing the names of those persons who have met this requirement; and for the convenience of students, a list of the names and addresses of such persons will be posted on the notice-board in the College hall at the beginning of the Session.

Lady undergraduates in any Faculty are admitted, on certain conditions, as boarders, to the Halifax Ladies' College.

**§ XVIII.—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 13th), the churches 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.

**§ XIX.—Discipline.**—The Senate may use all means deemed necessary for maintaining discipline.

**§ XX.—Degrees of Master of Arts and of Letters.**

—The degree of Master of Arts or of Letters will be conferred on a Bachelor of Arts or of Letters, respectively, of at least one year's standing and of good character, either on his submitting to the Faculty a satisfactory thesis embodying the results of original research on some literary, philosophical or scientific subject, or on his passing an examination in a course of study, appointed or approved by the Faculty, of at least the extent represented by the academic work of one year of the Arts or Letters Course. In the latter case no fixed courses of study are laid down, the intention being to encourage graduates to prosecute advanced courses of study either at this or at any other University or by private reading, and to adapt the courses to their individual tastes and capacities. But no course of study will be approved unless it is confined either to one department of study or to closely related departments.

Theses must be sent to the Secretary to the Faculty on or before the first of March. Examinations will be held ordinarily at the time of the Spring Examinations; but in special circumstances they may be held in the Autumn. Candidates must give one month's notice of their intention to appear for examination. Fee to be remitted with notice.

**§ XXI.—Degree of Doctor of Laws.**—The degree of Doctor of Laws may be conferred, *honoris causâ*, for eminent literary, scientific or professional services.

**§ XXII.—Admission ad Eundem Gradum.**—Graduates of Universities approved by the Senate, who have received their degrees in course, shall be admitted *ad eundem gradum* in this University, on producing satisfactory proof of character and academic standing. For fee see § xxiv.

**§ XXIII.—Academic Costume.**—(1.) Undergraduates and general students attending more than one class are entitled to wear caps and gowns, and to wear the 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.

(2.) Bachelors and Masters of Arts, and Bachelors and Masters of Letters, of this 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 hood 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. L.—Black stuff, with a lining of white silk, bordered with light blue silk.

M. L.—Black stuff, with lining of light blue silk.

(3.) Successful candidates for these degrees shall be required to appear at Convocation in the proper academic costume, to have the degrees conferred upon them. Degrees will be conferred in the absence of the candidate only by special permission of the Senate.

DOCTOR OF LAWS.—Doctors of Laws shall be entitled to wear gowns of black silk and hoods of black silk lined with purple silk.

§ XXIV.—Fees.—(1.) Fees are payable by students for Registration, (entitling to the use of the Library and the Gymnasium,) for classes attended, and for certain examinations. They are payable in advance.

No student is entitled to enter a class until he has paid the proper fees.

The following is a statement of the fees payable by students whether undergraduates or general students :—

Registration Fee, payable annually by all students taking more than one class.....	\$ 4 00
Registration Fee, payable by students taking only one class. . . . .	2 00
Fee for each class attended, (not being Practical Classes), per Session.....	6 00
For Junior or Senior Chemistry, if laboratory work is taken..	10 00
For Practical Chemistry Class, five hours a week, per Session. . . . .	8 00
For Practical Chemistry Class, ten or more hours a week. . . . .	14 00
For Practical Physics Class, five hours per week, per Session. . . . .	6 00
For Practical Physics Class, ten or more hours a week . . . . .	12 00
Supplementary Examination Fee, payable on giving the notice required by § x. (2) either \$2.00 in each subject, or .....	5 00
Special Examination Fee, payable on giving the notice required by § x. (3) in each subject, \$5.00, or (x. 3).....	10 00
Fee for Special Certificate of Standing, under seal . . . . .	5 00

(2.) The graduation fees shall be as follows :—

*For the B. A. or B. L. Examination, which is payable by candidates before the Spring Examinations of the Fourth Year.....	\$ 5 00
*For M. A. or M. L. Examination, which must accompany the Thesis, or intimation of intention to appear for examination.....	10 00
For B. A. or M. A. ( <i>ad eundem gradum</i> ).....	10 00

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\*In cases of failure in the examination, the fee will not be returned but a second examination will be allowed without further fees.

# Faculty of Pure and Applied Science.

THE PRESIDENT, (*ex-officio*.)

C. MACDONALD, M. A.	J. LIECHTI, A. M.
J. G. MACGREGOR, D. SC.	A. MACMECHAN, PH. D.
M. MURPHY, D. SC. C. E.	E. GILPIN, JR., LL. D.
F. W. W. DOANE, C. E.	C. E. W. DODWELL, B. A., M. I., C. E.
R. MCCOLL, M. Can. Soc. C. E.	W. C. MURRAY, M. A.
A. MCKAY, ESQ.	A. W. H. LINDSAY, B. A., M. D.
L. M. SILVER, M. B.	S. A. MORTON, M. A.
C. ARCHIBALD, M. E.	W. T. KENNEDY, ESQ.,
H. W. JOHNSTON, M. Can. Soc. C. E.	E. MACKAY, PH. D.
G. J. MILLER, ESQ.	A. HALLIDAY, M. D.
C. H. PORTER, ESQ., JR.	REV. R. LAING, M. A.

*Dean of the Faculty* : PROFESSOR MACGREGOR.

*Registrar of the Faculty* : PROFESSOR LIECHTI.

Correspondence should be addressed :—*The Dean of the Faculty of Science, Dalhousie College, Halifax, N. S.*

## § XXV.—Courses of Instruction.

### i.—MATHEMATICS.

*Professor*..... C. MACDONALD, M. A.

#### Junior Class.

*Daily, 11 A. M.—12 M.*

As in the Faculty of Arts, (see § 1 (xi), p. 29).—Undergraduates of this Faculty, taking Courses, A, B, E, F, G, or H (§ xxx) will be expected both to qualify themselves by diligent study for taking, and to take, the additional work for Distinction.

#### Senior Class.

*Daily, 10—11 A. M.*

As in the Faculty of Arts, (see § 1 (xi), p. 29).—Undergraduates of this Faculty taking courses A, B (if they are to enter the Special Course in Chemistry and Chemical Physics, § xxxi), E, F, G, or H, are required to qualify themselves by diligent study for entering, and to enter, the Higher Division of this class. Only students who pass a satisfactory examination in the work of the Higher Division are admitted to the Advanced Class, which is one of the third year classes in the Courses mentioned above.

**Advanced Class.**

As in the Faculty of Arts, (see § 1 (xi), p. 30).—The work of the First Division of this class is taken up in the third year, that of the Second Division in the Fourth Year.

The "partial course" of study prescribed in the third year of some of the B. Sc. Courses (§ XXX) consists of a portion of the work of the First Division in Analytical Trigonometry, Analytical Geometry, and the Differential Calculus.

The "partial course" prescribed in the fourth year of such Courses, consists of a portion of the work of the Second Division in Analytical Geometry, Differential and Integral Calculus and Differential Equations.

**ii.—PHYSICS.**

*Professor*.....J. G. MACGREGOR, D. SC.

*Tuesdays and Thursdays, 11 A. M.—12 M., Wednesday,  
3—4 P. M.*

The subjects of the lectures will be :—The elements of Dynamics ; The properties of solid and fluid bodies ; Sound ; Heat ; Electricity and Magnetism ; Light and Radiant Heat. These subjects will be treated in an elementary manner, the mathematical knowledge assumed being no greater than may be required in the Junior Class.

Members of the class are recommended to read Knott's Physics (W. & R. Chambers, Edinburgh, 7s. 6d.), in connection with the lectures. Those who aim at passing merely, will be examined in those subjects only which are fully discussed in class. Those who aim at Distinction will be expected to acquire a more thorough knowledge of Dynamics, and to consult the text-book and other works recommended by the lecturer, on all subjects that may be referred to in the class.

Students are expected both to appear at special examinations, usually held at unspecified dates, and to hand in problem papers for correction and criticism.

Special lectures will be given in connection with this class on the elements of Hydrodynamics, for students taking Courses E, F, G, H. Such students are required to attend these lectures and to read in connection therewith the chapters on Hydraulics in Cotterill and Slade's Applied Mechanics (Macmillan & Co.) They are required also to do the work specified above for Distinction.

A supplementary course of lectures on Acoustics will be given in connection with this class for students who are candidates for the B. Mus. degree. Such students are required to attend the ordinary lectures of the class on the properties of solid and fluid bodies and on sound, as well as the supplementary lectures, to read in connection therewith S. Taylor's Sound and Music (Macmillan & Co.), and to consult such other works as may be referred to in the lectures.

**Senior Physics Class.**

*Mondays and Wednesdays, 10—11 A. M.*

The subjects studied in this class consist of those departments of Physics which are of special importance on account of their industrial applications. They will be treated as thoroughly as is consistent with the employment of elementary mathematical methods, no

greater knowledge of Mathematics being assumed than may be acquired in the Senior Class.

The course being too extensive to be completed in a single Session, different portions will be taken up in alternate years, as follows :

In 1899-1900. Heat, including a discussion of heat engines, and Electricity and Magnetism, including a discussion of dynamo-electric machines. Maxwell's Theory of Heat (Longmans, Green & Co.), and Foster and Atkinson's Electricity and Magnetism (Longmans, Green & Co.), will be used as class books, candidates for Distinction being expected to read privately, the discussions in these books of subjects not fully treated in class, and to give special attention to the solving of problems. Ewing's Steam Engine and other Heat Engines (Camb. Univ. Press) and Thompson's Dynamo-electric Machinery (Spon) will be used as books of reference in the lectures on industrial applications.

In 1900-1901. The Kinematics and Dynamics of a particle, of a rigid body, and of elastic solids and fluids. The Professor's Kinematics and Dynamics (Macmillan & Co.), will be used as text-book, and candidates for Distinction will be expected, not only to acquire considerable power of solving problems, but also to read portions of the text-book not treated in class.

#### Advanced Mathematical Physics Class.

As in the Faculty of Arts (see § 1 (xiii), p. 32).—The "partial course" of study in this class in the fourth year of some of the B. Sc. Courses (§ xxx), consists of the following subjects :—

For 1899-1900 : Kinematics and Dynamics of a particle.

For 1900-01 : Either Thermodynamics or Electrodynamics.

#### Advanced Experimental Physics Class.

As in the Faculty of Arts (see § 1 (xiii), p. 32.)

#### Practical Physics Class.

As in the Faculty of Arts (see § 1 (xiii), p. 33).—Students taking Course B (see § xxx) will devote a considerable portion of their time to physico-chemical methods of experiment ; those in Course C, to illustrative experiments and the determination of simple physical laws ; those in course D, to thermal and electrical experiments ; those in courses E, F, and G, to the elastic properties of bodies and thermal and electrical experiments ; and those in course H, to electrical measurements.

### iii.—CHEMISTRY.

(*McLeod Professorship.*)

Professor..... E. MACKAY, PH. D.

#### Junior Chemistry Class.

*Mondays, Wednesdays and Fridays, 9--10 A. M.*

The lectures in this class deal in an elementary way with the principles of general chemistry. In the earlier part of the course the chemistry of fire, of water and of air is studied, the order of historical development being followed as nearly as possible ; and when

some acquaintance with chemical facts has thus been gained, the fundamental laws of combination are taken up and the atomic theory and chemical formulæ are introduced. This is followed by a study of chlorine and carbon and of the properties of acids and bases. The classification of the elements is then discussed, and thereafter the principal remaining elements are studied, each in connection with the group of elements in the periodic system to which it belongs. The lectures are illustrated as fully as possible by experiments. Examinations, oral or written, are held fortnightly, and occasional written exercises are required.

Every student is required to devote at least three hours per week to laboratory work. The laboratory course is designed to make the student familiar with ordinary laboratory operations and to give him a practical acquaintance with the elementary facts of chemistry. Several common inorganic substances are prepared and studied; simple quantitative experiments are performed; and some time is devoted to elementary work in qualitative analysis.

*Books recommended:* Remsen's *Introduction to the Study of Chemistry* (Macmillan & Co.), or Storer and Lindsay's *Manual of Chemistry* (American Book Co.). In the laboratory, Remsen's *Introduction to the Study of Chemistry* is used.

#### Senior Chemistry Class.

*Tuesdays and Thursdays, 9-10 A. M.*

The lectures in this class are for the first few weeks devoted to a fuller discussion of some of the principles of inorganic chemistry than is given in the Junior Class. The constitution of acids, bases and salts; the determination of atomic and molecular weights; and the principal reactions used in qualitative analysis are the chief topics taken up. The remainder of the year is devoted to organic chemistry. Special attention is given in this part of the course to a study of the experimental evidence upon which the constitutional formulæ of organic compounds are based.

From three to five hours weekly are devoted to laboratory work. This will include a fuller course in qualitative analysis than is given in the Junior Class, and, in addition, the preparation of pure laboratory reagents and of typical inorganic and organic substances.

*Books recommended:* In organic chemistry, Remsen's *Compounds of Carbon* (Macmillan & Co.) In inorganic chemistry references are given to text-books in the library.

#### Advanced Chemistry Class.

*One hour weekly.*

The subjects of study in this class are (*a*) Methods of quantitative analysis; (*b*) History of chemical theory; (*c*) Special topics in organic and inorganic chemistry in connection with the reading prescribed in the Special Course in Chemistry and Chemical Physics.

Different portions of this work are taken up in alternate years. The portions to be studied in 1899-1900 will be announced at the beginning of the session.

#### Advanced Practical Chemistry Class.

Courses are provided in general quantitative analysis, and, so far as the resources of the laboratory permit, in its special branches.

QUANTITATIVE ANALYSIS.—The work in this course is designed to illustrate typical methods in quantitative analysis. It will include



the quantitative estimation of chlorine, iodine, sulphur, nitrogen, phosphorus, silicon, carbon, hydrogen, and of the metals silver, copper, iron, manganese, aluminium, calcium and potassium. Volumetric methods, as well as gravimetric, are employed whenever applicable.

**TECHNICAL COURSES.**—Students having a sufficient training in general quantitative analysis may undertake work in one or more of the following special branches of analysis: (a) Assay of Ores. Ores of the principal metals are assayed in the wet way. Ores of lead and silver are subjected to a furnace assay and the results checked by analysis. (b) Analysis of foods or poisons. (c) Analysis of soils. (d) Analysis of potable waters. (e) Gas analysis.

#### Assaying.

The work of this course will include the assay of ores of the principal metals in the wet way, and the furnace assay of the ores of lead, copper and silver, the results being checked by analysis.

All students doing laboratory work are required to keep a detailed record of their experiments. The character of this record is a factor in determining the standing of a student in the class lists.

The chemical laboratory accommodates about eighty students. A reference library is placed in the laboratory for the use of students doing analytical work.

The laboratory is open daily, Saturdays accepted, from 10 a. m., to 1 p. m., and from 3 to 5 p. m. on Tuesdays, Wednesdays and Thursdays.

#### iv.—MINERALOGY.

Lecturer..... E. MACKAY, PH. D.

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

The instruction in mineralogy is given by means of lectures and laboratory work. The lectures are upon crystallography, the physical character of minerals, and the description of mineral species, and are illustrated by a collection of crystal models and the minerals of the McCulloch Collection. In the laboratory the student at first learns the use of the blow-pipe and the chief blow-pipe reactions. Practice is then given in the determination of minerals by blow-pipe tests and by other methods. At least three hours a week must be devoted to laboratory work.

Students who take this course must have previously taken Junior Chemistry, or an equivalent course in chemistry.

*Text Books:* Williams' *Elements of Crystallography* (H. Holt & Co.); Dana's *Minerals and How to Study them*, and the *Manual of Mineralogy* (Wiley & Son).

#### v.—APPLIED MECHANICS.

Lecturer..... J. G. MACGREGOR, D. SC.

*Tuesdays and Thursdays, 10—11 A. M.*

The object of this class is to study the practical application of Dynamics to the various branches of Engineering. The series of lectures will form a two years course, so arranged that students may

enter the class at the beginning of either year. The subjects studied will be as follows :

In 1899-1900. *Résumé* of the principles of Dynamics.—The Mechanics of Machinery, including (*a*) Kinematics; relative velocities and accelerations; velocity and acceleration diagrams; link-work, wheel-teeth, belts, crms, the screw, conic mechanisms, bevel and skew gearing, parallel motions, etc. (*b*) Dynamics; equilibrium of mechanisms, force and work diagrams, inertia of moving parts, fly-wheels, governors, friction. (*c*) Energetics; production, transmission, and measurement of power, prime movers.—Kennedy's Mechanics of Machinery (Macmillan & Co.) will be used as text book, being supplemented by reference to other works, such as Cotterill's Applied Mechanics (Macmillan & Co.)

In 1900-01. *Résumé* of the Principles of Statics: The Theory of Structures, including the equilibrium and stability of beams, frames trusses, and girders, of chains, cords and ribs, and of abutments, arches and vaults, with straining actions due to loads; the Strength of Materials, including the relation of stress to strain and resistance to stretching, shearing, crushing, bending, twisting, and wrenching. Graphical methods will be studied and practised, Hoskins' Elements of Statics (Macmillan & Co.) being used as text-book. Other books, such as Cotterill's Applied Mechanics (Macmillan & Co.) and Lanza's Applied Mechanics (J. Wiley & Son), will be used for reference.

Students will be expected to acquire considerable power of solving problems, and to read privately, specified portions of books of reference on subjects not fully discussed in class.

## vi.—DESCRIPTIVE GEOMETRY.

*Lecturer*.....S. A. MORTON, M. A.

This course of lectures will include the following subjects; Plane Geometry: construction of scales, construction and areas of plane figures, properties and construction of curves; Solid Geometry: problems on the straight line and plane, projection of lines, planes and solids, simple intersections of planes and solids, easy examples of projection of shadows.

*Books of reference:* Angel's Practical Plane Geometry and Projection, Millar's Descriptive Geometry, Spanton's Science and Art Drawing.

## vii.—DRAWING.

The following classes of the Victoria School of Art and Design are recognized as qualifying for a degree;

The classes in the subjects of Free-hand Drawing, Geometrical Drawing, Shaded Drawing from the Round, Modelling in Clay, Principles and Practice of Decorative Design, and Elements of Perspective. This course of instruction extends over three years, and is the one to be taken by students preparing for Science Master-ships in Schools.

The classes in Mechanical Drawing, including Practical Geometry, Descriptive Geometry, Projection of Lines, Planes and Solids, Sections by Planes, Developments, Penetrations, Curved Surfaces and Surfaces of Revolution, Preparation of Working Drawings of

Machines to scale. This course of instruction extends over three years, and is the one to be taken by Engineering Students.

The class in Building Construction and Architecture may be taken by Civil Engineering Students instead of the third year of the Mechanical Drawing Class.

Information as to fees, &c., may be obtained on application to Mr. A. McKay, Secretary of Victoria School of Art and Design, Barrington St., Halifax.

### viii.—CIVIL ENGINEERING.\*

Lecturer.....M. MURPHY, D. SC., C. E., *Provincial Engineer.*

*Once a fortnight.*

The subjects treated will be:—Materials and Constructions; Earth-work; Masonry; Carpentry; Structures of Timber, Stone and Iron; the Construction of Common roads; Railways; Bridges; Water Supply for Towns; and Reclamation of land from the sea.

Such works as are named above are generally in operation in Nova Scotia, under the supervision of the Provincial Engineer, and advanced students in the Engineering class will be afforded an opportunity of examining them under construction.

Text-books and books of reference will be announced at the opening of the class.

### ix.—SURVEYING.

Lecturers . { R. MCCOLL, M. Can. Soc. C. E., *Asst. Prov. Engineer.*  
                  { H. W. JOHNSTON, M. Can. Soc. C. E., *Asst. City Engineer.*

**Junior Class.**

*Once a week.*

The subjects treated will be Chain and Angular Surveying; use and adjustment of Compass, Sextant, Level (Dumpy, Wye, &c.), Transit, Theodolite, Aneroid Barometer; Plotting; Topography and Contouring.

Practical operations will be carried on in the field, and will include (1) Survey with Compass and Chain, (2) Triangulation with Sextant, (3) Road traverse with Compass, Sextant and Chain, (4) Road traverse with Transit and Chain, (5) Contour Survey, (6) Survey with Transit and Level, (7) Cross-sectioning with Level, (8) Cross-sectioning with hand level and levelling rods.

**Senior Class.**

*Once a week.*

Preliminary Survey, Location of a Railway, Laying out Work, Calculating and Estimating Quantities, Hydrographic Surveying, Mining Survey.

Students will be expected to keep complete notes, and to prepare all drawings required from them.

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\*If there should not be a sufficient number of students to form a class in this subject, the lectures will not be given, but the student will pursue a course of reading under the supervision of the Lecturer.

### x.—MINING.\*

Lecturers ..... (E. GILPIN, JR., A. M., LL D.  
C. ARCHIBALD, M. E.

Courses of lectures will be given on the following subjects :

Geology in relation to Mining, Occurrence of Veins and Beds, Prospecting, and Preliminary Operations.

Shaft and Slope Sinking, Mining Operations, Ventilation, Valuation of Properties.

Pumping, Hoisting, Mining Appliances, Cleaning of Ores and Coal.

*Text Books* (preliminary list): Smith's Coal Mining; Andre's Treatise on Coal Mining; Chance's Coal Mining, Pennsylvania; Dana's Metalliferous Mines; Merrivale's Notes and Formulæ; Geikie's Outlines of Field Geology; Ihlseng's Manual of Mining.

### xi.—HYDRAULIC ENGINEERING\*.

Lecturer.....C. E. W. DODWELL, B. A., M. I. C. E.

*Once a fortnight.*

The subjects treated will be as follows :

Flow of water through orifices and short tubes, and in pipes and open channels.

Water supply to cities and towns; Quantity and quality necessary; Rainfall, watershed, springs, wells, lakes and rivers; Storage of water in natural and artificial reservoirs; Measuring weirs and stream gauging; Filtration and other methods of treating impure waters; Construction of dams of stone, earth and timber; Details of Construction of a town supply; Mains and distribution pipes, thickness, weight, strength, methods of moulding, preserving and laying; Valves, hydrants, &c.; Pumping engines.

Turbines and water-wheels.

River improvements.

### xii.—MUNICIPAL ENGINEERING.\*

Lecturer.....F. W. W. DOANE, C. E.

*Once a fortnight.*

The subjects treated will be:—Streets,—laying out, opening, formation, sidewalks, paving, cleaning, sprinkling, street railways, obstructions, &c.; works of sewerage—grades, materials, foundations, sectional form, course, ventilation, flushing, subsoil drainage, intercepting sewers, sewage disposal, &c.; house drainage and plumbing, roof water disposal, cesspits, disposal of garbage, &c.; water supply, plumbing—service pipes, stopcocks, effect and prevention of waste, &c.

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\*If in any year there should not be a sufficient number of students to form a class in this subject, the lectures will not be given, but the students will pursue a course of reading under the supervision of the Lecturers.

## xiii.—BOTANY.

Lecturer.....

*Two hours a week.*

The course in Botany will have special reference to the following subjects : Protoplasm and Plant-cells, the Tissue and Tissue Systems of Plants, Morphology of the Plant-body, Plant Physiology, the Principles of Classification and the Laws of Distribution, the Protophyta (Schizophyceæ), the Phycophyta (Chlorophyceæ and Phæophyceæ), the Carpophyta (Rhodophyceæ, Ascomyceteæ and Basidiomyceteæ specially), the Bryophyta (Mosses and Liverworts), the Pteridophyta (Ferns, Horse-tails and Club-mosses), the Anthophyta (specially the Coniferæ, Gramineæ, Orchidaceæ, Liliaceæ, Urticaceæ, Labiataæ, Compositæ, Umbelliferæ, Rosaceæ, Leguminosæ, Cruciferæ, Ranunculaceæ). The Morphology and life history (the Anatomy, Histology and development) of at least two common or representative species of each group of plants above named, in minute detail.

General attention will be given to the native *flora* of the Province, with special notice of foreign as well as native species of interest from economic, medicinal or injurious properties.

The preliminary study of Botany as indicated in Grade IX of the Public School Course, and especially the formation of a local collection of plants, even if unnamed and unclassified, will be an advantage to any student entering upon the course.

Practical instruction will be given in the collecting, drying and mounting of specimens, the use of the microscope, the preparing of microscopic sections, and the general dissection of plants. The use in class of a number of microscopes will be granted the students under the care and direction of the lecturer ; but a hand lens, glass slides, cover glasses, scalpels and other apparatus or books necessary to each student, must be supplied by each for himself.

Students of the C or D Course are required in addition, during the summer vacation, to engage in practical botanical work, and to present, on entering their second year, either a report upon microscopical work in some special department during the summer, or a collection of specimens of native plants of the district of their residence, properly prepared and named, accompanied by a systematic catalogue.

## xiv.—ZOOLOGY.

Lecturer..... A. HALLIDAY, M. D.

*Two hours a week.*

The work of the class will consist of a course of lectures supplemented by practical work.

The following subjects will be treated of in the lectures :—Organic and inorganic bodies ; Life, Vital Action, &c. ; Differences between plants and animals, Morphology, Physiology. Differences between Animals, Specialisation of function, Morphological Type, Von Baer's Law of Development, Origin of Species, Homology, Analogy, Reproduction, Distribution in Time and Space, Evolution, Classification. Also the general characters of the several subkingdoms will be treated of as fully as possible.

The practical part of the course will consist of dissections by students themselves and demonstrations, microscopic, &c.

The object of the class will be to give such a comprehensive idea of the Animal Kingdom, as will form a good basis for anyone wishing to prosecute still further the study of Biology or Comparative Anatomy and Physiology.

Students intending to take the class will have to provide themselves with the following articles:—1 pair forceps, 1 pair scissors, 1 or 2 dissecting needles and knives, a razor and a small hand lens.

The total cost of these articles will be about \$3.00. As they will not be required for the first week or two they need not be purchased till the opening of the class, when more information will be given.

*Text Book*: The text-book will be announced at the beginning of the session. *Reference Text Books*: Anatomy of Vertebrates and Invertebrates, Huxley, 2 vols.; Text Book of Zoology, Claus & Sedgwick, 2 vols.

#### xv.—PHYSIOLOGY (INCLUDING EMBRYOLOGY).

The University provides no instruction in this subject, but the class conducted in the Halifax Medical College by Professor L. M. Silver, M. B., and C. D. Murray, M. B., is recognized as qualifying for a degree. The class meets on Tuesdays, Thursdays and Saturdays, at 11—12 A. M., and for part of the Session on Tuesdays at 5—6 P. M. for Embryology. The fee for the course is \$15.00.

Undergraduates who take this class as part of Course C (§ xxx), are not required to attend the lectures on Embryology or to pass an examination on that section of the class work, unless they wish at the same time to satisfy the requirements of the Medical Faculty.

Undergraduates who have taken this class as part of their courses are required either to present a certificate of having passed the examination of the Faculty of Medicine or to pass an examination conducted by the Examiner of this Faculty. In the latter case a fee of \$3.00 is to be paid to the Examiner.

#### xvi.—HISTOLOGY.

The University provides no instruction in this subject, but the class conducted by Professor G. M. Campbell, B. A., M. D., in the Halifax Medical College, is recognized as qualifying for a degree. The class meets on Mondays, Wednesdays and Fridays, at 11—12 A. M. The fee for the course is \$15.00.

The regulations as to examinations are the same as in the case of Physiology, the fee payable being \$3.00.

#### xvii.—ANATOMY.

The University provides no instruction in this subject, but the Junior or the Senior Anatomy Class and the Practical Anatomy Class, conducted in the Halifax Medical College by Professor A. W. H. Lindsay, M. D., are recognized as qualifying for a degree. The Junior Anatomy Class meets on Mondays, Wednesdays, and Fridays, at 10—11 A. M. The Senior Class meets on Tuesdays, Thursdays and Saturdays, at 10—11 A. M. The fee for either of these classes is \$15.00. The Practical Anatomy Class meets daily, 3—5 P. M.; fee \$15.00.



## Class of the Practice of Education.

Lecturers ..... { ALEX. MCKAY, ESQ.  
 { W. T. KENNEDY, ESQ.

The work of this class will consist of (a) Lectures on School Management and School Law by Prin. Kennedy; (b) Lectures by Professors of the College and Prominent Teachers, on Educational subjects; (c) Observation of the practice of successful teachers, and practice in conducting schools; and (d) Discussions by Supervisor McKay, on points raised in the course of the observation and practical experience of the class.

Members of the class who pass satisfactory examinations on the subjects studied, and are favorably reported upon by Mr. McKay, the supervisor of their practical work, will be granted certificates showing the standard of excellence attained and the time spent in practice.

Students who take this class as part of Course C for the degree of B Sc. (§ xxx) will be required to spend 150 hours in practical work (including actual teaching and observation of teaching) under supervision approved by the Faculty. Those who take the class as part of the Course for the Diploma of Literate in Education (§xxxvi) will be required to spend 300 hours in practical work.

*Useful Books*: DeGarmo's *Essentials of Method*; Fitch's *Lectures on Teaching*; McMurray's *General Method*; Baldwin's *School Management*; *School Law of Nova Scotia*, 1892.

## xx.—THEORY AND HISTORY OF MUSIC.

The classes in the Theory of Music conducted in the Halifax Conservatory of Music by Mr. C. H. Porter, Director, and Mr. Newman Athol, and those in the History of Music conducted by Rev. R. Laing, M. A., 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, &c., may be obtained on application to the Director of the Conservatory.

## xxi.—ENGLISH.

Professor.....ARCHIBALD MACMECHAN, PH. D.

As in the Arts Faculty, (§ I (v), p. 23).

## xxii.—FRENCH AND GERMAN.

Professor.....J. LIECHTI, M. A.

As in the Arts Faculty, (§ I (iv), p. 20).

§ XXVI.—**The Academic Year** consists of one Session. The Session of 1899–1900 will begin on the 5th September, 1899, and the end on the 24th April, 1900.

§ XXVII.—**Admission of Students.**—The regulations for the admission of students to the classes of this Faculty are the same as in the Faculty of Arts (§ iii, p. 36).



§ XXVIII.—**Degrees.**—(1.) Three baccalaureate degrees are conferred in the Faculty of Science, viz., Bachelor of Science (B. Sc.), Bachelor of Engineering (B. E.), and Bachelor of Music (B. Mus.) The degree of B. E. (§ XLII) is conferred only on persons who have already obtained the degree of B. Sc. Candidates for the B. Sc. and B. Mus. degrees must attend with regularity the classes of their courses of study as prescribed in §§ vii and xxxvi, perform the exercises required, and appear at the examinations held, in connection with such classes, and secure a position on the Pass Lists in all subjects. The courses of study for B. Sc. extend over four years, that for B. Mus. over three years; but in the case of students who enter at advanced stages, they may be completed in a shorter time.

(2.) Persons may become candidates for degrees by passing the Junior or Senior Matriculation Examination. Those who pass the Senior Matriculation Examination are exempted from attending the classes recommended in §§ vii and xxxvi to be taken in the first year of attendance, and may complete the B. Sc. course in three, and the B. Mus. course in two, years, respectively. In general the Matriculation examination is to be passed by a student before he enters upon a course of study leading to a degree.

(3.) General students who have attended some of the classes in any course of study and passed in the subjects of them, may become candidates for a degree in such course by passing one of the Matriculation Examinations, in which case the classes previously attended will be recognized as qualifying for a degree. But in those subjects of the Matriculation Examination in which they have previously attended classes, such students will be expected to show a higher proficiency than if they had passed the examination at the beginning of their course.

(4.) Undergraduates who have completed a portion of their Science or Music Courses either in this University or in other approved Colleges or Schools, will be admitted to such advanced standing in the courses leading to the above degrees as the subjects which they have studied may seem to warrant, and arrangements will be made to enable them to complete the courses in as short a time as possible.

§ XXIX.—**Matriculation Examinations.**—(1.) The Junior Matriculation Examination by which a student may gain entrance to the first year of the science or music courses in this Faculty, is the same as that prescribed for candidates for entrance into the first year of the B. L. Course in the Faculty of Arts. The regulations as to distinction, exemptions, dates, &c., are the same as in the case of the Junior Matriculation Examination of the Faculty of Arts. (See § v., p. 37.)

(2.) The subjects of the Senior Matriculation Examination by which a student may gain entrance to the second year of the various courses in this Faculty, are the subjects of the Junior Matriculation Examination and of the first year of the course on which he wishes to enter (§§ xxx and xxxvi.) The regulations as to exemptions, dates, &c., are the same as in the case of the Senior Matriculation Examination of the Faculty of Arts. (See § vi., p. 39).

(3.) The regulations of §§ v and vi with respect to Scholarships are applicable in the case of students entering the B. Sc. Courses, but not to those entering the B. Mus. Course.

**§ XXX.—Courses of Study for Degree of B. Sc.—**Eight Courses of Study are provided, which lead to the degree of B. Sc. They are as follows :—

Course A has Mathematics and Physics as main subjects, and is suited to the requirements of students who wish to prepare themselves for higher teaching positions in these departments, or to obtain a thorough groundwork for a subsequent course in Engineering.

Course B has Experimental Physics and Chemistry as main subjects, and is intended to enable students to prepare themselves for higher teaching positions in these departments, or for engaging in chemical industries.

Course C includes a study of various sciences, of English and other Modern Languages, of Drawing, and of Education, and is designed to prepare students to discharge the duties of Science Teachers in High Schools.

Course D has as main subjects Chemistry and Biology, and is especially suitable for students who intend to enter upon the study of Medicine. It includes a sufficient number of the scientific subjects of the medical curriculum to enable the student to shorten his subsequent medical course by one year. Students taking this course should matriculate in the Faculty of Medicine at as early a stage as possible. Classes taken in this course which are common to it and the M. D. C. M. course, are recognized as qualifying for that degree, provided the student has already matriculated in Medicine, and follows in other respects the regulations of the Faculty of Medicine.

Courses E, F, G, H, though not technical courses, are intended for students who aim at becoming Civil, Mechanical, Mining or Electrical Engineers respectively. Their main subjects are Mathematics, Physics (including Dynamics), Applied Mechanics, and Drawing, and they include also courses of lectures on the practice of different departments of Engineering, offered by leading engineers of the City of Halifax. Course

H includes the foundation of pure science, and the earlier stages of the practical study of electricity, which are necessary for the electrical engineer.

The following is a statement of the classes which must be attended in the above courses. Details as to the subjects studied in these classes will be found under Courses of Instruction (§ xxv.) Classes to which the letters A, B, &c., are attached, are to be taken in the Courses indicated above by the same letters. Those to which no letters are attached, are common to all the Courses.

#### First Year.

- (1.) Junior Mathematics.
- (2.) Junior Chemistry.
- (3.) For A, B, E, F, G, H, Drawing. For C, D, Botany.
- (4.) First English.
- (5.) French.
- (6.) German.

Undergraduates in Courses C and D are required to present on entering their Second Year, either a report upon microscopical work in some special department conducted during the summer, or a collection of specimens of native plants of the district of their residence, properly prepared and named, accompanied by a systematic catalogue.

#### Second Year

- (1.) Senior Mathematics.\*
- (2.) Junior Physics.\*
- (3.) For B, C, D, Senior Chemistry. For A, E, F, G, H, Practical Chemistry.
- (4.) Drawing.
- (5.) Second English.
- (6.) For B, D, French or German. For A, C, E, F, G, H, Descriptive Geometry.

#### Third Year.

For A.—Advanced Mathematics; Senior Physics; Mental Science; French or German.

For B.—Senior Physics; Advanced Practical Chemistry; Mineralogy; Practical Physics; French or German.

For C.—Practical Physics; Advanced Practical Chemistry; Mental Science; French or German; Drawing; Education (Theory and History, and Practice); Zoology.

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\* Undergraduates taking Courses A, E, F, G, H, and those taking B, if they are to enter the Special Course in Chemistry and Chemical Physics, must give special attention to Mathematics in the second year. Unless they pass a satisfactory examination in this subject, including the additional work for Distinction, they are not allowed to enter the Advanced Mathematics Class in the third year. Undergraduates taking the above courses are required also to take the additional work for Distinction in the Junior Physics Class.

- For D.—Practical Physics ; Advanced Practical Chemistry ; Mental Science ; French ; German ; Zoology.
- For E.—Advanced Mathematics (partial course) ; Senior Physics ; Applied Mechanics ; Drawing ; Surveying ; French or German.
- For F.—Advanced Mathematics (partial course) ; Senior Physics ; Applied Mechanics ; Drawing ; Surveying ; French or German.
- For G.—Advanced Mathematics (partial course) ; Senior Physics ; Applied Mechanics ; Mineralogy ; Drawing ; Surveying ; Advanced Practical Chemistry.
- For H.—Advanced Mathematics ; Senior Physics ; Practical Physics ; Applied Mechanics (Mechanics of Machinery) or Drawing ; Advanced Practical Chemistry (in either 3rd or 4th year).

#### Fourth Year.

- For A.—Advanced Mathematics ; Senior Physics ; Advanced Mathematical Physics ; French or German or Practical Physics.
- For B.—Senior Physics ; Practical Physics ; Advanced Practical Chemistry ; French ; German.
- For C.—Advanced Practical Chemistry or Practical Physics ; Mineralogy ; Physiology ; Drawing ; French or German ; Education (Practice).
- For D.—Advanced Practical Chemistry ; Physiology, including Embryology ; Anatomy ; Practical Anatomy ; Histology ; French or German. (An undergraduate taking Course D, who wishes his fourth year to qualify for a medical degree, must previously to his entering upon it, have satisfied the requirements of the Medical Faculty with regard to Matriculation and must also satisfy its requirements in all other respects.—See Faculty of Medicine.
- For E.—Advanced Mathematics (partial course) ; Senior Physics ; Advanced Mathematical Physics (partial course) or Practical Physics ; Applied Mechanics ; Mineralogy ; Surveying ; Civil Engineering ; Hydraulic Engineering ; Municipal Engineering.
- For F.—Advanced Mathematics (partial course) ; Senior Physics ; Advanced Mathematical Physics (partial course) ; Practical Physics ; Applied Mechanics ; Civil Engineering ; Hydraulic Engineering.
- For G.—Advanced Mathematics (partial course) ; Senior Physics ; Applied Mechanics ; Assaying ; Mining ; Surveying ; Civil Engineering ; Hydraulic Engineering.

For H.—Advanced Mathematics; Advanced Mathematical Physics (partial course); Senior Physics; Practical Physics; Drawing or Applied Mechanics (Mechanics of Machinery); Municipal Engineering.

§ XXXI.—**Special Courses for Degree of B. Sc.**—

(1.) An undergraduate shall be allowed during the third and fourth years of his B. Sc. course, to restrict his attention to a more limited range of subjects than that of most of the above ordinary courses, provided his standing at the examinations of the first and second years, especially in the subjects corresponding to the Special Course on which he proposes to enter, seems to the Faculty to warrant such restriction.

Special Courses are provided in the following departments :

(1) Pure and Applied Mathematics; (2) Mathematics and Physics; and (3) Chemistry and Chemical Physics.

An undergraduate taking a special course in any of these departments shall be required to attend the Advanced Classes provided in the subjects of such department (see § xxv.), to make progress satisfactory to the Professors who conduct such classes, and to pass at the end of the fourth year, an examination in the subjects of such department; and he shall in some cases be allowed to omit from the ordinary course he is pursuing, certain subjects specified below.

(2.) The Special Course in **Pure and Applied Mathematics** is open to undergraduates taking the ordinary courses A, E, F, G, and H. Those taking course A may substitute Practical Physics for Mental Science in the Third Year. Those taking courses E, F, G, and H, must take the complete courses in Advanced Mathematics and Advanced Mathematical Physics. In course E, any two of Senior Physics (Heat and Electricity), Applied Mechanics (Mechanics of Machinery) and Mineralogy, may be omitted. In course F, Assaying and Applied Mechanics (Theory of Structures) may be omitted. In course G, Applied Mechanics (Theory of Structures) and Civil Engineering may be omitted. In course H one subject to be approved by the Dean may be omitted in the Fourth Year.

The subjects of examination and other regulations are the same as in the corresponding course in the Faculty of Arts (see § viii (11) p. 48).

(3.) The Special Course in **Mathematics and Physics** is open to undergraduates taking the ordinary course A. They are recommended to take German in the second as well as the first year. They are required, if they wish to complete the course in two years, to take in their third year, Advanced Mathematics, Senior Physics, Practical Physics, Senior Chemistry, Practical Chemistry, and (if not taken in the second year)

German; and in their fourth year, Advanced Mathematics, Advanced Mathematical Physics, Advanced Experimental Physics, Senior Physics and Practical Physics. They are advised, however, to take three years rather than two to complete the course.

They will be required in the course of their laboratory work in Physics and Chemistry to prove their ability to make accurate determinations of physical constants, to conduct investigations of physical laws, and to carry out qualitative and quantitative analyses (both gravimetric and volumetric) of inorganic bodies.

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 the examination and other regulations will be the same as in the corresponding Special Course of the Faculty of Arts (§ viii (12) p. 49.)

(4.) The Special Course in **Chemistry and Chemical Physics** is open to undergraduates taking the ordinary course B. They are recommended strongly to select German as one of the subjects of their second year. They are required in their third year to take the following classes:—Advanced Practical Chemistry, Advanced Mathematics (partial course), Junior Physics (with work in the Laboratory), Senior Physics, and German; and in the Fourth Year, the following classes:—Advanced Practical Chemistry, Advanced Mathematics (partial course), Advanced Experimental Physics, Senior Physics and Practical Physics.

The subjects of examination and other requirements will be the same as in the corresponding Special Course of the Faculty of Arts (§ viii (13) p. 50).

§ XXXII.—The Degree of **B. Sc. with Distinction** will be conferred on the same conditions as the corresponding degree in the Faculty of Arts (§ xi, p. 52.)

§ XXXIII.—The Degree of **B. Sc. with Honours** in departments in which special courses are provided in this Faculty, will be conferred on the same conditions as the corresponding degree in the Faculty of Arts (§ xii, p. 52).

§ XXXIV.—**Medals, Prizes, and Matriculation Scholarships.**—The Sir William Young Gold Medal, the University Medals, and the Sir William Young and Professors' Scholarships and Mackenzie Bursary (awarded at matriculation) are open for competition to undergraduates of, or candidates for matriculation in, the B. Sc. courses of this Faculty. See §§ v, xv, pp. 37, 54.

**§ XXXV.—1851 Exhibition Science 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, 1896, and 1898 they placed the nomination to one of these Scholarships at the disposal of this University, and it is expected that a similar nomination will be placed at the disposal of the University for the year 1900.

These Scholarships are of the annual value of one hundred and fifty pounds sterling, are tenable for two years, subject to the fulfilment of certain conditions mentioned below, or, by special resolution of the Commissioners, for three years, and are open to women as well as men.

The following were the conditions of nomination in 1898 :

- (a) The nominee must be a British subject.
- (b) He (or she) must, at the date of the nomination, have been for a term of three years a *bonâ fide* Student of Science in a University or College (or in Universities or Colleges), in which special attention is given to scientific study,—a graduate who has continued to be a student at a College after graduation being regarded as a student.
- (c) He must have been a student of Dalhousie College either during the academic year, at the end of which the nomination is made, or during the previous year; but in the event of his having ceased to be a student of Dalhousie College at the end of the previous year, he must have been engaged during the year of nomination solely in scientific study.
- (d) He must have indicated high promise of capacity for advancing Science or its applications by original research. Evidence of capacity for original research in Science is strictly required, this being one of the main qualifications for a scholarship; and the nominee will be selected from the students qualified for nomination mainly on the ground of superiority in this respect, though the general proficiency attained in the study of Science, special knowledge of departments of Science closely related to that to which the candidate intends to devote himself, and knowledge of such subjects as French and German, which are useful in the prosecution of research, will also be taken into account.
- (e) There is no absolute restriction as to age; but a nominee whose age exceeds 30 will only be accepted by the Commissioners under very special circumstances.

The nomination which is to be made by this University to the Commissioners in London, will be referred by them to a committee of eminent scientific men, who will advise them upon it; and the nomination will take effect on its being confirmed by the Commissioners.

The scholarship may be held at any University in the United Kingdom or abroad, or in any other institution to be approved by the Commissioners, the only restriction being that the institution

selected shall be properly equipped for the prosecution of Science. But a scholar will be required, in the absence of special circumstances, to proceed to an institution other than that by which he is nominated.

The scholar, during his tenure of the Scholarship, must devote himself wholly to study and research, more especially in some branch of Science, such as Physics, Mechanics, or Chemistry, the extension of which is especially important to our national industries; and he is not allowed during such tenure to hold any position of emolument.

The continuance of the Scholarship for the second year is dependent on the work done in the first year being satisfactory to the Scientific Committee appointed by the Commissioners.

Only one-fourth, at most, of the Scholarships granted in any one year, are renewed for a third year, the renewals being awarded to the most deserving of the candidates.

The conditions for the exceptional renewal of Scholarships for a third year are as follows :

(1) The scholar shall have published in the Proceedings of some Scientific Society, or in some Scientific Journal, an account, approved by the Scholarships Committee, of an adequate research.

(2) The scholar shall satisfy the Committee :—

That a continuance of the Scholarship for a third year is likely to result in work of scientific importance.

That such work is not likely to recompense the scholar pecuniarily.

That the scholar is not in a position to continue the work without the help of the Scholarship.

That the scholar intends, after the expiration of the Scholarship, to adopt a pursuit in which his studies during the Scholarship, will find useful practical application.

(3) The scholar shall undertake to make a detailed report to the Commissioners, of his work during the third year.

(4) The conditions on which the Scholarship was originally granted shall apply in all respects to its continuance during the third year.

The scholarship is payable half-yearly in advance (through the Treasurer of this University, if the scholar study in America); but £25 will be reserved from the last payment until the scholar has made a satisfactory final report.

The candidate nominated is required by the Commissioners to sign the following declaration :—

I, the undersigned, hereby declare that the particulars concerning me mentioned in the foregoing form are correct, and I undertake that, if a Science Research Scholarship is awarded to me, I will hold it subject to the conditions laid down by Her Majesty's Commissioners for the Exhibition of 1851 with reference thereto, and I will, during its continuance, wholly devote myself to the objects of the Scholarship, and I will not during such continuance hold any position of emolument.

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, 1900. 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 tenure of Scholarship.

(*f*) Statement of the particular scientific work, specifying the branch of a science, to which the candidate proposes more especially to devote himself.

As this 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 on the University records. Thus age, attendance at other Universities or Colleges, and accounts of original researches conducted elsewhere, must be properly attested.

### § XXXVI.—Course of Study for Degree of B. Mus.

—The Course of Study includes, besides English and Acoustics, the following subjects:—Harmony, Counterpoint, Canon and Fugue, Form, and History of Music, for two years in each case, Instrumentation and Analysis of Scores, for one year.

Candidates are required besides attending the courses of instruction in the above subjects (§ xxv.), performing the required class exercises and passing the examinations, to compose, themselves, the exercises specified below, and to give evidence of their ability as musical performers by playing before one or more of the Examiners, on the Piano-forte or Organ (pipe), the pieces of music mentioned below.

(2.) The classes in the above subjects need not be taken in any one definite order and may be extended over more than three years, but students are recommended to take them in the following order:—

FIRST YEAR.—(1) Harmony in not more than four parts; (2) History of Music from 1600 to 1750; (3) Acoustics in so far as connected with the Theory of Music; (4) English.

SECOND YEAR.—(1) Harmony in not more than five parts; (2) Simple Counterpoint in two or three parts; (3) Canon in two parts, Imitation and Fugue in not more than three parts; (4) Form: Elementary Forms, Phrases, Periods, Open and Closed Forms; (5) Elements of Instrumentation; (6) History of Music from 1750 to the present time; (7) English.

THIRD YEAR.—(1) Single and Double Counterpoint in not more than five parts; (2) Strict and Free Fugue in not more than five parts; (3) Form; Binary Form, Ternary Form, Rondo and Sonata; (4) Analysis of certain prescribed scores.

Exercises to be composed by the candidate: (*a*) A solo song with piano-forte accompaniment; (*b*) A four part vocal composition; (*c*)

An instrumental composition (other than a dance), for Piano-forte, Organ, or other stringed or wind instruments with Piano-forte accompaniment.

The final examination in the practice of Music will include one of the following groups :—

**For the Pianoforte.**

Prelude and Fugue in E minor.....	<i>Mendelssohn.</i>
C major Sonata (Waldstein).....	<i>Beethoven.</i>
A $\flat$ major Polonaise.....	<i>Chopin.</i>
D $\flat$ major Nocturne.....	“
Concert-Etude No. 1, (Waldesrauschen)....	<i>Liszt.</i>
Rhapsodie, No. 12.....	“

**For the Organ.**

Prelude and Fugue in E major.....	<i>Bach.</i>
Sonata in D minor (solo form).....	<i>Merkel.</i>
Air with Variations and Fugato in A.....	<i>Smart.</i>
Third Organ Sonata.....	<i>Mendelssohn.</i>

**§ XXXVII.—Short Courses of Study for General Students.**—(1.) For the benefit of students who may be unable to spend four full years at the University, but may be able to give full attendance for shorter periods, or to attend a small number of classes for a series of years, short courses of study have been arranged.

Students entering on these courses are not required to pass any preliminary examination ; but they are recommended not to enter classes in which some knowledge of the subject is assumed, without first consulting the Professors as to their ability to enter with profit upon the work of the classes.

To students who attend the classes of these courses with regularity, show diligence in the class work, and succeed in passing the examinations, certificates will be issued stating the nature of the course pursued, and the degree of success attained.

The details of the subjects studied in the classes mentioned below will be found under Courses of Instruction (§ xxv).

(2.) **Short Course for Teachers.**—This course is intended to provide a thorough, systematic and practical training in education, together with a practical study of scientific subjects, such as will enable the student to present and illustrate such subjects adequately in the school.

It consists of the following classes (§ xxv) :—Mental Science (Psychology Course), History and Theory of Education, Practice of Education, Practical Chemistry, Practical Physics, Mineralogy, Physiology, Botany, Zoology, and Drawing.

**Diploma of Literate in Education (L. E.)**—This Diploma will be awarded to students who have taken the above course, on the following conditions :

(a) Before entering upon it they must furnish evidence of general education, equal at least to that implied in the possession of the "B" Certificate of the Nova Scotia Education Office.

(b) They must pass satisfactory examinations in the subjects of the classes mentioned above, and receive the favorable report of those who conduct practical classes on their practical work.

(c) In connection with the Class of Practice of Teaching, they must have spent at least 300 hours in practical work (including actual teaching and observation of teaching) under approved supervision ; but a portion of this practical work may have been carried out in the summer vacation, provided it be under the supervision of Teachers, approved by the Faculty.

(d) The Course in Drawing must include at least 60 lessons, and must be in the department outlined in § xxv (vii).

(e) They must furnish certificates from teachers approved by the Faculty, of having attended a course of instruction of at least 30 lessons in Manual Training, and of having acquired proficiency both in this subject and in School Music (Tonic Sol-Fa notation.)—Instruction in both these subjects may be obtained in the city of Halifax.

**(3.) Short Course introductory to Medical Study.**—This course includes the more difficult subjects of the Medical Matriculation Examination, together with a sufficient number of the subjects of the Medical Curriculum to constitute an *annus medicus*. It is as follows :

FIRST YEAR :—Latin ; English ; French ; Mathematics ; Junior Chemistry.

SECOND YEAR :—Junior Physics ; Senior Chemistry ; Mental Science ; Botany ; Anatomy.

**(4.) Short Courses for Engineering Students.**—The following courses are intended for students who are unable to give full attendance, but can give partial attendance for a number of years :

(a) CIVIL ENGINEERING. — Mathematics (Junior and Senior) ; Descriptive Geometry ; Drawing ; Junior Physics ; Senior Physics (Dynamics) ; Applied Mechanics (Theory of Structures and Strength of Materials) ; Surveying ; Civil and Hydraulic and Municipal Engineering.

(b) MECHANICAL ENGINEERING. — Mathematics (Junior and Senior) ; Descriptive Geometry ; Drawing ; Junior Physics ; Senior Physics ; Applied Mechanics (Mechanics of Machinery) ; Hydraulic Engineering.

(c) **MINING ENGINEERING.**—Mathematics (Junior and Senior); Descriptive Geometry; Drawing; Junior Physics; Senior Physics; Applied Mechanics; Chemistry; Practical Chemistry; Mineralogy; Mining; Surveying; Civil and Hydraulic Engineering.

(d) **ELECTRICAL ENGINEERING.**—Mathematics (Junior and Senior); Descriptive Geometry; Drawing; Junior Physics; Senior Physics; Practical Physics; Applied Mechanics (Mechanics of Machinery).

§ **XXXVIII.—Classes for Artisans.**—Classes are organized from time to time for artisans and other persons who are engaged in forms of work involving the application of scientific knowledge. These classes are usually held in the evening. Announcements with regard to them are made at the beginning of the Session.

§ **XXXIX.—Attendance.**—The regulations as to attendance of students are the same as in the Faculty of Arts. (See § IX, p. 51.)

§ **XL.—Examinations.**—The regulations as to Examinations are the same as in the Faculty of Arts. (See § X, p. 51.)

§ **XLI.—Residence, Church Attendance, and Discipline.**—The regulations as to residence, church attendance, and discipline, in this Faculty, are the same as in the Faculty of Arts. (See § XVII—XIX, p. 56).

§ **XLII.—The Degree of Bachelor of Engineering (B. E.)** will be conferred on a Bachelor of Science who has taken the Degree in one or other of the Departments of Engineering, at any date not less than one year after graduation, provided he satisfy the following conditions :

(1.) He must furnish certificates from an engineer or engineers, approved for this purpose by the Faculty, showing that he has been engaged in practical work in some one department of engineering under their supervision for a period of at least two years, and that he has exhibited satisfactory diligence and progress. A part, or the whole, of this time may be spent in any approved Engineering School which possesses workshops or testing laboratories.

(2.) He must hand in to the Faculty designs for some constructive work, prescribed by the Faculty, in the department in which he has been engaged in practical work, the designs to be accompanied by complete working drawings giving full details, bills of materials and estimates. The designs must be accompanied by a declaration to the effect that he has received no assistance in preparing them; and he will be required to explain and defend them before the examiners.

(3.) Candidates for this degree must send their designs, &c., to the Dean of the Faculty on or before the first of March, and must, at the same time, pay a fee of Twenty Dollars.

**§ XLIII.—The Degree of Master of Science (M. Sc).**

—The degree of Master of Science will be conferred on a Bachelor of Science of at least one year's standing and of good character, either on his submitting to the Faculty a satisfactory thesis embodying the results of original research in some department of pure or applied science, or on his passing an examination in a course of scientific study, appointed or approved by the Faculty, of about the extent represented by the academic work of one year of the B. Sc. Course. In the latter case no fixed courses of study are laid down, the intention being to encourage graduates to prosecute advanced courses of study either at this or at any other University, or by private reading, and to adapt the courses to their individual tastes and capacities; but no course of study will be approved unless it is confined either to one department of science, or to closely related departments.

Theses must be sent to the Dean of the Faculty on or before the first of March. Examinations will be held ordinarily at the time of the Spring Examinations; but in special circumstances they may be held in the autumn. Candidates must give one month's notice of their intention to appear for examination.

On transmitting the thesis, or on giving notice of intention to appear for examination, candidates must pay a fee of Ten Dollars. In any case in which the degree is not granted the candidate will be allowed to make a second application for the degree, either by thesis or examination, without payment of fee.

**§ XLIV.—Admission ad eundem gradum.**—Graduates in Science or in Music of Universities approved by the Senate, who have received their degrees in course, may be admitted *ad eundem gradum* in this University, on producing satisfactory proof of character and academic standing, and on payment of a fee of \$10.

**§ XLV.—Academic Costume.**—Undergraduates and general students attending more than one class, are entitled to wear caps and gowns. The forms prescribed are the Oxford undergraduate gown of black stuff with sleeves; and the black trencher with tassel.

Bachelors of Science, of Engineering, and of Music, and Masters of Science shall be entitled to wear black stuff gowns.

and hoods. The distinctive part of the costume is the hood, which is to be as follows :

For B. Sc.—Black stuff, with a lining of white silk bordered with crimson silk.

For B. E.—Black stuff, with a lining of white silk bordered with purple silk.

For B. Mus.—Black stuff, with a lining of white silk bordered with lavender silk.

For M. Sc.—Black stuff, with a lining of scarlet silk.

Successful candidates for these degrees must appear at Convocation in the proper academic costume, to have the degrees conferred upon them. Degrees will be conferred in the absence of candidates only by special permission of the Senate.

§ XLVI.—Fees.—The regulations as to fees payable by students for classes conducted in the College shall be the same as in the Faculty of Arts (see § xxiv, p. 58.) For extra-mural classes the fees prescribed in the Institutions in which they are held, must be paid. In the subjects of Anatomy, Physiology and Histology, examination fees are payable, (§ xxv.)

The graduation fees are as follows :

Fee payable before the final Examinations for the B. Sc. Degree .....	\$ 5 00
Fee payable on application for the B. E. Degree .....	20 00
Fee payable before the Examinations for B. Mus., in each year of the Course .....	10 00
Fee payable on application for Degree of B. Mus. at end of Course .....	20 00
Fee payable on application for the M. Sc. Degree .....	10 00
Fee for an <i>ad eundem</i> Degree .....	10 00

In the event of the failure of a candidate for the B. Sc. or M. Sc. degree, the candidate will be admitted to one subsequent examination without the payment of a fee.

# Faculty of Law.

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THE PRESIDENT, (*ex-officio*).

RICHARD C. WELDON, M. A., Ph. D., D. C. L., Q. C.

BENJAMIN RUSSELL, M. A., D. C. L., Q. C., M. P.

C. SYDNEY HARRINGTON, Q. C.

GEORGE RITCHIE, LL. B.

HECTOR McINNES, LL. B.

CHARLES H. CAHAN, B. A., LL. B.

*Dean of the Faculty*—PROFESSOR WELDON.

*Secretary of the Faculty*—PROFESSOR RUSSELL.

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## § XLVII—Courses of Lectures.

The following Courses of Lectures to be given in the Session of 1899-1900, will begin on the 30th of August, 1899, and end on the 9th of February, 1900.

### CONSTITUTIONAL AND INTERNATIONAL LAW.

(*George Munro Professorship.*)

*Professor* ..... R. C. WELDON, Q. C.

#### Constitutional Law.

*Two Lectures per week.*

Subjects of Lectures :

Constitutional Conventions. Royal Prerogative.  
*Lex Parliamenti*. Colonial Laws Validity Act. B. N. A. 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. History of the Law of Treason. 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*.

*Text book* : Taswell-Langmead's 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. Select Cases upon the conflict of Laws.

*Text book:* Nelson's 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. Consuls. Commercial Treaties. Naturalization. Extradition. Blockade. Contraband. Intervention. Capture. Prize Courts.

*Text book:* Hall's International Law.**CRIMES.***Lecturer*.....PROFESSOR WELDON.*Two lectures per week.*

Subjects 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.**SHIPPING.***Lecturer*.....PROFESSOR WELDON.

Subjects of lectures :

Registration of Shipping. Transfer. Mortgage. Bottomry and Respondentia. Charter Party. Bills of Lading. Collision. Damage. Salvage. Freight. Towage. General Average.

**CONTRACTS.***Professor* .....B. RUSSELL, M. A., D. C. L., Q. C., M. P.*Two lectures per week.*

Subjects of lectures :

Definition of terms ; agreement, consideration, proposal, acceptance, promise, &c. 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 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 books:* Finch's Cases, and Anson on Contracts.

### EQUITY JURISPRUDENCE.

*Lecturer*.....PROFESSOR RUSSELL.

*One lecture per week extending over two years.*

Subjects of lectures :

Trusts, Mortgages, Fraud, Mistake, Specific Performance of Contracts, Administration of Assets, Election, Account, Discovery, Injunction.

*Text book:* Smith, H. A.

### SALES OF PERSONAL PROPERTY.

*Lecturer*.....PROFESSOR RUSSELL.

*One lecture per week.*

[1900-01.]

Subjects of lectures :

Capacity to buy and sell. Executed and executory contracts of sale. Statute of Frauds. Lord Tenterden's Act. Rules as to passing of property. Reservation of *jus disponendi*. Stoppage in *transitu*. Condition. Warranty, Express and implied. Remedies of seller and buyer.

*Text book:* Benjamin on Sales.

### NEGOTIABLE INSTRUMENTS.

*Lecturer*.....PROFESSOR RUSSELL.

*One lecture per week.*

[1899-1900.]

Subjects of lectures :

Formal Requisites, Consideration. Indorsement and Transfer. Real and Personal defences. Over-due paper. Notice of Dishonor. Protest.

*Text book:* McLaren on Bills.

### EVIDENCE.

*Lecturer*.....MR. C. S. HARRINGTON, Q. C.

*One lecture per week.*

[1900-01.]

Subjects of lectures :

Nature of Proof. Production and Effect of Evidence. Relevancy. Instruments of Evidence.

*Text books:* Greenleaf on Evidence; Judicature Act and Rules.

## PARTNERSHIP AND COMPANIES.

Lecturer.....MR. C. S. HARRINGTON, Q. C.

*One lecture per week.*

[1899-1900.]

Subjects of lectures :

Constitution. Liability of partners *inter se* and to third persons. Change of firm. Retirement of partners. Dissolution. Mining ventures. Joint-stock Companies. Canada Joint-stock Companies Act.

*Text book* : Lindley on Partnership.

## REAL PROPERTY (First Year).

Lecturer.....

Announcement to be made at the beginning of the Session.

## WILLS.

Lecturer.....MR. GEORGE RITCHIE, LL. B.

*One lecture per week.*

Subjects of lectures :

WILLS.—History of Wills, Making of Wills, including Fraud Mistake, Undue Influences, Contingent and Conditional Wills, Form and Execution of Wills, Revocation of Wills, Revival and Republication of Wills, Special Limitations and Conditions in a Will, their effects and legality, Office of Executor and Administrator, Estate of Executor and Administrators, Debts of Deceased, Devises, Legacies.

## PRACTICE AND PROCEDURE.

Lecturer.....MR. HECTOR MCINNES, LL. B.

Subjects of lectures :

Judicature Act and Rules, General Principles of Pleading, and Rules of Practice.

Candidates for the degree of LL. B. are not required to attend lectures or take the examination in Procedure.

## TORTS.

Lecturer.....MR. CHARLES H. CAHAN, B. A., LL. B.

*One lecture per week.*

Subjects of lectures :

Definitions. Torts considered with references to Crimes and Contracts. Deceit. Slander and Libel. Malicious Prosecution. Conspiracy. Assault and Battery. False Imprisonment. Enticement and Seduction. Trespass to Property. Conversion. Violation of Water Rights and Rights of Support. Nuisance. Negligence.

*Text books* : Bigelow, or Pollock

§ XLVIII. — **The Academic Year.**—The Academic year consists of one session. The Session of 1899-1900 will begin on the 29th of August, 1899, and end on the 16th of February, 1900.

§ XLIX. — **Admission of Students.**—(1.) Students may enter the University by (*a*) entering their names in the Register, and (*b*) paying the prescribed fees.

(2.) Registered students may, on payment of the proper fees, enter any of the classes of the University.

(3.) Students who wish to obtain University Degrees must become undergraduates. They may become undergraduates by (*a*) passing the Matriculation Examination of the Arts Faculty or a recognized equivalent, (*b*) producing certificates of Articled Clerkship or the like in cases where they rely on having passed the preliminary law examinations in their several provinces, and (*c*) entering their names on the Register as Undergraduates.

(4.) Students who are not undergraduates are known as General Students.

§ L. — **Degree of Bachelor of Laws.**—(1.) All candidates for the Degree of LL. B. are required to pass the Matriculation Examination of the Arts Faculty, or a recognized equivalent, to attend not less than five-sixths of the lectures given in each subject of the course of study, to pass the Prescribed Examinations in the subjects of the three years course of study, and to argue at least two cases in the Moot Court.

(2.) Graduates and undergraduates in Arts of any recognized College or University, and articled clerks or law students who have passed the preliminary law examinations in any of the Provinces of the Dominion of Canada, in Newfoundland, or in any of the British West India Islands, shall be admitted to the standing of Undergraduates of the First Year in the Faculty of Law, without passing an examination.

Students presenting themselves for the first time for registration as undergraduates in law must submit to the Dean their diplomas or certificates to establish their qualifications as graduates, undergraduates, or enrolled law students, respectively. *Without such diplomas or certificates students cannot be registered as Undergraduates in law.*

(3.) Undergraduates of other Law Schools may, on producing satisfactory certificates of standing, be admitted to similar standing in this Law School if they are found qualified to enter the classes proper to their years. But if their previ-

ous courses of study have not corresponded to the course on which they enter in the University, they may be required to take extra classes.

(4.) Graduates in Arts, of Dalhousie, Acadia, Mount Allison, and St. Francis Xavier, who have taken the classes of Constitutional History, Constitutional Law and Contracts, or an equivalent, as parts of their Arts Course, shall be allowed to graduate in two years from the date of their entering upon the Law Course, provided they take in those years all the other classes specified.

### § LI.—Course of Study for the Degree of LL. B.

- |                               |                     |                                |
|-------------------------------|---------------------|--------------------------------|
|                               | <b>First Year.</b>  |                                |
| 1. Real Property.             |                     | 4. Torts.                      |
| 2. Crimes.                    |                     | 5. Constitutional History.     |
| 3. Contracts.                 |                     |                                |
|                               | <b>Second Year.</b> |                                |
| 1. Equity.                    |                     | 4. Constitutional Law.         |
| 2. Partnership and Companies. |                     | 5. Shipping.                   |
| 3. Negotiable Instruments.    |                     | 6. Wills.                      |
|                               | <b>Third Year.</b>  |                                |
| 1. International Law.         |                     | 4. Equity.                     |
| 2. Conflict of Laws.          |                     | 5. Sales of Personal Property. |
| 3. Evidence.                  |                     |                                |

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. The Course having been very considerably enlarged, the Faculty apprehend that students who are doing regular office work during session, will find it quite impossible to pass with credit the required examinations.

§ LII.—**Sessional Examinations.**—(1.) The Sessional Examinations will begin next Session on February 10th, 1900.

(2.) Students 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 Sessional Examinations of the Session, and such other penalty shall be imposed as the Faculty may determine.

(3.) If an Undergraduate fail to pass in two subjects at the Sessional Examinations, he shall be allowed a supplementary Examination in such subject or subjects at the beginning of any subsequent Session.

(4.) If an Undergraduate fail to pass in more than two subjects at any Sessional Examination, he shall lose his session.

(5.) Undergraduates who wish to present themselves at a Supplementary Examination, must give notice addressed to the Secretary of the Faculty, Dalhousie Law School, Halifax, on or before August 21st, 1899.

(6.) The Supplementary Examination for the present year will begin August 29th, at 3 P. M. Fee \$5, payable on the day of the Examination.

§ **LIII.—Moot Courts.**—Moot Courts will be held every week.

Hereafter the case to be argued will be 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 be required to file briefs with the Dean one week before the day on which the case is argued. A record will be 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.

§ **LIV.—Residence and Discipline.**—The regulations as to residence and discipline in this Faculty are the same as in the Faculty of Arts (p. 56).

§ **LV. — Academic Costume.** — Bachelors of Law are entitled to wear gowns and hoods. The gowns are similar to those worn by Barristers-at-Law. The hoods are of black silk stuff, with a lining of white silk bordered with gold coloured silk.

§ **LVI.—The Library.**—The Library is in charge of a Librarian who will endeavor to make its resources available to the students and give them every possible assistance in the prosecution of their studies. Besides a good set of English and Canadian Reports, the Library has a number of sets of the leading American Reports, and will be found to contain almost all the books an undergraduate will have reason to consult. The principal English, American and Canadian legal periodicals are regularly taken. Students' text-books are not found in the Library.

§ LVII.—Fees.—The following are the fees payable by students of the Faculty of Law. *They are in all cases payable in advance.*

Students are requested to pay their Class Fees and sign the University Register on Tuesday, 29th August, 1899, at 10 A. M., in the office of the Law School.

Registration Fee, payable only by General Students . . . . .	\$ 2 00
Fee for each class attended, per Session, payable by General Students . . . . .	10 00
Fee for each class attended, per Session, payable by students of the Affiliated Course . . . . .	6 00
Fee for the classes of the First Year, payable by undergraduates . . . . .	40 00
Fee for the classes of the Second Year, payable by undergraduates . . . . .	40 00
Fee for the classes of the Third Year, payable by undergraduates . . . . .	40 00
Fee for LL. B. diploma, which is payable before the final examination, and will be returned in case of failure . . . . .	10 00
Fee for the Supplementary Examination . . . . .	5 00

Students of any year are permitted to attend lectures in the subjects of an earlier year without extra charge.

*Students will not hereafter be admitted to the Lecture rooms unless they have paid their class fees.*

# Faculty of Medicine.

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## THE PRESIDENT, (*ex-officio*).

GEORGE L. SINCLAIR, M. D.,	MURRAY McLAREN, M. D.,
DONALD A. CAMPBELL, M. D., C. M.,	WILLIAM S. MUIR, M. D.,
A. W. H. LINDSAY, M. D., C. M.,	WILLIAM TOBIN, F. R. C. S. Ire.,
JOHN STEWART, M. B., C. M.,	HON. MR. JUSTICE HENRY,
DANIEL McNEIL PARKER, M. D.,	LOUIS M. SILVER, M. B., C. M.,
EDWARD FARRELL, M. D.,	FRED W. GOODWIN, M. D.,
ANDREW J. COWIE, M. D.,	F. U. ANDERSON, M. R. C. S. Eng.,
JOHN F. BLACK, M. D.,	EBENEZER MACKAY, Ph. D.,
ALEXANDER P. REID, M. D.,	W. H. HATTIE, M. D.,
MATTHEW A. CURRY, M. D.,	A. HALLIDAY, M. B., C. M.

*Dean of the Faculty* : DR. FARRELL.

*Secretary of the Faculty* : DR. LINDSAY.

Correspondence should be addressed :

“ *The Secretary, Faculty of Medicine,  
Dalhousie College, Halifax.* ”

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§ LVIII.—**Courses of Instruction.**—1. Instruction is provided by the University in the following subjects of the Medical Curriculum.

## I.—CHEMISTRY.

(*McLeod Professorship*).

*Professor*.....E. MACKAY, Ph. D.

### Junior Chemistry Class.

*Mondays, Wednesdays and Fridays, 9—10 A. M.*

CLASS WORK.—The lectures in this class deal in an elementary way with the principles of general chemistry. In the earlier part of the course, the chemistry of fire, of water, and of air is studied, the order of historical development being followed as nearly as possible, and when some acquaintance with chemical facts has thus been gained the fundamental laws of combination are taken up and the atomic theory and chemical formulæ are introduced. This is followed by a study of chlorine and carbon and of the properties of acids and bases. The classification of the elements is then discussed, and thereafter the principal remaining elements are studied, each in connection with the group of elements in the periodic system to which it belongs. The lectures are illustrated as fully as possible by experiments. Examinations, oral or written, are held fortnightly, and occasional written exercises are required.

**LABORATORY WORK.**—Every student is required to devote at least three hours a week to laboratory work. The laboratory course is designed to make the student familiar with ordinary laboratory operations and to give him a practical acquaintance with the elementary facts of chemistry. Several common inorganic substances are prepared and studied; simple quantitative experiments are performed; and some time is devoted to elementary work in qualitative analysis.

*Books recommended:* For class-work, Remsen's *Introduction to the Study of Chemistry* (Macmillan & Co.), or Storer and Lindsay's *Manual of Chemistry*, (American Book Co.) In the laboratory, Remsen's *Introduction to the study of Chemistry* is used.

#### Senior Chemistry Class.

*Tuesdays and Thursdays, 9–10 A. M.; Fridays 10–11 A. M.*

**CLASS WORK.**—The subjects of study in this class fall into two sub-divisions. In one of these sub-divisions, taken up on Tuesdays and Thursdays, the lectures are upon pure chemistry; in the other, taken up on Fridays, the lectures are upon the applications of chemistry to Medicine. In the sub-division of pure chemistry, the first few weeks are devoted to a fuller discussion of some of the principles of inorganic chemistry than is given in the Junior Class. The constitution of acids, bases and salts, the determination of atomic and molecular weights, and the principal reactions used in qualitative analysis are the chief topics taken up. The remainder of the year is devoted to organic chemistry. Special attention is given in this part of the course to a study of the experimental evidence upon which the constitutional formulæ of organic compounds are based. In the sub-division of medical chemistry the subjects of study are, for the first half year, the chemical properties and modes of detection of the more commonly occurring poisons; and for the second half year physiological chemistry. Under the latter head are studied: The proximate principles of the body and of food, protein substances, carbo-hydrates, fats, milk, flour, bread, meat; the blood; the digestive fluids and digestion; the principal animal secretions, especially urine; the quantitative estimation of sugar, albumen, urea.

**LABORATORY WORK.**—All members of the class are required to devote at least three hours a week to laboratory work. This will include qualitative analysis and the preparation and study of a few typical organic compounds. The course in qualitative analysis will include the identification of the following bases: arsenic, antimony, bismuth, copper, mercury, lead, silver, iron, chromium, aluminium, zinc, magnesium, barium, calcium, potassium, sodium, ammonium; the following inorganic acids: hydrochloric, hydrobromic, hydriodic, nitric, chloric, sulphuric, boric, phosphoric; and the following organic compounds (not more than one such being present): acetates, tartrates, oxalates, cyanides, salicylates, citrates, alcohol, chloroform, chloral, dextrin, cane-sugar, starch, phenol, quinine, morphine, strychnine.

For students who can devote sufficient time to the subject a more extended laboratory course is given, including, in addition to the preceding, the quantitative estimation of the chief constituents of urine.

*Books recommended:* For ordinary use, Remsen's *Compounds of Carbon* (Macmillan & Co.); Halliburton's *Essentials of Chemical Physiology* (Longman); Stoddard's *Qualitative Analysis* (American Book Co.). For reference Reese's *Medical Jurisprudence and Toxicology* (Blakiston, Son & Co.). Hammarsten's *Text-book of Physiological Chemistry* translated by Mandel Wiley & Sons).



## CHEMICAL LABORATORY.

The chemical laboratory accommodates about eighty students. A reference library is placed in the laboratory for the use of students doing analytical work.

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 apparatus they have broken or injured.

The laboratory is open daily, Saturdays excepted, from 10 a. m. to 1 p. m., and from 3 to 5 p. m. on Tuesdays, Wednesdays and Thursdays.

## II.—ELEMENTARY BIOLOGY.

## (A.)—BOTANY.

Lecturer.....

Mondays, 2—4 P. M.

The course in Botany will have special reference to the following subjects: Protoplasm and plant-cells, the Tissue and Tissue Systems of Plants, Morphology of the Plant-body, Plant Physiology, the Principles of Classification and the Laws of Distribution, the Proto-phyta (Schizophyceæ), the Phycophyta (Chlorophyceæ and Phæophyceæ), the Carpophyta (Rhodophyceæ, Ascomycetæ and Basidiomycetæ specially), the Bryophyta (Mosses and Liverworts), the Pteridophyta (Ferns, Horse-tails and Club-mosses), the Anthophyta (specially the Coniferæ, Gramineæ, Orchidaceæ, Liliaceæ, Urticaceæ, Labiatae, Compositæ, Umbelliferæ, Rosaceæ, Leguminosæ, Cruciferæ, Ranunculaceæ). The Morphology and life history (the Anatomy, Histology and development) of at least two common or representative species of each group of plants named above, in minute detail.

General attention will be given to the native *flora* of the province, with special notice of foreign as well as native species of interest from economic, medicinal or injurious properties.

The preliminary study of Botany as indicated in Grade IX of the Public School Course, and especially the formation of a local collection of plants, even if unnamed and unclassified, will be an advantage to any student entering upon the course.

Practical instruction will be given in the collecting, drying and mounting of specimens, the use of the microscope, the preparing of microscopic sections, and the general dissection of plants; and all students will be required to present a collection of at least 100 plants representing the local flora examined by them, together with their notes and drawings of microscopic work done during the session, as a portion of their terminal examination. The use in class of a number of microscopes will be granted the students under the care and direction of the lecturer; but a hand lens, glass slides, cover glasses, scalpels and other apparatus, and books necessary for each student, shall be supplied by each for himself.

## (B.)—ZOOLOGY.

Lecturer..... A. HALLIDAY, M. B., C. M.

Tuesdays and Thursdays, 2.30—3.30 P. M.

The work of the class will consist of a course of lectures supplemented by practical work.

The following subjects will be treated of in the lectures :—Organic and Inorganic Bodies ; Life, Vital Action, &c. ; Differences between Plants and Animals, Morphology, Physiology, Differences between Animals, Specialisation of Function, Morphological Type, Von Bær's Law of Development, Origin of Species, Homology, Analogy, Reproduction, Distribution in Time and Space, Evolution, Classification. Also the general characters of the several sub-kingdoms will be treated of as fully as possible.

The practical part of the course will consist of Dissections by students themselves and demonstrations microscopic, &c.

The object of the class will be to give such a comprehensive idea of the Animal Kingdom, as will form a good basis for anyone wishing to prosecute still further the study of Biology, or Comparative Anatomy and Physiology.

Students intending to take the class will have to provide themselves with the following articles :—1 pair forceps, 1 pair scissors, 1 or 2 dissecting needles and knives, a razor and a small hand lens.

The total cost of these articles will be about \$3.00. As they will not be required for the first week or two they need not be purchased till the opening of the class when more information will be given.

*Text Book* : The text book will be announced at the beginning of the Session. *Reference Text Books* : Anatomy of Vertebrates and Invertebrates, Huxley, 2 vols ; Text Book of Zoology, Claus & Sedgwick, 2 vols.

2. Students wishing to attend the above courses may do so either as General Medical Students without preliminary examination, or as regular Undergraduates in Medicine. In either case they must enter their names in the University Register at the beginning of the Session. By reference to § § VII and XXX Undergraduates in Arts and Science will see how they at the same time may be registered with the Medical Faculty, and so secure the benefit of certain classes of the Arts and Science Courses, as regular Undergraduates in Medicine.

3. In other subjects the necessary classes may be attended at the Halifax Medical College or any other College or School of Medicine recognized by the Senate.

4. Attendance on classes by those registered as General Medical Students will not qualify for Degree Examinations in this Faculty.

§ LIX.—**The Academic Year.**—The Academic year consists of one session of eight months duration. The Session of 1899-1900 will begin on Thursday, August 31st, 1899, and end on Tuesday, April 24th, 1900.

In order to qualify for Degree Examinations the Medical Academic year must include attendance on at least two of the

following courses: Anatomy, Practical Anatomy, Chemistry (including a laboratory course of not less than three hours per week), Physiology, Materia Medica, Surgery, Obstetrics, Gynæcology and Diseases of Children, Medicine; or one such course and two of the following: Elementary Biology, (including Bacteriology) Histology, Medical Jurisprudence and Hygiene, Pathology, Therapeutics, Clinical Medicine, Clinical Surgery. Certificates indicating less than 90 per cent. of attendance upon any class will not be accepted without valid reason for absence being shown.

§ LX.—**Degrees.**—Two Medical Degrees are conferred by this University, 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.

§ LXI.—**Matriculation Examination.**—1. Candidates for medical degrees must give evidence of having obtained a satisfactory general education, by presenting certificates of having passed, before entering on the course of study qualifying for the degrees, either the Matriculation Examination of the Provincial Medical Board of Nova Scotia or some other examination recognized by the Board as sufficient.

Information as to the Matriculation Examination of the Provincial Medical Board may be obtained on application to the Registrar of the Board, Dr. A. W. H. Lindsay, Halifax.

2. A certificate of the possession of a University Degree in Arts or Science, or of the Teacher's Grade "A" License of Nova Scotia, or of having passed the Preliminary Examination of the Nova Scotia Barrister's Society, shall be considered by this University sufficient evidence of satisfactory general education.

3. The Matriculation and Sessional Examinations of any Chartered University or College; the Junior and the Senior Leaving Examinations of the High Schools, (N. S.) with 50% in each subject; the First Class Teacher's License of either Nova Scotia, New Brunswick or Prince Edward Island; and also the preliminary examination of any Medical Licensing Board authorized by law in Her Majesty's dominions will be recognized *pro tanto*.

4. Candidates who may have passed in all but one of the subjects required for the Matriculation Examination of the Provincial Medical Board either before the Board's Examiners or at any of the recognized Examinations specified above may enter as undergraduates, but will subsequently be required to comply with the Board's regulations as regards the remaining subject of Examination.

§ LXII.—**Degree Examinations.**—1. Candidates for the Degree of M. D. and C. M. shall be required to pass two main examinations—the Primary and Final M. D., C. M. examinations—and to have satisfied at the dates of the examinations certain conditions as to fees, attendance on classes, etc.

2. Tickets of admission will be issued to all candidates who have satisfied these requirements of the Faculty, which tickets shall be produced at each examination.

3. At all examinations a minimum of 50% in each subject will be required to obtain a Pass.

4. Should the candidate fail to pass in any subject or subjects, his fee will not be returned to him, but he will be permitted to present himself again for examination in such subject or subjects on payment of \$5.00 for each subject, with or without evidence of further attendance on said subject or subjects as the Faculty may direct.

5. Except in the case of students taking one or other of the so called “affiliated” courses as referred to in § LVIII., 2 :—no candidate, unless by *special* permission of the Faculty, will be allowed to present himself for examination in selected subjects, but must in the first instance, take each section as hereafter defined, (§§ LXIV-v) as a whole.

6. In the event of a candidate failing to hand in a paper at any examination on any subject, he will be considered as having failed in such subject, and the provisions and regulations as to *supplementary* examinations will apply in his case.

7. Candidates who have been granted supplementary examinations, will be required to pay the examination fee, whether they take the examination in the Autumn or at the time of the regular April examinations.

§ LXIII.—**Primary M. D., C. M. Examination.**—

1. This examination shall consist of two parts : Sect. A to be passed at the end of the First Year, and Sect. B at the end of the Second year.

(A). PRIMARY EXAMINATION, SECT. A.

(1.) This examination shall include Anatomy, Histology, Chemistry and Elementary Biology to the extent indicated in the following synopsis :

*Anatomy*.—A written examination on Osteology, including general physical characters, chemical composition and coarse structure of bone. Ossification. Arthrology, classification of Joints, structure and mechanism of the more important, (hip, knee, shoulder, elbow, ankle, etc.).

*Histology*.—A written examination on the structure of the tissues and of the organs of the body. Candidates may also be called upon

to describe the general histological methods of fixing and hardening tissues and organs, and cutting, staining and mounting sections.

*Chemistry*:—Elementary general chemistry, as in the course of the Junior Chemistry Class, outlined on pp. 93, 94. Two papers will be set corresponding to the work outlined under "class-work" and "laboratory-work" respectively in the above course.

*Elementary Biology*:—Candidates will be expected to show a practical acquaintance with the topics indicated as forming the subject matter of the courses of lectures and instruction in Botany and Zoology outlined at pp. 95, 96.

(2.) Candidates for this examination shall be required to produce certificates to the following effect:

(a) Of having passed the Matriculation Examination of the Provincial Medical Board of Nova Scotia or other examination recognized as sufficient, at least one academic year previously, and of having completed their sixteenth year before the passing of said examination.

(b) Of having, after passing the Matriculation Examination, attended either in this University, in the Halifax Medical College, or in some other University or College approved by the Senate, during at least one medical session of eight months duration the following courses of lectures and instruction, viz: *Anatomy, (Osteology and Arthrology)* a course of at least 75 lectures and demonstrations with 10 hours laboratory work per week for six months; *Histology*, a course of at least 75 hours of lectures and laboratory work; *Chemistry*, a course of at least 75 lectures with a laboratory course of not less than three hours per week for six months; *Elementary Biology*, a course of at least 100 hours of lectures and laboratory work.

#### (B.) PRIMARY EXAMINATION, SECT. B.

(1.) This examination shall include Anatomy, Physiology, Chemistry, to the extent indicated in the following synopsis:

*Anatomy*:—This examination will be partly written and partly *viva voce*. The paper may include questions in Descriptive and Regional Anatomy, Surgical and Medical Anatomy. At the oral examination, candidates will be examined on the skeleton, recent dissections, models, preparations, etc.

*Physiology*:—A written and an oral examination on: (a) The physiology of digestion, absorption, circulation, respiration, secretion, nutrition, animal heat, animal motion; the functions of the nervous system, and sense organs; reproduction and development.

(b) The composition of food, and of the tissues, secretions, excretions, and other fluids of the body.

At the oral examinations microscopical preparations of the tissues and organs of the body will also be submitted for identification or description.

*Chemistry* :—Inorganic, organic and medical chemistry as in the course of the Senior Chemistry Class, outlined on page 94. The examination will include: (a) Two papers corresponding respectively to the work outlined under "class-work" and "laboratory-work" in the above course. (b) A practical examination in the laboratory. (c) An oral examination, in which in addition to the preceding, questions may be put to the candidates upon the work prescribed in chemistry under Section A of the Primary Examination, (p. 99.)

(2.) Candidates for this examination shall be required to produce certificates to the following effect :

(a) Of having passed the Matriculation Examination, or other examination recognized as sufficient, at least two academic years previously, and of having completed their sixteenth year before the passing of said examination.

(b) Of having, after passing the Matriculation or other equivalent examination, attended either in this University, in the Halifax Medical College, or in some other School of Medicine approved by the Senate, during at least two medical sessions each of eight months' duration, the courses of lectures, etc., prescribed above for Sec. A of the primary examination, and having also attended the following, viz : *Senior Anatomy*, a course of at least 75 lectures and demonstrations with 10 hours laboratory work per week for six months ; *Senior Chemistry*, a course in Organic and Medical Chemistry of 75 lectures with a laboratory course of not less than 3 hours per week for six months ; *Physiology* a course of at least 75 lectures.

(c) Of having passed in the subjects of the first part of the Primary Examination either at this University, at the Halifax Medical College, or at some other Medical College specially recognized by the Senate.

2. The Primary M. D., C. M. Examination will be held in the second and third weeks in April. Candidates are required to hand in their applications and to transmit as far as possible the certificates specified above for Sect. A or Sect. B, as the case may be, to the Secretary of the Faculty at least fourteen days before the date of the examination, and the remainder of the required certificates not less than two days before the date of the examination, to enter their names in the Register of Undergraduates of the University before the date of the examination, and to pay before the date of the examination, one-sixth of the amount of the graduation fee in the case of candidates for Sect. A, and one-third of the graduation fee in the case of candidates for Sect. B.

#### § LXIV.—Final M. D., C. M. Examination.—1.

This Examination shall also consist of two parts, one to be passed at the end of the third and the other at the end of the fourth Academic Year.

## (A). Final Examination, Sect. A.

(1.) This Examination will include the following subjects:—Materia Medica, Pharmacy and Therapeutics; Pathology and Bacteriology; Medical Jurisprudence, Hygiene and Insanity.

*Materia Medica, etc.*—This examination will be partly written and partly oral. The candidates will require to possess a knowledge of:

(a.) The general nature and composition, and the most important physical and chemical characters of the Pharmacopœial drugs, named in the annexed Schedule.

(b.) The composition of the Pharmacopœial preparations of these drugs, and the process employed in making them.

(c.) The doses, therapeutical uses and modes of administration of these drugs and their preparations; writing of prescriptions.

(d.) The remedial uses of Electricity and Galvanism, Heat and Cold, Climate, etc.

(e.) Diet.

At the oral examination candidates will also be required to recognize the drugs indicated by *italics* in the annexed Schedule: Liquor Chlori; *Calx Chlorinata*; Liquor Sodæ Chlorinatae.

Bromum; Ammonii Bromidum; *Potassii Bromidum*; Sodii Bromidum.

*Iodum*; *Potassii Iodidum*; Sodii Iodidum; Plumbi Iodidum.

*Sulphur Sublimatum*; *Sulphur Præcipitatum*; Calx Sulphurata;

Potassa Sulphurata.

*Phosphorus*; Calcii Phosphas; Sodii Phosphas; *Ferri Phosphas*;

Calcii Hypophosphis; Sodii Hypophosphis.

Acidum Hydrochloricum; Acidum Nitricum; Acidum Sulphuricum.

Acidum Aceticum; Acidum Citricum; Acidum Tartaricum.

Acidum Boricum; Acidum Sulphurosum.

*Acidum Hydrocyanicum Dilutum.*

Liquor Ammoniaë; Liquor Potassæ; Liquor Sodæ; Potassa Caustica; Soda Caustica.

*Ammonii Carbonas*; *Ammonii Chloridum*; Liquor Ammonii Acetatis.

Potassii Bicarbonas; Potassii Sulphas; Potassii Chloras; Potassii

Tartras Acida; *Potassii Permanganas.*

Sodii Bicarbonas; Sodii Sulphas; Sodii Nitris; Borax

Calx; Calcii Hydras; Creta Præparata; Calcii Carbonas Præcipitata.

Magnesia; Magnesii Carbonas; *Magnesii Sulphas.*

*Alumen*; *Alumen Exsiccatum.*

Zinci Oxidum; Zinci Chloridum; *Zinci Sulphas.*

*Cupri Sulphas.*

Argentii Nitras.

*Hydrargyrum*; *Hydrargyri Oxidum Flavum*; *Hydrargyri Oxidum Rubrum*; *Hydrargyri Subchloridum*; *Hydrargyri Perchloridum*; *Hydrargyri Iodidum Rubrum*; *Hydrargyrum*

*Ammoniatum*; Liquor Hydrargyri Nitratis Acidus.

*Plumbi Oxidum*; *Plumbi Acetas*; Liquor Plumbi Subacetatis.

Antimonium Tartaratum.

*Acidum Arseniosum*; *Ferri Arsenias*; Sodii Arsenias; Arsenii

Iodidum; Liquor Arsenii et Hydrargyri Iodidi.

Bismuthi Subnitratis; Bismuthi Carbonas; Bismuthi Citras.

Ferrum; *Ferri Sulphas*; *Ferri Sulphas Granulata*; *Ferri Sulphas Exsiccata*; *Syrupus Ferri Subchloridi*; *Ferri Carbonas Saccharata*; *Syrupus (et Pilula) Ferri Iodidi*; *Liquor Ferri Acetatis*; *Liquor Ferri Perchloridi*; *Liquor Ferri Pernitratis*; *Liquor Ferri Persulphatis*; *Ferri Peroxidum Hydratum*; *Liquor Ferri Dialysatus*; *Ferri et Ammonii Citras*; *Ferri et Quininæ Citras*; *Ferrum Tartaratum*; *Ferrum Redactum*.

Alcohol æthylicum; *Spiritus Rectificatus*; *Spiritus Tenuior*.

*Æther*; *Chloroformum*; *Iodoformum*.

*Chloral Hydras*; *Butyl Chloral Hydras*; *Paraldehydum*; *Sulphonal*.

*Amyl Nitris*; *Tabellæ Nitroglycerini*; *Liquor Trinitrini*; *Spiritus Ætheris Nitrosi*.

*Acetanilidum*; *Phenacetin*; *Phenazonum*.

*Collodium*.

*Acidum Carbolicum*; *Acidum Salicylicum*; *Sodii Salicylas*.

*Aconiti Radix* et *Folia*; *Aconitina*.

*Opium*; *Morphinæ Hydrochloras*; *Morphinæ Acetas*; *Morphinæ Sulphas*; *Liquor Morphinæ Bimeconatis*; *Apomorphinæ Hydrochloras*; *Codeina*.

*Coca*; *Cocainæ Hydrochloras*.

*Jaborandi*; *Pilocarpinæ Nitras*.

*Quassia Lignum*; *Calumbæ Radix*; *Gentianæ Radix*.

*Physostigmatis Semen*; *Physostigmina*.

*Caffeina*; *Caffeinæ Citras*.

*Conii Fructus* et *Folia*.

*Asafetida*; *Ammoniacum*; *Myrrha*; *Guaiaci Resina*.

*Cinchonæ Cortex*; *Cinchonæ Rubræ Cortex*; *Quininæ Sulphas*; *Quininæ Hydrochloras*.

*Salicinum*.

*Ipecacuanha*; *Senegæ Radix*.

*Glycerinum*.

*Nux Vomica*; *Strychnina*.

*Belladonna Radix* et *Folia*; *Atropina*; *Atropinæ Sulphas*; *Hyoscyami Folia*; *Stramonii Semina* et *Folia*; *Homatropinæ Hydrobromas*.

*Cannabis Indica*.

*Digitalis Folia*; *Strôphanthus*.

*Oleum Ricini*; *Oleum Crotonis*; *Aloe Barbadosensis*; *Aloe Socotrina*;

*Aloin*; *Rhamni Purshiani Cortex*; *Colocynthidis Pulpa*; *Elatarium*;

*Elatarium*; *Elatarium*; *Jalapa*; *Podophylli Rhizoma*; *Rhei Radix*;

*Senna Alexandrina et Indica*; *Camphora*; *Oleum Terebinthina*.

*Acidum Tannicum*; *Acidum Gallicum*; *Kino*; *Catechu*; *Hamamelidis Cortex* et *Folia*.

*Acidum Benzoicum*.

*Copaiba*. *Cubeba*.

*Colchici Cormus* et *Semina*.

*Scilla*.

*Filix Mas*. *Santoninum*.

*Ergota*.

*Oleum Morrhuæ*.

*Cantharis*.

*Medical Jurisprudence, Hygiene and Insanity*:—The Examination will be partly written, partly oral. Candidates will be examined on the following topics :

*Forensic Medicine.*

- 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 ; (3) Suffocation ; (4) Mechanical Injuries and Wounds.
- 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 Preservation of parts for Analysis. (3) Preliminary Tests for Poisonous Substances for Clinical Use before reference to an Analyst.
- VI. Medico-legal points in connection with :—Pregnancy, Delivery, Rape, Criminal Abortion, Infanticide, Assaults and Homicide, Wounds and other external Injuries ; Mental Capacity in relation to Criminal Responsibility, Contracts and Wills ; Malpractice, and Neglect of Duty.
- V. Forms of Insanity. Examination of persons supposed to be insane. The Lunacy Laws in so far as they affect the Medical Practitioner when signing Certificates of Lunacy.

*Hygiene.*

- I. WATER, in its relations to Health and Disease :—(1) The Character and Classification of Drinking Water. (2) The Causes and Sources of the Impurities found in Water and the 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 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 in 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.

*Pathology and Bacteriology* :—The Examination will be partly written, partly *viva voce*. Candidates will be expected to possess a knowledge of :—

(a.) General Pathology, including Degenerative Processes, Inflammation, Morbid Growths, etc.

(b) General Etiology, with reference to Parasitic and Infective Diseases.

(c.) Systematic Pathology, the more important diseases of the principal systems and organs of the body.

(d.) Bacteriology, to include the General Morphology and Life History of Micro-Organisms; Characters of Organisms Pathogenic to the Human Subject, and their modes of producing disease, etc.

At the oral examination candidates will be examined on gross and microscopical preparations, and will be expected to possess a knowledge of the Preparation of Culture Media, Methods of Isolation and Cultivation, Staining, Separation of Bacterial Products, Inoculation.

(2.) Candidates for this examination shall be required to furnish certificates to the following effect, viz.:

(a) Of having passed the Matriculation Examination, or other examination recognized as sufficient, at least three academic years previously, and of having completed their sixteenth year before the passing of said examination.

(b) Of having, after passing the Matriculation or other equivalent examination, attended either in this University, in the Halifax Medical College, or in some other School of Medicine approved by the Senate, the courses of lectures, etc., prescribed above for candidates for the Primary M. D., C. M. Examination.

(c.) Of having passed the Primary M. D., C. M. Examination at this University, or of having subject to the regulations of § LXIII, passed the same examination at the Halifax Medical College, or at some other Medical School or College specially recognized by the Senate.

(d.) Of having, after passing the Matriculation Examination, attended at the Halifax Medical College, or at some other College or School of Medicine approved by the Senate, during at least one medical session of eight months' duration, the following courses of lectures and instruction, viz.: *Materia Medica*, a course of at least 75 lectures; *Therapeutics*, a course of at least 50 lectures; *Medical Jurisprudence*, (including *Insanity*), a course of at least 50 lectures and demonstrations; *Hygiene*, a course of at least 25 lectures and demonstrations; *Pathology and Bacteriology*, a course of at least 150 hours of lectures, demonstrations and laboratory work.

(e.) Either of having, after passing the Matriculation Examination, attended at the Halifax Medical College, or at some other College, approved by the Senate, one course of instruction of at least thirty lessons in Practical Dispensing, or of having, after passing the Matriculation Examination, had three months practice in the dispensing of drugs with a registered apothecary or dispensing medical practitioner. Persons submitting a college certificate must also show that they have passed a satisfactory examination at the end of their course of instruction.

(f.) Of having, after passing the preliminary examination, attended the Post Mortem Examinations in a recognized Hospital for a period of at least eight months, during which they have received practical instruction in the methods of making Post Mortem Examinations and in framing Reports. Such certificate to be accompanied by reports of at least six autopsies which the candidate has attended.

(B). FINAL EXAMINATION, SECT. B.

(1.) This Examination will include the following subjects :—Surgery, Clinical Surgery, Medicine, Clinical Medicine, Obstetrics and Diseases of Women and Children.

*Surgery* :—The Examination in this subject will be partly written and partly *viva voce*. The candidates will be expected to possess a knowledge of the Principles and Practice of Surgery, of Surgical Pathology, Surgical Anatomy, and Operative Surgery. They will also be examined on the more common Diseases of the Skin, of the Eye, Ear, Throat, and Nose.

*Clinical Surgery* :—This Examination will be partly practical and partly oral. Cases will be submitted for diagnosis and treatment. Candidates will also be examined on the application of Splints and Bandages, and on the uses of Surgical Instruments and Appliances.

*Medicine* :—In this subject there will be a written and an oral examination on the Clinical History, Causes, Diagnosis, Prognosis and Treatment of the Diseases of the different Systems and Organs of the Body. The examination will also include Infectious Diseases, Constitutional Diseases, Mental Diseases and Diseases of the Nervous System. Candidates may also be questioned on Medical Anatomy and Therapeutics.

*Clinical Medicine* :—The Examination in Clinical Medicine will be partly practical and partly oral. Patients will be submitted for examination, diagnosis and treatment. Examination of specimens of Urine, Sputa, etc., will be required.

*Obstetrics and Diseases of Women and Children* :—In these subjects there will be a written and an oral examination, which will embrace the following :—

(a.) The Anatomy and the Physiology of the Female Organs of Reproduction.

(b.) The Physiology, Pathology and Therapeutics of Pregnancy.

(c.) Parturition, natural and morbid.

(d.) Hygiene, Pathology and Therapeutics of the Puerperal State.

(e.) Hygiene, Pathology and Therapeutics of Infancy.

(f.) Special Pathology and Therapeutics of the Female Organs of Reproduction.

At the oral examination candidates may also be questioned on Gynecological Operations and the use of Instruments and Appliances.

(2.) Candidates for this examination shall be required to furnish certificates to the following effect, viz. :

(a.) That they have completed their twenty-first year, or that they will have done so on and before the day of graduation. This certificate shall be signed by themselves, and shall be after the following form :

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), and that I am not (or shall not be at that time) under articles as a pupil or apprentice to any Physician, Surgeon, or Apothecary.

(Signed),

A. B.

(b.) Of having passed the Primary M. D., C. M. Examination at this University, or of having subject to the regulations of § LXIII, passed the same examination at the Halifax Medical College, or at some other Medical School or College specially recognized by the Senate.

(c.) Of having passed the First part (Sect. A) of the Final Examination, in Pathology, *Materia Medica* and Therapeutics, Medical Jurisprudence, Hygiene and Insanity.

(d.) Of having, after passing the Matriculation Examination, attended during four academic years, (as in § LIX) at least two courses of lectures per year in subjects of the Primary and Final M. D., C. M. Examinations, either in this University or at the Halifax Medical College, or at some other Medical School or College recognized by the Senate.

(e.) Of having, after passing the Matriculation Examination, attended at the Halifax Medical College, or at some other College or School of Medicine approved by the Senate, during at least two medical sessions each of eight months' duration (a) the courses of lectures, etc., prescribed for Sect. A. of the Final Examination, and (b) having also attended two courses of at least 75 lectures in each of the following, viz. : *Surgery, Medicine, Obstetrics and Diseases of Women and Children, Clinical Surgery, Clinical Medicine*; and one course of at least 25 lectures and demonstrations in *Ophthalmology, Otology and Laryngology*.

(f.) Of having, after passing the Matriculation Examination, attended a course in Operative Surgery, and of having performed operations on the dead body to the satisfaction of the Teacher.

(g.) Of having, after passing the Matriculation Examination, attended during twenty-four months the practice of the Victoria General Hospital, or that of some other Hospital approved by the Senate.

*h.*) Of having, after passing the Matriculation Examination, attended during at least eight months, the practice of a Dispensary or of the out-patient department of a general Hospital.

*i.*) Of having, after passing the Matriculation Examination, attended during at least eight months, courses of practical instruction of at least 25 lessons or demonstrations each in Medicine and in Surgery, including:— the methods of examining various organs and other parts of the body in order to detect the evidence of disease or the effect of accidents—the employment of instruments and apparatus used in diagnosis or treatment, the examination of the Urine and other secretions, and of morbid products

*j.*) Of having, after passing the Matriculation Examination, served at least eight months as a dresser in the Surgical wards, and eight months as a Clinical Clerk in the Medical wards of a recognized Hospital, or otherwise given satisfactory evidence of practical work in Surgery and Medicine.

*k.*) Of having, after passing the Matriculation Examination, attended for at least eight months the practice of a lying-in hospital, approved by the Senate, and of having attended at least six cases of midwifery, under a recognized practitioner.

*l.*) Of having, after passing the Matriculation Examination, received instruction and attained proficiency in the practice of Vaccination, under a recognized medical practitioner.

2. The final M. D., C. M. Examination will be held in the second and third weeks in April. Candidates are required to hand in their applications and to transmit as far as possible the certificates specified above for section A or Section B, as the case may be, to the Secretary of the Faculty, at least fourteen days before the date of the Examination, and the remainder of the required certificates not less than two days before the date of the Examination, to enter their names in the register of undergraduates before the date of the examination, and to pay before the date of the examination, one-sixth of the amount of the graduation fee in the case of candidates for Sect. A, and one-third of the graduation fee in the case of candidates for Sect. B.

3. Candidates who may have been exempted from passing the Primary Examination under the provisions of § LXIV, (2),(b) will be required to pay the balance of the full graduation fee before being admitted to the last part of the Final Examination.

4. A candidate having failed to make 50% in any subject of Sect. B of the Final Examination will also be required to pass again in any other subject in which he may have made less than 60% with or without evidence of further attendance on such subject or subjects as the Faculty in their discretion may determine.



# Institutions.

## THE UNIVERSITY LIBRARY.

The \*Library consists of about 8050 volumes, selected to meet the wants especially of students of the Faculties of Arts and Science.

It 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 DEMILL MEMORIAL, presented by Dr. MacMechan from the proceeds of a course 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 MEMORIAL COLLECTIONS of the Classes of '94, '95, '96, '97, and '98.

The Library is dependent upon the generosity of Alumni and friends for new books. Since 1890 there has been no regular appropriation for the purchase of books. Consequently every department is sadly in need of books for the ordinary work of the undergraduates. Three departments have but a score or two of books. The Alumni Association has for several years given the Dean of the Faculty of Science an annual appropriation for the purchase of books and apparatus needed by the recently established courses in that Faculty. From this source, during the past session, seventeen books on Chemistry, Zoology, Sound, and Practical Physics have come to the Library. In all 310 volumes have been presented to the Library during the past year. This number does not include reports, calendars, etc.

The most notable gift of the year came from the Class of 1899. They have given \$187.20 to the library for a memorial. The Class of '94 has the honour of beginning the class memorials. Every class since then has given generously.

MISS ELIZA RITCHIE, Professor of Philosophy in Wellesley College has again been very generous to the Library. A rare

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\* For Law Library see Law Faculty section of the Calendar. Students are admitted to some of the privileges of the Legislative and Citizens' Libraries.

and beautiful volume of portraits of "Tennysen and his Friends" and twenty volumes of the Old Dramatists (Mermaid Series), are among her gifts for the past year.

A valuable collection of standard authors and dictionaries in the modern languages from the library of the late Consul-General for Belgium, Mr. C. E. Ronné has been presented to the Library by his son

An "Alumnus" who has been very generous in the past has sent the Library this year several very useful books and periodicals.

An attempt was made during the past session to collect the publications of old Dalhousians. The following have generously given copies of their publications :—

Dr. J. G. MacGregor : *Kinematics and Dynamics*, and various scientific papers and pamphlets ; Dr. D. A. Murray : *Differential Equations, Integral Calculus* ; Prof. H. McD. Scott, D.D. : *Nicene Theology*, and two theological papers ; Dr. John Waddell, *Arithmetic of Chemistry* ; Prof. J. E. Creighton, Ph. D. : *Introductory Logic, The Will*, and four philosophical papers ; Professor Victor E. Coffin, Ph. D. : *The Province of Quebec and the Early American Revolution*, and two historical papers ; Prof. H. Murray : *The Classics : Their Use, Present Position, Future Prospects* ; Prof. Eliza Ritchie, Ph. D. : *Problems of Personality* ; Prof. A. S. Mackenzie, Ph. D. : *On the Attractions of Crystalline and Isotropic Masses at small Distances* ; Prof. E. Mackay, Ph. D. : *The Study of Water Solutions of some Alums* ; Prof. Ethel Muir, Ph. D. : *The Ethical System of Adam Smith* ; Dr. J. D. Logan : *The Aristotelian Conception of  $\phi\acute{\upsilon}\sigma\iota\varsigma$*  and three other philosophical papers ; J. Macdonald Oxley, Esq., B. A., LL. B. : *On the World's Roof, In the Swing of the Sea, Making his Way* ; E. P. Robins, Esq., M. A. : *Modern Theories of Judgment* ; E. H. Archibald, Esq., M. Sc. : *On the Conductivity of Aqueous Solutions containing Sodium Chloride and Potassium Sulphates* and four other scientific papers ; D. McIntosh, B. Sc. : *On the Calculation of the Conductivity of mixtures of Electrolytes having a Common Ion* ; T. C. McKay, Esq., M. A. : *On the Conductivity of Aqueous Solutions of Potassium-Magnesium Sulphate* and one other scientific paper.

Publications of the following Alumni have been presented by others :—

The late Rev. G. Patterson, LL. D. : *Sable Island, Memoir of James MacGregor* and three historical papers ; the late Prof. J. J. Mackenzie, Ph. D. : Vol. of Scientific papers ; Rev. S. McNaughton : *Doctrine and Doubt* and another vol. ; W. M. Thorburn, Esq., B. A., I. C. S. : *India Solvent, The Great Game* ; F. H. Bell, Esq., B. A. : *Taxation in Halifax* ; Dr.



J. A. Lippincott : *Impairment of Vision* ; J. McD. Scott, Esq : *Theories and Criticisms* ; D. Soloan, Esq., B. A. : *Macaulay's Essay on Milton* ; Dr. Alex Fraser : *Hegelianism*.

The following donations have been received from:—\$300 Fund, 37 vols. ; Macmillan & Co., 30 vols. ; Mrs. W. B. Slayter, 16 ; Dr. MacMechan (Proceeds from Shakspeare Lectures), 16 ; Class '96, 14 ; T. C. Allen & Co., 14 ; Dr. Eben Mackay, 12 ; Dr. J. G. MacGregor, 11 ; A. H. R. Fraser, 10 ; Prof. Walter Murray, 9 ; J. M. Macoun, Esq., 5 ; J. H. Norman, Esq., 4 ; G. S. Campbell, Esq., 4 ; Prof. R. A. Falconer, President Forrester, Prin. C. F. Fraser, A. W. Routledge, Esq. B. A., Miss Pryor, Dr. MacMechan, Longmans & Co., Y. M. C. A., 3 vols. each. E. P. Robins, Esq., M. A. ; Dr. J. D. Logan, Rev. T. Fowler, C. D. Cory, Esq., 2 vols. each. Y. W. C. A. Dr. W. Kingsford, Miss Lord, Pres. J. G. Schurman, S. A. Morton, Esq., M. A., D. J. G. Hodgins, Univ. of Edinburgh, Prof. J. Davidson, C. A. Cordiner, Esq., B. Sc., H. Campion, Esq., F. B. Crofton, Esq., Mrs. F. B. Crofton, Early English Text Soc. ; Mr. Hamilton, "Library Committee of Parliament," E. W. Forbes, Esq., M. A., Mass. Commonwealth, 1 vol. each.

Reports have been received from—Dominion Government, 10 ; U. S. Commissioner of Education, 4 ; Toronto Univ. 3 ; Geological Survey of Canada, 2 ; Smithsonian Institution, 2 ; Nat. Hist. Soc. N. B. 2 ; Supt. of Education, N. S., 2 ; Princeton Univ., 2 ; Ontario Government ; Supt. of Education, P. E. I. ; Superintendent of Education, Que. ; City of Halifax, Y. M. C. A. of North America ; Cornell, Harvard, Trinity, and Johns Hopkins Universities ; Univ. Club, N. Y., 1 each.

Calendars and reports have been received from the following Universities and Colleges:—Edinburgh ; Glasgow ; Aberdeen ; St. Andrew's ; London ; Durham ; Bristol ; Victoria ; Dundee ; St. Mungo's ; Trinity Coll., Lond. ; Sydney ; Melbourne ; Buenos Aires ; Princeton ; Yale ; Harvard ; Michigan ; Johns Hopkins ; Mass. Institute of Technology ; Vassar ; Howard ; Nebraska ; Colorado ; Wellesley ; Mt. Holyoke ; Manitoba ; Toronto ; McMaster ; Queen's ; McGill ; Bishop's College ; Trinity ; Victoria ; Western Univ., Ont. ; Laval ; Morrin ; Ottawa ; Knox ; Presbyterian Theol. Coll., Halifax ; New Brunswick ; Mount Allison ; Acadia ; King's ; Prince of Wales ; St. Joseph's ; St. Dunstan's ; St. Francis Xavier ; St. Boniface ; Presbyterian Theol. Coll., Montreal ; L'Academie Commerciale, Montreal ; Chicago, Auburn and Hartford Theol. Seminaries ; Halifax Conservatory ; Pictou Acad. ; Amherst Acad. ; Church School for Girls, Wind. ; School of Mining, Kingston.

Periodicals have been regularly placed on the Reading Tables and in many cases given to the Library by the following:—Prof. C. Macdonald : *Nineteenth Century* ; Prof. J. G.

MacGregor : *Contemporary, Nature, Phil. Magazine, Phys. Rev., Science Abstracts* ; Prof. Weldon : *Forum* ; Prof. W. Murray : *Mind, Nation* ; Prof. H. Murray : *Cosmopolitan, McClure* ; Prof. E. Mackay : *Chemical News, Popular Science Monthly* ; A. H. R. Fraser, Esq., LL. B. : *Amer. Hist. Rev., English Hist. Rev.* ; also *Int. Jo. of Ethics, Philos. Review, Classical Review, Psychological Review, Educational Review* (N. B. & N. Y.), *Spectator, Book Reviews, Economic Studies, Publications of Amer. Econ. Assoc.*

The Library has been open five days each week from 10 to 1 and from 3 to 5. Over 3000 books were taken out during the session. There has been a slight increase in the number of students who spend some time reading in the Library. During the past session 37 books have been reported missing, but of these 27, and three of those reported missing previous to November 1897, have been returned. Again the Librarian has great pleasure in reporting that the students have not only contributed very liberally in presentations, but have rendered every assistance in the recovery of missing books and in securing quiet during reading hours. The Assistant to the Librarian for the past session was Miss Nora K. MacKay, who discharged her duties in a highly satisfactory manner. She divided the work with Miss Mary Austen, M. A. The salary of the Assistant was provided by the Board of Governors.

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### THE UNIVERSITY MUSEUM.

The Museum\* consists chiefly of the THOMAS McCULLOCH and the PATTERSON COLLECTIONS.

THE THOMAS McCULLOCH COLLECTION was presented to the University in 1881, by the late Rev. William McCulloch, D. D., of Truro, with a fund of \$1,400 for extending the collections. It formed the museum of Prof. Thomas McCulloch, who occupied the chair of Natural Philosophy from 1863 to 1865. It contains a large and valuable collection of birds, especially of the native birds of the Maritime Provinces, many specimens of minerals, especially of Nova Scotian species, also rock specimens, a set of Carboniferous fossils, chiefly Nova Scotian, and a collection of European Cretaceous fossils, Indian implements, shells of recent Mollusca, native plants, &c. These collections were made in part by Rev. Thomas McCulloch, D. D., the first President of the College. The McCulloch collection of birds has recently been increased by additions paid

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\*The Provincial Museum, in the New Provincial Building, Market Square, contains collections illustrating the Mineralogy, Geology and Zoology, of the Province, and is open to the public daily. It may be conveniently used by Students.

for out of the McCulloch Museum Fund. An arrangement has been made with Mr. T. J. Egan, by which his valuable collection, containing about 30 cases of native birds, has been placed in the Museum on loan.

THE PATTERSON ARCHAEOLOGICAL COLLECTION.—The collection of Indian Antiquities was made by the late Rev. George Patterson, D. D., LL. D., F. R. S. C., while engaged during a number of years in researches regarding the history and modes of life of the aborigines of Nova Scotia. The collection was presented by him to the College in 1889, on the condition that the Governors should make suitable "provision for the preservation and exhibition of the same, in such a manner as is usual in well managed museums." It is kept as a separate collection. It contains 288 specimens, separately catalogued, and is arranged conveniently for reference. About 250 of the specimens have been obtained in Nova Scotia; they illustrate the stone age of its aboriginal inhabitants, and form an almost complete representation of the articles usually found among the remains of the native races of North America. There is also a number of similar articles from the United States, Scotland, the West Indies, and especially the New Hebrides. The classified catalogue of the collection, which is arranged according to the method adopted in the description of the archaeological collections of the Smithsonian Institution, contains full particulars of the localities where the several specimens were obtained.

During the present year a collection of specimens has been added to the Zoological section by Dr. A. Halliday, Lecturer on Zoology. A wall case with shelves and lockers has been provided for the accommodation of the class in this subject.

Dr. A. Halliday, requests alumni and friends to send to the Museum anything that they consider likely to be useful in the study of Biology. Tropical specimens of any kind (shells, &c.), are especially desired.

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## THE GYMNASIUM.

All students on paying the registration fee, are entitled to the use of the Gymnasium. During the past session instruction was given four hours per week to classes of about fifty by Sergt-Major Long. The attendance and results were better than ever before.

## THE ALUMNI ASSOCIATION.

(Incorporated 1876.)

### EXTRACT FROM THE LAWS.

1. The object of the Association shall be the promotion of the interests of the University.

2. The Association shall consist of Ordinary and Associate Members.

3. All Graduates of the University, all persons who, during at least one academic year, have been registered students, either of Dalhousie College or of colleges which have been merged in or united with Dalhousie College, and all other persons who have at any time been educated by means of the funds of Dalhousie College, shall be eligible for ordinary membership. But no persons other than graduates shall become members until three years have elapsed from the date of their first entering the college, except by special permission of the Executive.

4. Persons not eligible for membership under Section 3 may be elected Associate members.

### ABSTRACT OF MINUTES OF ANNUAL MEETING.

The Annual Meeting was held at the College on the evening of April 24th, the President, Dr. G. M. Campbell, occupying the chair. There was a somewhat larger attendance than usual, especially of members resident in the city.

The report of the Executive Committee dealt with the work done by the Committee during the year. A sub-committee had taken into consideration the subject of the constitution of the governing bodies of other Universities and prepared a report upon it. The amount voted to the Faculty of Science at last meeting had been paid to the Dean, and a statement of its expenditure (with vouchers) had been received from him. The grant had been used chiefly in providing skeletons, apparatus and books for the Zoology Class, which has been organized for the first time during the past year. The Lecturer reports that he found the materials furnished by the grant of the greatest value in the work of the class.

The report of the Treasurer showed the financial condition of the Association to be as follows :

*Receipts.*

Balance on hand, April 26th, 1898.....	\$ 101 12
Subscriptions for the current year .....	139 75
	<hr/>
	\$ 240 87

*Expenditure.*

Paid to Science Faculty (annual grant for scientific books and apparatus).....	\$ 150 00
Paid for postage, printing, &c.....	35 04
Balance on hand, April 21st, 1899.....	55 83
	<hr/>
	\$ 240 87

Prof. E. Mackay presented the report of a sub-committee of the Executive on the constitution of the governing bodies of other universities. It was resolved that the report be printed and copies sent to members of the Association, in order to facilitate the discussion, at the next meeting, of the constitution of the Board of Governors of this College.

The following were elected officers of the Association for the ensuing year :—

<i>President</i> .....	J. W. LOGAN.
<i>Vice-Presidents</i> .....	{ DR. E. MACKAY. MR. C. H. CAHAN.
<i>Secretary</i> .....	R. T. MCLREITH.
<i>Treasurer</i> .....	S. A. MORTON.
<i>Other members of Executive</i> .....	{ DR. G. M. CAMPBELL. MR. J. C. O'MULLIN. MR. A. H. S. MURRAY. MR. H. V. BIGELOW. EDW. FARRELL.
<i>Auditors</i> .....	{ W. A. LYONS. H. B. STAIRS.

After adjournment the members of the Association proceeded to the Law Library, where supper was provided by members resident in Halifax, and opportunity was afforded of renewing old acquaintances and making new ones.



**The Medical 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 by city doctors.

OFFICERS.

<i>President</i> .....	J. G. MUNROE.
<i>Vice-President</i> .....	W. P. REYNOLDS.
<i>Secretary</i> .....	E. R. FAULKNER, B. A.
<i>Treasurer</i> .....	C. B. ROACH.
<i>Executive Committee</i> .....	{ L. J. GIOVANETTI.
	{ L. CROSBY.
	{ J. B. MCKENZIE, B. A.

**The Sodales Debating Club.**

The Sodales Debating Club meets fortnightly during the session, subjects of general interest being discussed. A series of lectures by prominent public men will be given under the auspices of the club.

OFFICERS.

<i>Honorary President</i> .....	PROF. B. RUSSELL, LL. D., M. P.
<i>President</i> .....	CHAS. SEELEY, (ARTS.)
<i>Vice-President</i> .....	C. D. LIVINGSTONE, (LAW.)
<i>Secretary</i> .....	R. S. BOEHNER, (SCIENCE.)
<i>Treasurer</i> .....	{ G. G. ARCHIBALD, (ARTS.)
	{ F. A. MORRISON, (ARTS.)
<i>Executive Committee</i> .....	{ CHAS. PASEA, (SCIENCE.)
	{ A. L. DAVISON, (LAW.)
	{ S. A. FULTON, (MEDICINE.)
	{ W. T. HALLAM, (ARTS.)
	{ J. W. WELDON, (ARTS.)
<i>Lecture Course Committee</i> .....	{ E. COFFIN, (ARTS.)
	{ F. W. TAYLOR, (MEDICINE.)
	{ W. S. McDONALD, (ARTS.)

**The Mock Parliament.**

The Mock Parliament meets weekly. All students of the University are welcome, but only students in law are allowed to take part in the debates, which are mostly of a political nature, on questions of the day. It is conducted strictly in accordance with parliamentary procedure.

<i>Speaker</i> .....	C. J. BURCHELL, B. A.
<i>Deputy Speaker</i> .....	C. KILLAM, M. A.
<i>Clerk</i> .....	R. MATHESON

**Young Men's Christian Association.**

Meetings of the Association are held every Saturday evening at the College.

OFFICERS.

<i>President</i> .....	C. A. MYERS.
<i>Vice-President</i> .....	ERNEST COFFIN.
<i>Recording Secretary</i> .....	STEWART MACDONALD.
<i>Corresponding Secretary</i> .....	GRASSIE ARCHIBALD.
<i>Treasurer</i> .....	CHAS. M. PASEA.

## Young Women's Christian Association.

## OFFICERS.

<i>President</i> .....	EDITH M. READ.
<i>Vice-President</i> .....	JEAN A. M. GORDON.
<i>Secretary</i> .....	M. A. O'BRIEN.
<i>Treasurer</i> .....	RUTH SIMPSON.

## 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 years standing are required to take part in at least one case during the session. (See Law Faculty.)

## The Daihousie Athletic Club.

## OFFICERS.

<i>Honorary President</i> .....	REV. PRESIDENT FORREST.
<i>President</i> .....	E. B. ROACH.
<i>Vice-President</i> .....	E. R. FAULKNER, B. A.
<i>Secretary</i> .....	J. B. MCKENZIE, B. A.
<i>Honorary Treasurer</i> .....	R. T. MACILREATH, LL. B.
<i>Executive Committee</i> .....	A. H. S. MURRAY.
	N. G. MURRAY, B. A.
	W. R. HALL, B. A.
	C. M. PASEA.
<i>Trophy Committee</i> .....	F. A. MORRISON, LL. B.
	R. T. MACILREITH, LL. B.
<i>Ground Committee</i> .....	D. JARDINE, B. A.
	J. A. MACKINNON, LL. B.
<i>Captain of Football Team</i> .....	R. T. MACILREITH, LL. B.
	JOHN O'MULLIN.
	D. JARDINE, B. A.

## The Glee Club.

The Club meets once a week for the practice of glees and choruses.

## OFFICERS.

<i>Honorary President</i> .....	PROF. C. MACDONALD.
<i>President</i> .....	A. M. MCLEOD.
<i>Vice-President</i> .....	EUGENIE ARCHIBALD.
<i>Secretary</i> .....	C. O. MAIN.
<i>Treasurer</i> .....	J. H. A. ANDERSON.
<i>Executive Committee</i> .....	FANNY R. COVEY.
	RUTH SIMPSON.
	CATHERINE F. MAIR.
	W. A. DYMOND.
	L. A. MCLEAN.
<i>Conductor</i> .....	W. W. CONRAD.
<i>Accompanist</i> .....	W. R. SHUTE.
	ETHEL E. BENTLEY.

## The Philosophical Club.

Five or six meetings during the session are held by this Club for the discussion of current questions of philosophical interest.

## OFFICERS.

<i>Honorary President</i> .....	A. S. MORTON, M. A., B. D.
<i>President</i> .....	J. H. A. ANDERSON, B. A.
<i>Secretary-Treasurer</i> .....	J. W. A. NICHOLSON, M. A.



## AFFILIATED COLLEGES.

## Halifax Ladies' College.

*President* . . . . . REV. R. LAING, M. A.

*Principal* . . . . . MISS MARGARET S. KER, (Math. Hons., Cambridge.)

The object of the College is to provide a liberal education for young women. It has three departments of study,—the Primary, the Preparatory, and the Collegiate.

In the Collegiate department there are two courses of study, one extending over three years and the other over four, and both including English, French, German, Latin, Greek (optional), Mathematics, and Elementary Science. The teaching staff in this department in 1898-9 has been as follows :

MISS M. S. KER, *Mathematics*.

MRS. MARGARET F. TRUEMAN, M. A. (Dal.), *History, Literature, Latin and Greek*.

MISS REGINA STERN, L.L. A. (St. Andrew's), *French and German*.

MISS BLANCHE LEHIGH, A. T. C. M. (Tor.), *Elocution*.

MISS ALICE W. CORBIN, *Shorthand, Bookkeeping and Typewriting*.

MISS CECILIA DICKIE, B. A. (Wellesley), *Science*.

MISS E. HUNTER, B. A. (N. B. University).

MISS MARIA STEWART.

Young women who have completed the three years' course are admitted to the First year in the Arts and Science Faculties in this University without examination in subjects which formed parts of the course. Those who have completed the four years' course are similarly admitted to the second year.

The College Buildings, which include a Hall of Residence as well as Class Rooms and Assembly Hall, are situated in a central part of the City of Halifax, at a distance of about three-quarters of a mile from Dalhousie College. Young women who are registered students of Dalhousie College are admitted to the Ladies' College as boarders. The conditions of admission and the charges may be ascertained on application to the President.

The College has an Art Studio in which instruction in Fine Art is given by Mr. H. M. Rosenburg, Head Master of the Victoria School of Art and Design.

## Halifax Conservatory of Music.

*President* . . . . . REV. ROBERT LAING, M. A.  
*Musical Director* . . . . . MR. C. H. PORTER, JR.

## FACULTY OF INSTRUCTION.

*Piano*.—MR. C. H. PORTER, Graduate of the Royal Conservatory at Leipsic.

“ MRS. M. WALLACE.

“ MISS E. PAGE.

“ MR. J. H. LOGAN, Graduate of the Royal Hochschule at Berlin.

“ MISS HELEN TILSLEY, Graduate of Halifax Conservatory of Music.

“ MISS ESTHER CLARKE, Graduate of Halifax Conservatory of Music.

“ MISS LOUISE TUPPER, Graduate of Halifax Conservatory of Music.

*Violin*.—MR. MAX WEIL, Graduate of the Royal Conservatory at Leipsic.

“ HERR BRUNO SIEBELTS, Graduate of the Royal Conservatory at Leipsic.

*Viola*.—MR. MAX WEIL.

*Voice*.—MR. CHAS. B. WIKEL, New York.

“ MISS FLORENCE W. LEWIS, H. C. M.

*Organ*.—MR. NEWMAN ATHOE.

“ MR. J. H. LOGAN.

*Clarionet*.—MR. HARRY HANSON.

*Cornet*.—MR. T. L. COVEY.

*Flute*.—MR. JAS. IVIMEY.

*Bassoon and String Bass*.—MR. HENRY STREETER.

*Theory and Composition*.—MR. C. H. PORTER.

*Harmony*.—MR. NEWMAN ATHOL.

*History of Music*.—REV. ROBERT LAING, M. A.

The classes in Theory and Composition conducted by Mr. Porter, in Harmony by Mr. Athol, and in History by Rev. R. Laing, are recognised by this University as qualifying for the Degree of Bachelor of Music.

The Conservatory opens on the first WEDNESDAY of SEPTEMBER, and closes on the last WEDNESDAY OF JUNE in each year.

Applications for information to be addressed to the President, REV. ROBERT LAING, *Halifax, N. S.*

# University Lists.

## DEGREES

Conferred April 25th, 1899.

### MASTER OF ARTS.

- BAIRD, FRANK, B. A. (U. N. B.) *By Examination in Shakspeare.*  
BURCHELL, CHARLES JOST, B. A. (Dal.) *By Thesis "On the Division of Power between the Dominion and Provincial Legislatures."*  
McKAY, WILLIAM RODERICK, M. A. (Princeton). *Ad eundem gradum.*  
MILLAR, JAMES ROSS, B. A. (Dal.) *By Examination in Virgil, Horace and Lucretius.*  
MURDOCH, WILLIAM CLARENCE, M. A. (Princeton). *Ad eundem gradum.*  
WATT, ARTHUR WILLIAM, B. A. (Dal.) *By Examination in Mathematics.*

### BACHELOR OF ARTS.

- ANDERSON, CHARLES WILLOUGHBY ..... Halifax.  
ANDERSON, JAMES HENRY ADDISON ..... St. Peter's, Bay, P. E. I.  
ARCHIBALD, EUGENIE ..... Truro.  
BAIRD, JOHN WILLIAM ADAMS ..... River Hebert, N. S.  
BARNES, JAMES ..... Halifax.  
BORDEN, LORRIS ELIJAH ..... Sheffield Mills.  
BURRIS, GRACE DEAN ..... Upper Musquodoboit.  
CAMPBELL, JESSIE BROWN ..... Halifax.  
CHASE, MARGARET HAWTHORNE ..... Onslow.  
CUMMING, ALISON ..... Truro.  
DAVIS, ROY ..... Clifton.  
FISHER, FRANKLIN ..... Bay of Islands, Nfld.  
FORBES, GEORGE ERNEST ..... Little Harbor, Pictou Co.  
FULTON, CLARENCE ..... Lower Stewiacke.  
GLOVER, BENJAMIN ..... Georgetown, P. E. I.  
HEBB, ARTHUR MORRISON ..... Bridgewater.  
KEITH, DONALD, JR. .... Halifax.  
LINDSAY, CHARLES FOWLER ..... Halifax.  
McINTOSH, CHARLES CAMPBELL ..... Malagawatch, C. B.  
MACKAY, ANNIE ..... Pictou.  
MACKENZIE, GEORGE NORRIS ..... Parrsboro', Cumb. Co.  
McKENZIE, GEORGE WILLIAM ..... St. George's Channel, C. B.  
MACKENZIE, JANIE LUCINDA ..... Bedford.  
McLELLAN, LEANDER BLAIR ..... Noel Shore, Hants Co.

MCLEOD, ALBERT MORRISON . . . . .	Lorne.
MESSINGER, RALPH JAMES . . . . .	Bridgetown.
MOODY, GEORGINA MAUD . . . . .	Halifax.
MUNRO, HENRY FRASER . . . . .	Pictou.
MURRAY, ADAM HENRY STEWART . . . . .	Halifax.
O BRIEN, CLARENCE WILBERT . . . . .	Noel, Hants Co.
O'BRIEN, OSMOND FRANKLIN . . . . .	Noel, Hants Co.
OUTHIT, WILLIAM EDWARD . . . . .	Melvorn Sq , Annapolis Co
RAMSAY, JAMES ARCHIBALD . . . . .	Hamilton, P. E. I.
RICE, GRACE ELIZABETH BERNARD . . . . .	Weymouth.
ROSS, GEORGE MURRAY . . . . .	Blue Mt., Richmond Co.
ROSS, THEODORE . . . . .	Ross's Corner, P. E. I.
ROUTLEDGE, ARTHUR WESTON . . . . .	Sydney.

## BACHELOR OF LETTERS.

HOBRECKER, ALMA HELENA . . . . .	Halifax.
LAWLOR, GERTRUDE LOUISE . . . . .	Dartmouth

## BACHELOR OF SCIENCE.

CORDINEE, CHARLES ALONZO . . . . .	Grove's Point.
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## BACHELOR OF LAWS.

AYRE, GEORGE WILLIAM BULLEY . . . . .	St. John's, Nfld.
BURCHELL, CHARLES JOST, B. A. (Dal.) . . . . .	Sydney, C. B.
CAMERON, JOHN ALEXANDER HUGH, B. A. St. Fr. Xav ) . . . . .	Mabou, C. B.
DOUGLAS, JOHN CAREY, A. B. (Mt. All.) . . . . .	Stellarton.
FAWCETT, JOHN LOUIS . . . . .	Sackville, N. B.
FREEMAN, CHURCHILL LOCKE, A. B. (Acad.) . . . . .	Milton.
GRAY, WILLIAM SMITH, B. A. (Dal.) . . . . .	Halifax.
KILLAM, CECIL, A. M. (Mt. All.) . . . . .	Yarmouth.
MACDONALD, FINLAY . . . . .	Hawkesbury.
MCINTYRE, ARCHIE A., B. A. (St. Fr. Xav.) . . . . .	Antigonish.
MACKAY JOHN JAMES . . . . .	Pictou.
MACKAY, HENRY SEATON . . . . .	Westville.
MACMILLAN, NEIL A., B. A. (St. Fr. Xav.) . . . . .	East Bay.
MATHESON, JOSEPH DUNCAN . . . . .	Marble Mountain.
MURPHY, THOMAS WILLIAM . . . . .	Halifax.
NEWCOMB, LOUIS FORRESTER . . . . .	Sheffield Mills.
NICHOLS, FRANK WILLIAM, A. B. (Acad.) . . . . .	Digby
O'MULLIN, JOHN COLL . . . . .	Halifax.
RICHARDSON, JOHN WILLIAM . . . . .	St Andrew's.
ROSS, HOWARD SALTER, A. B. (Acad.) . . . . .	North Sydney.
SARGENT, JOSEPH HEINRICH . . . . .	Barrington.
SLAYTER, JAMES MORROW . . . . .	Halifax.
WADDELL, WILLIAM HENRY, B. A. (Dal.) . . . . .	Halifax.

## DOCTOR OF MEDICINE AND MASTER OF SURGERY.

ALMON, WILLIAM BRUCE .....	Halifax.
ATKINSON, EDWARD PAYSON .....	Baie Verte, N. B.
*DICKEY, HUGH LEVERETTE .....	Upper Canard, King's.
FARRELL, EDWARD DOMINICK .....	Halifax.
FARRELL, LOUIS PATRICK .....	Halifax.
GOODWIN, WENDELL VANKLEECK .....	Baie Verte, N. B.
*MCDONALD, EDWARD MURRAY .....	Sydney Mines, C. B.
MACKAY, JOHN ST. CLAIR .....	Earltown.
MCLEAN, MURDOCK THOMAS .....	Groves' Point, C. B.
MCMILLAN, CHARLES EDWARD, B. A. (Dal.)..	Whycocomagh, C. B.
MUNROE, JAMES GILBERT .....	River John, Pictou.
RANDALL, MARY LEILA .....	Bayfield, Antigonish.
SHAW, SIDNEY EVERETT .....	Waterville, Kings.

\*Degree conferred on Sept. 14th, 1898.

## HONOURS, MEDALS, Etc., 1898-99.

## HONOURS.

*English and English History.*

DAVIS, R. .... High Honours.

*Philosophy.*

ANDERSON, J. H. A ..... Honours.

MACKENZIE, G. N. .... High Honours.

*Pure and Applied Mathematics.*

BAIRD, J. W. A ..... High Honours.

BARNES, J. .... Honours.

LAWLOR, GERTRUDE L .... High Honours.

McKENZIE, G. W. .... Honours.

MESSENGER, R. J. .... Honours.

MURRAY, A. H. S. .... High Honours.

*Chemistry and Chemical Physics.*

LINDSAY, C. F. .... High Honours.

## DISTINCTION.

ARCHIBALD, EUGENIE ..... Distinction.

CUMMING, A. .... Distinction.

ROSS, T. .... Great Distinction.

## MEDALS AND GRADUATE PRIZES.

BAIRD, J. W. A ..... Sir Wm. Young Gold Medal.

MACKENZIE, G. N. .... University Medal.

ROSS, T. .... Avery Prize.

## UNDERGRADUATE PRIZES AND SCHOLARSHIPS.

MACKIE, I. C.....	Waverley Prize.
LAWSON, D. A.....	Senior Professors' Scholarship.
COFFIN, E. W.....	Junior Professors' and Young Scholarships.
CHRISTIE, G. A.....	Junior Young Scholarship.
MACKENZIE, K. F.....	Mackenzie Bursary.
CHRISTIE, C. V.....	Junior Young Scholarship.
MORRISON, BERTHA L.....	Junior Young Scholarship.

## EXAMINATIONS, 1898-99.

## FACULTIES OF ARTS AND SCIENCE.

## MATRICULATION EXAMINATIONS.

SENIOR.—*Passed*: Lawson, David Alex. *Passed in certain subjects*: Ross, David Charles, in *Latin*; Archibald, Geo. Grassie, in *Mathematics*; Macdonald, Murdoch Stewart, in *Mathematics and Chemistry*; Myers, Chas. Allan, in *Greek*; Spencer. Arthur Gordon, in *Chemistry*; Kent, Harry Arnold, in *Chemistry*; MacKenzie, G. N., in *Geometry*; Ross, George Murray, in *Chemistry*.

JUNIOR.—*With First Class Distinction*: Coffin, Ernest Wm., Christie, Geo. Archibald. *With Second Class Distinction*: MacKenzie, Kenneth Ferris; Christie, Clarence Victor; Morrison, Bertha Leila. *Passed in certain subjects*: Lindsay, Murdoch Alex., in *Latin*; Forrest, Catharine Munro, in *French and History and Geography*; Archibald, Eugenie, in *Latin and French*; Sedgewick, Garnett Gladwyn, in *Latin*; Macdonald, Thos. Forrester, in *Latin and History and Geography*; MacLeod, Albert Morrison, in *Greek*; Wilson, Joseph Lovitt, in *Latin and French*; Macdonald, Archibald, in *Latin English, Geometry and Algebra, History and Geography*; McLeod, John Charles in *English and History and Geography*; Cordiner, C. A., in *French and German*.

## MATRICULATED BY CERTIFICATE.

SENIOR.—Archibald, Geo. Grassie, (*Mathematics* excepted); Best, Lillian Gertrude; Boehner, Reginald Stephen, (*Latin* partially excepted); Borden, L. E., (*Geometry* only); Grant, Wm. McDonald; Layton Robt. Blackwood (*Algebra* partially excepted); Lyons, Francis Patrick McMahon, (*Mathematics* partially excepted); Macdonald, Murdoch Stewart, (*Mathematics and Chemistry* excepted); McKay, Wm Alfred, (*Arithmetic and Algebra* excepted); Miller, Lemuel James; O'Brien, Mary Augusta; Ross, Daniel Edward.

JUNIOR. — Archibald, Edith Marg. Mellish; Baker, Harold O'Connor, (*Latin and French* excepted); Bentley, Regina Alice, (*French* excepted); Campbell, James A.; Fulton, Thos Truman; Howatt, Irving Brass; Macdonald, Campbell; Macdonald, Thos. Forrester, (*Latin and History and Geography* excepted); Macdonald, Thos. Henry; MacKenzie, Wm. Roy, (*Algebra* excepted); McLean, Neil John, (*French and German* excepted); Mäder, Leroy Edred Joel; Montgomery, Chas. H.; Nicholson, Daniel John; Parker, Edward Ross; Sedgewick, Garnett Gladwyn, (*Latin* excepted); Stavert, Hensley; Urquhart, Dolena Florence; Wilson, Joseph Lovitt, (*Latin and French* excepted); Wood, Burton Justice (one foreign language excepted).

## ADMITTED AD EUNDEM STATUM.

SECOND YEAR OF ARTS COURSE.—Hallam, Wm. Thos. (Western University, Ont.)

## SPECIAL EXAMINATIONS.

*Senior Physics and First German.*—Lindsay, C. F. *Junior History and Political Economy,* O'Brien, O. F.

## SUPPLEMENTARY EXAMINATIONS.

LATIN—*Second:* Cunningham, W. A., (Xmas Ex.); Fleming, Nancy O. (Spring Ex.). *First:* Forbes, H. D. (Spring Ex.).

GREEK—*First:* MacLeod, A. M., (Xmas Ex.).

FRENCH.—*Second:* Mackay, A. M.

ENGLISH.—*Second:* O'Brien, C. W.; O'Brien, O. F.; Ross, D. C. *First:* Ross, D. C.

HISTORY.—*Junior:* Mackay, R. G.

PHILOSOPHY.—*Senior:* McCaskill, J. J., Cunningham, W. A., Mackay, R. G.; MacLeod, J. C. *Junior:* Mackay, A. M.; Cordiner, C. A.; Routledge, A. W.

MATHEMATICS.—*Senior:* Borden, L. E., (Geom.). *Junior:* Fisher, F., (Alg.); Simson, R., (Alg.); Carr, J. B., (Alg.); MacKeen, J. A., (Geom.).

PHYSICS.—*Junior:* O'Brien, C. W.; Hobrecker, Alma; Campbell, Jessie Brown.

CHEMISTRY.—*Junior:* Simson, R.

## DEGREE EXAMINATIONS.

## CLASS LISTS.

(Containing the names, arranged in order of merit, of all students who have passed in the subjects of the various classes.)

## LATIN.

THIRD: *Class I*—Macdonald, W. S.; Thomson, C. A.; Weldon, J. W.; (Johnstone, M. S.; Kent, H. A.) Macleod, E. A.; Ramsay, E. H. *Class II*—Bentley, J. S. *Passed*—Campbell, Jessie Brown; Cunningham, A. R.; Worsley, P. J.; Wood, T. C.; Rankine, John; Douglas, Edgar; Rice, Grace; Fleming, Nancy; O'Brien, O. F.; Flemming, Ethel; Mair, Catherine F.; (MacKay, Nora; Mackenzie, Janie L.); Simpson, Ruth.

SECOND: *Class I*—Mackie, I. C.; Hallam, W. T.; O'Brien, Mary A.; Archibald, G. G.; Best, Lillian G.; Williams, Winifred B.; Layton, R. B. *Class II*—Grant, W. M.; Ruggles, V. D. *Passed*—MacKay, W. A.; McPherson, M. J.; Miller, L. J.; Ross, D. E.; Harvey, E. K.; Vance, F. S.; Lawson, D. A.; Forrest, Jean F.; Parker, E. R.; McArthur, A.; Lyons, F. P.; Gordon, Jean; Stuart, Mary E.; (Cameron, Fraser; Carr, J. B.) Main, C. O.; McDonald, W. *Passed the Christmas Examination*—Forbes, H. D.; Cunningham, W. A. *Passed the Spring Examination*—Fleming, Nancy; Marshall, G. R.; Kennedy, J. H.

FIRST: *Class I*—Coffin, E. W.; Mackenzie, K. F.; Sedgewick, G. G.; Montgomery, G. H.; (Howatt, I. B.; Christie, G. A.) *Class II*—Christie, C. V.; Mackenzie, W. R. *Passed*—Fulton, T. T.; Stavert,

R. H. ; Bentley, Regina ; (Baker, H. ; Morrison, Bertha ; Nicholson, D. J. ;) (Campbell, Jessie Bell ; Lindsay, M. A. ; Morrison, F. A. ;) Macdonald, Campbell ; Read, Winifred ; (Urquhart, Do'ena F. ; Wilson, J. L.) *Passed the Christmas Examination*—Stairs, Susan J. *Passed the Spring Examination*—Macdonald, T. F. ; Mader, E. L. ; Macdonald, T. H. ; Ross, G. H.

## GREEK.

THIRD: *Class I*—Macdonald, W. S. ; Thomson, C. A. ; Johnstone, M. S. ; Macleod, E. A. ; Kent, H. A. *Class II*—None. *Passed*—Campbell, Jessie Brown ; Spencer, A. G. ; Rankine, John. *Passed the Christmas Examination*—Ramsay, E. H. ; McIntosh, P. D. ; Myers, C. A. *Passed the Spring Examination*—Mackintosh, F. G. ; Macdonald, Ewen ; Mair, Catherine.

SECOND: *Class I*—Mackie, I. C. ; (Best, Lillian G. ; Hallam, W. T. ; Vance, F. S. ;) Archibald, G. G. *Class II*—Archibald, Eugenie. *Passed*—Ruggles, V. D. ; Grant, W. M. ; McPherson, M. J. ; Lyons, F. P. ; (McIntosh, C. C. ; Carr, J. B. ;) Ross, D. E. ; McKay, W. A. ; Gordon, Jean ; Lawson, D. A. *Passed the Spring Examination*—Main, C. O.

FIRST: *Class I*—Coffin, E. W. ; Mackenzie K. F. ; Sedgewick, G. G. *Class II*—Montgomery, C. H. ; Christie, C. V. ; Stavert, R. H. *Passed*—Christie, G. A. ; Fulton, T. T. ; Nicholson, D. J. ; Read, Winifred. *Passed the Spring Examinations*—Fleming, Nancy.

## FRENCH.

THIRD: *Class I*—Pasea, Chr. M. ; Harvey, Edward K. ; Weldon, Joseph W. ; Read, Edith McG. ; Layton, R. B. ; Bentley, J. S. ; Miller, L. J. ; Mackay, Nora ; Forrest, Jean F. ; Macdonald, M. S. *Class II*—Fleming, Nancy ; Hobrecker, Alma ; Stuart, Mary E. ; O'Brien, O. F. *Passed*—O'Brien, C. W. ; McLellan, L. B. ; Johnstone, M. S. ; Cordiner, Chs. A. ; Donovan, W. ; Mackay, A. M.

SECOND: *Class I*—Parker, E. Ross ; Ruggles, V. D. *Class II*—Mackay, Annie ; Cameron, Fraser ; Urquhart, Miss D. F. ; Hobrecker, Hedwig. *Passed*—Forrest, Catherine M. ; McArthur, J. A. ; Kennedy J. ; McCaskill, J. J. ; Crowe, Henry S.

FIRST: *Class I*—Howatt, Irvin B. ; Morrison, Bertha *Class II*—Wilson, J. L. ; Baker, H. McC. ; McKenzie, W. R. *Passed*—McLean, N. J. ; Campbell, J. A. ; Macdonald, Thos. R. ; Morrison, John W. G. ; Campbell, Jessie B. ; Bentley, Regina A. ; Morrison, F. A.

## GERMAN.

FOURTH: *Class I*—Hobrecker, Alma.

THIRD: *Class I*—Stewart, Elizabeth H. ; Anderson, Bernard C. ; Williams, Winifred B. *Class II*—Lawlor, Gertrude.

SECOND: *Class I*—Messenger Ralph ; Cumming, Alison. *Passed*—Lindsay, Chs. ; Borden, L. E. ; Rice, Grace ; McKenzie, G. N.

FIRST: *Class I*—Montgomery, C. H. ; O'Brien, Mary A. ; Coffin, E. W. ; Campbell, D. McD. ; Pasea, Chs. M. ; Read, Edith McG. ; Bentley, J. S. ; Spencer, A. G. *Class II*—Boehner, R. S. ; Grant, Clarence. *Passed*—McLean, N. J. ; Lindsay, M. A. ; Campbell, J. A.

## ENGLISH.

FOURTH: *Class I*—None. *Class II*—None. *Passed*—Burris, Grace D. ; Mackenzie, G. N. ; Hobrecker, Alma ; Seeley, C. H. ; Fulton C. E. ; Rice, Grace ; (Archibald, Eugenie ; Chase, Margaret



H. ; Glover, B. ; Outhit, W. E. ; Mackintosh, C. C. ; ) (Fullerton, A. W. ; Morrison, J. W. G. ; ) Anderson, C. W. ; MacCaskill, J. J. ; (Keith, D. ; Ross, G. M. ; ) Mackenzie, Jane L. ; (Mackay, Annie ; Macleod, A. M.)

THIRD: *Class I*—Davis, R. ; (Cumming A. ; Worsley, P. J.) *Class II*—Myers, C. A. ; MacKay, Nora K. ; Simpson, Ruth ; Cunningham, A. R. *Passed*—Macleod, E. A. ; Flemming, Ethel ; Rankine, J. ; Mackintosh, F. G. ; Ross, J. S.

SECOND: *Class I*—Gordon, Jean A. M. ; Lawson, D. A. *Class II*—Boehner, R. S. ; Forrest, Jean F. ; Williams, Winifred B. ; Miller, L. J. ; Saunders Grace H. ; Harvey, E. K. ; Best, Lillian G. ; O'Brien, Mary A. *Passed*—Hallam, W. T. ; Stewart, W. E. ; Liechti, Minna ; Layton, R. B. ; Stuart, Mary E. ; Archibald, G. G. ; Kennedy, J. H. ; (Grant, W. M. ; Wood, B. J. ; ) (Main, C. O. ; Macdonald, W. ; ) Parker, E. R. ; Ruggles, V. D. ; McPherson, M. J. ; Hobrecker, Hedwig ; Vance, F. S. ; McKay, W. A. ; (Mackasey, W. P. ; Forrest, Catherine M. ; ) Crowe, H. S. ; Carr, J. B. ; (Fullerton, A. W. ; Mackie, I. C. ; Ross, D. E. ; ) McArthur, A. ; Mackean, J. A. ; Cameron F.

FIRST: *Class I*—Morrison, F. A. ; Sedgewick, G. G. ; Coffin, E. W. *Class II*—Mackenzie, W. R. ; Lindsay, M. A. ; Christie, G. A. *Passed*—Bentley, Regina A. ; Howatt, I. B. ; Morrison, Bertha L. ; (Fulton, T. T. ; Read, Winifred ; ) Montgomery, C. H. ; MacKenzie, K. F. ; (Baker, H. O'C. ; Kennedy, Margaret J. ; ) Urquhart, Dolena F. ; Campbell, Jessie B. ; Macdonald, C. ; Nicholson, D. J. ; Stavert, R. H. ; Chamberlain Lois D. ; Christie, C. V. ; Garraway, Cynthia M. ; McLean, N. J. ; (Campbell, J. A. ; Wilson, J. C.)

#### HISTORY.

SENIOR: *Class I*—(Routledge, A. W. ; Davis, Roy ; ) Ross, T. ; Cumming, A. ; Hobrecker, Alma. *Class II*—Chase, Margaret ; Mackay, Annie ; McLellan. *Passed*—Fisher F. ; Ramsay, J. A. ; McLeod, J. C. ; Campbell, Jessie ; O'Brien, C. W. ; Outhit ; O'Brien, O. F. ; Kent, H. H. ; Cunningham.

JUNIOR: *Class I*—Ramsay, E. H. ; Kent, H. A. ; Worsley, P. J. ; Flemming, Ethel ; Myers, C. A. *Class II*—Simpson, Ruth ; Seeley, Chs. ; Weldon, Jos. *Passed*—McKinnon, D. H. ; Ferguson, J. A. ; Cunningham, A. R. ; McKay, Nora ; Spencer, A. G. ; (Douglas, E. ; McDonald, M. S. ; ) Morrison, J. W. G. ; Rankine, J. ; Wood, T. C. ; Bentley, J. S. ; Fullerton ; Mair, Catherine F. ; McDonald, E. ; Fleming, N. ; McIntosh, F. G. ; McIntosh, P. D.

#### POLITICAL ECONOMY.

ADVANCED: *Class I*—Ross, Theodore ; Seeley, Charles. *Passed*—O'Brien, O. F. ; Kent, H. H. ; Dickey, E. E.

JUNIOR: *Class I*—Routledge, A. W. ; Fulton, C. ; Kent, H. A. *Class II*—(Anderson, C. W. ; Forrest, George M. ; ) Spencer, A. G. ; (Archibald, Eugenie ; Chase, Margaret). *Passed*—Anderson, J. A. ; McLellan ; Hobrecker, Alma ; McDonald, M. S. ; Rice, Grace ; Morrison, J. W. G. ; Burris, Grace ; (Borden, L. E. ; McKenzie, D. W. ; ) McKay, Annie ; Hebb, A. M. ; Bentley, J. S. ; (Keith, Donald ; Wood, T. C. ; ) O'Brien, C. W. ; McKenzie, Jane.

#### PHILOSOPHY.

ADVANCED: *Class II*—Archibald, Eugenie. *Passed*—Chase, Margaret.

SENIOR: *Class I*—Macdonald, M. S. ; Myers, C. A. ; Archibald, Eugenie ; Ramsay, E. H. *Class II*—McLellan, L. B. ; McIntosh, P.

D. ; O'Brien, O. F. *Passed*—McKinnon, D. H. ; Grant, C. F., B. A. ; Campbell, Jessie B. ; Saunders, Grace H. ; Macdonald E. ; Kent, H. H. ; Ross, J. S.

GREEK : *Class I*—MacKenzie, G. N. ; Macdonald, M. Stewart ; Myers, C. A. ; Anderson, J. H. A. ; Ross, T. *Class II*—Hobrecker, Alma ; Chase, Margaret ; McKinnon, D. H. ; Ramsay, E. H. *Passed* Fulton, C. ; Flemming, Ethel A. ; Simpson, Ruth ; Grant, C. F., B. A. ; Anderson, C. W. ; Fisher, Frank ; Outhit, W. E. ; Kent, H. A. ; McIntosh, P. D. ; Johnstone, M. S. ; Ramsay, J. A. ; McIntosh, C. C. ; MacLeod, A. M. ; Glover, B. ; Forbes, G. E. ; Ross, G. M. ; Burris, Grace D. ; Mair, Catherine F. ; MacKay, Annie ; Conrad, W. W., B. A. ; McLeod, J. C. ; Macdonald, E. ; MacCaskill, J. J. ; Kent, H. H. ; Ross, J. S. ; MacKenzie, Jane L. ; MacKay, R. G.

JUNIOR : *Class I*—Archibald, G. G. ; Hallam, W. T. ; Flemming, Ethel A. ; Forrest, Jean F. ; Gordon, Jean A. M. *Class II*—Stuart, Ethel ; Miller, L. J. ; Grant, W. McD. ; Layton, R. B. ; Main, C. O. ; Fullerton, A. W. ; Best, Lillian Gertrude ; Lawson, D. A. ; Hobrecker, Alma ; Mackie, I. C. *Passed*—Cameron, F. ; Ross, D. E. ; Vance, F. S. ; Harvey, E. K. ; Williams, Winifred B. ; Lyons, F. P. M. ; Ruggles, V. D. ; McPherson, M. J. ; Mackay, W. A. ; McArthur, A. ; Carr, J. B. ; McDonald, W. ; Stairs, Susan I. ; Kennedy, J. H. ; Crowe, H. S. ; Forrest, Catherine M.

#### EDUCATION.

*Class I*—Archibald, Eugenie ; Burris, Grace D. *Class II*—MacKay, Annie ; MacLeod, Genevieve ; MacKenzie, G. N. ; Campbell, Jessie B. *Passed*—McIntosh, C. C. ; Garroway, Cynthia ; Kennedy, Margaret ; Anderson, J. H. A. ; MacKay, R. G. ; MacKenzie, Janie L. ; Knight, Emma ; Read, Winifred. *Passed Special*—Baird, J. W. A.

#### MATHEMATICS.

ADVANCED : *Class II*—(Lindsay, C. F. ; Moody, Georgina M.) *Passed*—Stewart, Elizabeth H.

SENIOR : *Class I*—Mackie, I. C. ; Bohner, R. S. ; Archibald, G. G. *Class II*—Ross, D. E. ; O'Brien, Miss M. A. ; Cameron, Fraser ; Gould, W. M. ; Harvey, E. ; Grant, H. M. ; MacArthur, A. *Passed*—Parker, E. R. ; (Best, Miss L. ; Marshall, G. R. ;) Wood, B. J. ; (MacKay, W. A. ; Layton, R. B. ;) (Miller, L. J. ; McPherson, M. J. ;) Lawson, D. A. ; Hallam, W. T. ; Carr, J. B. ; Macdonald, W. ; Main, C. ; (Williams, Miss W. ; Stewart, W. E. ;) Crowe, H. S. ; Vance, F. S. ; Forrest, Miss J. ; (Kennedy, J. H. ; Stuart, Miss M. ;) (Gordon, Miss J. ; Mackean, J. A. ;) Forrest, Miss C. *Passed in Geometry*—Lyons, E. P. ; McKay, A. M. ; Ruggles, V. D. ; Forbes, H.

JUNIOR : *Class I*—Christie, Clarence ; MacLean, N. J. ; Christie, George ; Howatt, J. B. ; Read, Miss W. ; MacKenzie, K. ; Morrison, Miss B. ; Macdonald, T. H. *Class II*—Fulton, T. ; (Macdonald, C. ; Nicholson, D. J. ;) (Baker, H. ; Sedgewick, G. G. ;) Coffin, E. W. *Passed*—Lindsay, M. A. ; Bentley, Miss R. ; Mackenzie, R. ; Stavert, R. H. ; Wilson, J. L. ; Montgomery, C. H. *Passed in Algebra*—Campbell, Miss J. *Passed in Geometry*—Macdonald, F. ; Morrison, F. A. ; Mader, E. L. *Passed Spring Examination*—Ross, G. H.

#### PHYSICS.

ADVANCED MATHEMATICAL : *Passed*—Moody, Georgina M.

SENIOR : *Class I*—Pasea, C. M. ; Hebb, T. C. ; Anderson, B. C. ; Baird, J. W. A. *Class II*—(Campbell, D. M. ; Messenger, R. ;) Murray, A. H. S. ; Read, Edith M. *Passed*—Mackenzie, D. W. ; Barnes, J. ; Mackenzie, G. W. ; Moody, Georgina M. ; Lawlor, Gertrude ; Stewart, Eliz. H. ; Lindsay, C. F.

JUNIOR: *Class I*—Gould, W. M.; Kent, H. A. *Class II*—Boehner, R. S.; Mackenzie, D. W.; Myers, C. A.; O'Brien, Mary A.; Spencer, A. G. *Passed*—Cunningham, A. R.; Wood, B. J.; (Ferguson, J. A.; Ramsay, E. H.) Stewart, W. E.; Parker, E. R.; Douglas, E.; McKinnon, D. H.; Bentley, J. S.; Mackintosh, F. G.; Rankine, J.; Weldon, J. W.; Mackintosh, P. D.; Ross, J. S.; Simpson, Ruth; (Mackay, Nora K.; Mackenzie, Janie; Worsley, P.) *Passed Spring Examination*—Campbell, Jessie B.; Marshall, G. R.

ACCOUSTICS (B. Mus)—*Passed*—Liechti, Bertha; Chamberlain, Lois D.

SENIOR PRACTICAL: *Class I*—Barnes, J.

JUNIOR PRACTICAL (alphabetically arranged): *Class I*—Hebb, T. C.; Patea, C. M. *Class II*—Anderson, B. C.; Read, Edith M. *Passed*—Cordiner, C. A.; Moody, Georgina M.; Stewart, Eliz. H.

#### CHEMISTRY.

SENIOR: *Class I*—None. *Class II*—Cunningham, A. R.; Hebb, T. C.; Boehner, R. S.; Wood, B. J.; Burris, Grace D. *Passed*—Marshall, G. R.

JUNIOR: *Class I*—McLean, W. J.; Mackenzie, K. F.; Christie, George. *Class II*—Lindsay, M. A.; (Mackintosh, P. D.; Morrison, Bertha; Urquhart, Dolena F.) *Passed*—Campbell, J. A.; Howatt, Irving B.; (O'Brien, Mary A.; Sedgewick, G. G.) Coffin, E. W.; Christie, Clarence; Thomson, C. A.; Fulton, T.; Macdonald, C.; Macdonald, T. H.; Macdonald, W. S.; Baker, H. O. C.; Mackintosh, F. G.; Stavert, R. H.; Morrison, F. A.; Wilson, J. L.; Nicholson, D. J.; Bentley, Regina; McKenzie, W. Roy; Read, Winifred; Ross, G. H.; Montgomery, C. H.; Campbell, Jessie B.

ADVANCED PRACTICAL: *Passed*—Cordiner, C. A.

SENIOR PRACTICAL: *Class I*—None. *Class II*—Hebb, A. M.; Morrison, H. T. *Passed*—Gould, W. M.; Spencer, A. G.; Burris, Grace D.; O'Brien, C. W.; Stewart, W. E.

JUNIOR PRACTICAL: *Class I*—Mackenzie, K. F. *Class II*—Ross, Theodore; Anderson, C. W.; Hebb, T. C.; Campbell, D. M.; Keith, Donald; Douglas, Edgar. *Passed*—Ferguson, J. A.

#### BOTANY.

*Class I*—Cumming, A.; Saunders, Grace H.; Routledge, A. W.; Rice, Grace, E. B.; Ross, T.; Anderson, C. W. *Class II*—Forrest, G. M.; Douglas, E. *Passed*—Marshall, R.; Crocker, J. H.

#### ZOOLOGY.

*Class I*—Rice, Grace; Cumming, A.; Anderson, C. W. *Class II*—Saunders, Grace. *Passed*—(Borden, L. E.; Hebb, A. M.) Douglas, E.; Forbes, G. E.

#### APPLIED MECHANICS.

*Class I*—Campbell, D. M.

#### DESCRIPTIVE GEOMETRY.

*Class I*—Gould, W. M.; Campbell, D. M.; Wood, B. J. *Class II*—Stewart, W. E.; Campbell, J. A.

#### JUNIOR SURVEYING.

*Class I*—Forrest, G. M. *Passed*—Campbell, J. A.

## FACULTY OF LAW.

## DEGREE EXAMINATIONS.

## CLASS LISTS.

(Containing the names arranged in the order of merit in the First and Second Class, and alphabetically in the Past List, of students who have passed in the various subjects.)

## INTERNATIONAL LAW.

*Class I.*—Murphy, Gray, Burchell, Newcomb, Waddell, MacDonald, F. *Class II.*—McIntyre, Cameron, Fawcett, Sargent, Routledge. *Passed.*—Ayre, MacKay, H. S., MacKay, J. J., MacMillan, Matheson, J. D., (special), O'Mullin, Richardson, Slayter, Schurman.

## PROCEDURE.

*Class I.*—Burchell, Matheson, J. D., Murphy. *Class II.*—Gray; McIntyre, Sargent, equal; Slayter, Killam. *Passed.*—Cameron, Cummings, Fawcett, Freeman, Johnstone, McMillan, Newcomb, Nichols, O'Mullin, F. McDonald, H. S. McKay.

## CONSTITUTIONAL LAW.

*Class I.*—Begg, Foley, Davison. *Class II.*—Taylor, Hall, Jardine, McLellan. *Passed.*—Ayre, Blenkhorn, Fulton, Keith, Maddin, O'Hearn, Parlee, Reynolds, Routledge, Schurman, Ternan.

## SHIPPING.

*Class I.*—Taylor, Freeman, Nichols. *Class II.*—Foley, Douglas, Jardine. *Passed.*—Begg, Killam, Maddin, O'Hearn, Reynolds.

## REAL PROPERTY.

*Class I.*—Cumming, Sutton, Taylor, Regan. *Class II.*—Hale, Davison, Murray, Schurman, Allison, MacNeil. *Passed* (in alphabetical order).—Blenkhorn, Hall, Livingston, D. F. Matheson, Oland.

## WILLS.

*Class I.*—Begg, Taylor, Hall. *Class II.*—Foley, Allison, Davison, Maddin, Jardine, Blenkhorn. *Passed.*—Hale, O'Hearn, Reynolds, Ternan.

## TORTS.

*Class I.*—Sutton, Cumming, equal; Weldon, D. F. Matheson. *Class II.*—Hale, Davison, Murray; Regan, Allison, equal; Parlee, Oland, equal. *Passed.*—Blenkhorn, Livingstone, MacNeil, Ternan, Wallace.

## CONFLICT OF LAWS.

*Class I.*—McIntyre, Gray, Burchell, Richardson. *Class II.*—Waddell, Ayre, Freeman, Cameron, Newcomb, J. D. Matheson, Taylor, F. Macdonald. *Passed.*—Douglas, Fawcett, Hale, Killam, J. J. MacKay, H. S. MacKay, McMillan, Murphy, Nichols, O'Mullin, Sargent, Schurman, Slayter.

## CRIMES.

*Class I.*—Cumming, Veldon, Regan. *Class II.*—Taylor, Allison, Hall. *Passed.*—Blenkhorn, Davison, Hale, MacNeill, D. F. Matheson, Murray, Oland, Sutton.

## CONSTITUTIONAL HISTORY.

*Passed.*—Cumming, Fullerton, Livingston, W. S. Macdonald, MacKenzie, MacNeill, D. F. Matheson, Morrison, Murray, Oland, Regan, Sutton, Thompson, Wood, Worsley.

## CONTRACTS.

*Class I.*—Cumming, McLellan, Regan, Sutton. *Class II.*—Routledge, Keith, Livingston, Fulton, Murray. *Passed.*—Kent, McNeil, Maddin, D. F. Matheson, Oland, Schurman, Wallace.

## SALES.

*Class I.*—Burchell, Gray, McIntyre, Cameron, Jardine, J. D. Matheson, Freeman, Taylor, Waddell. *Class II.*—Foley, Newcomb, Murphy, Ternan, J. J. MacKay, McMillan, Richardson, Sargent, Douglas, Fawcett, Hale, Nichols, O'Hearn, Killam, F. McDonald. *Passed.*—Allison, Ayre, Begg, Blenkhorn, Hall, H. S. MacKay, Maddin, O'Mullin, Reynolds, Schurman, Slayter, Ternan.

## EQUITY.

*Class I.*—Burchell, MacIntyre, Gray, Murphy, Douglas, Cameron, Waddell, Fawcett, Newcomb, Killam, F. MacDonal. *Class II.*—Jardine, J. J. McKay, J. D. Matheson, Sargent, Maddin, Hall, Taylor, Ternan, Allison, H. S. MacKay. *Passed.*—Freeman, Foley, Davison, McMillan, Richardson, Hale, Nichols, Slayter, Ayre, O'Hearn, O'Mullin, Schurman, Reynolds, Blenkhorn, Begg.

## EVIDENCE.

*Class I.*—Foley, Richardson, Freeman. *Class II.*—Hale, Maddin, Gray, Waddell, equal; Jardine, Newcomb, McIntyre, equal; Douglas, Taylor, Begg, Schurman, McMillan, Burchell, Fawcett, equal; Cameron, Killam, equal; O'Mullin, Slayter, J. J. MacKay, equal; Nichols; Sargent, Murphy, equal. *Passed.*—Ayre, Davison, McDonald, H. S. McKay, O'Hearn, Parlee, Reynolds, J. D. Matheson, (special).

## FACULTY OF MEDICINE.

## GENERAL PASS LIST.

(Alphabetical.)

*Primary M. D., C. M. Examinations.**Sect. "A"—First Year.*

Anthony, T. B., Blackadar, R. L.; Borden, L. E.; Cameron, C. P. P.; Campbell, D. G. J.; Cock, J. L.; Connolly, Wm. Edward; Corston, J. R., *B. A.*; Dickson, C. H., (suppl.); Fulton, S. A.; Hebb, A. M.; Lessel, J. F.; McGarry, P. A.; McKay, Wm; McKenzie, J. B., *B. A.*; Morse, G. R.; Murphy, G. H.; O'Brien, M. A., *B. A.*; Phinney, W. S.; Watson, D. T. C.

*Sect. "B"—Second Year.*

Braine, L. B. W., (suppl.); Cochran, W. N.; Cordiner, C. A.; Cox, R. B.; Crosby, L. M.; DeOloqui, Marie J.; Dickson, C. H.; Faulkner, E. R., *B. A.*; Giovanetti, L. J., (suppl.); O'Donnell, Florence M.; Reynolds, James; Roach, E. B.; Robbins, W. H.; Rodgeron, J. A. C., *B. A.*; Thomas, Lewis; Wardrope, M. J.

## Final M. D. C. M. Examinations.

## Sect. "A"—Third Year.

Braine, L. B. W. ; Braine, Winifred B. ; Dymond, W. A. ; Ernst, Victoria S ; Forbes, A. E. ; Giovanetti, L. J. ; Pennington, J. W. , Pratt, Nelson ; Reynolds, James ; Reynolds, W. P. ; Rodgerson, J. A. C., B. A. ; Salter, O. R. ; Taylor, F. W.

## Sect. "B"—Fourth Year.

Almon, W. Bruce ; Atkinson, E. P. ; Dickey, H. L., (suppl.) ; Farrell, E. D ; Farrell, L. P. ; Goodwin, W. V. ; McDonald, E. M. (suppl.) ; MacKay, J. St. C. ; McLean, M. T. ; McMillan, C. E., B. A. ; Munroe, J. G. ; Randall, Mary L. ; Shaw, S. E.

## DEGREE EXAMINATIONS.

## CLASS LISTS.

Containing the names arranged, in order of merit, of students who passed in the various subjects.

## JUNIOR ANATOMY.

Morse, G. R. ; Fulton, S. A. ; (McKenzie, J. B., B. A. ; Phinney, W. S.) ; (Connolly, Wm. Edward ; MacKay, Wm.) ; Les-el, J. Fred. ; Anthony, T. B. ; Cameron, C. P. P. ; (Blackadar, R. L. ; Hebb, A. M.) ; O'Brien, M. A., B. A. ; Philp, Miss M. A. L. ; (Borden, L. E. ; Harris, W. C.) ; Corston, J. R., B. A. ; Cock, J. L. ; (Murphy, Geo. H. ; Watson, D. T. C.) ; Campbell, D. G. J. ; McKinnon, W. F., B. A. ; Nicholson, S. ; Wallace, P. J. ; McGarry, P. A.

*Supplementary*—Morse, C. D. ; Dickson, C. H.

## HISTOLOGY.

(Fulton, S. A. ; Lessel, J. Fred.) ; Hebb, A. M. ; McKay, Wm. ; Morse, G. R. ; Connolly, Wm. Edward ; Corston, J. R., B. A. ; (Borden, L. E. ; Murphy, Geo. H.) ; Cock, J. L. ; Cameron, C. P. P. ; McKenzie, J. B., B. A. ; O'Brien, M. A., B. A. ; Campbell, D. G. J. ; McGarry, P. A. ; (Anthony, T. B. ; Nicholson, S. ; Phinney, W. S.) ; (Blackadar, R. L. ; Norwood, E. B. ; Watson, D. T. C.)

*Supplementary*—Dickson, C. H. ; Densmore, L. D.

## JUNIOR CHEMISTRY.

(Cameron, C. P. P. ; Connolly, Wm. Edward ; Lessel, J. Fred. ; Murphy, Geo. H.) ; Fulton, S. A. ; Blackadar, R. L. ; Philp, Miss M. A. L. ; McKay, Wm. ; Anthony, T. B. ; McGarry, P. A. ; Watson, D. T. C.

*Special Practical*—Morse, G. R. ; Phinney, W. S. ; Cock, J. L.

*Supplementary*—Densmore, L. D.

## ELEMENTARY BIOLOGY.

Connolly, Wm. Edward ; Fulton, S. A. ; Morse, G. R. ; Philp, Miss M. A. L. ; Blackadar, R. L. ; Phinney, W. S. ; (Campbell, D. G. J. ; Corston, J. R., B. A.) ; Cameron, C. P. P. ; Anthony, T. B. ; Cock, J. L. ; McKinnon, W. F., B. A. ; Borden, L. E. ; McKay, Wm. ; McGarry, P. A. ; Watson, D. T. C. ; Lessel, J. Fred. ; Murphy, Geo. H. ; Harris, W. C.

*Special. Zoology only*—Hebb, A. M.

## SENIOR ANATOMY.

DeOlloqui, Miss M. J. ; Cochran, W. N. ; Thomas, Lewis ; Crosby, L. M. ; Roach, E. B. ; Cox, R. B. ; O'Donnell, Miss F. M. ; Robbins, W. H. ; (Faulkner, E. Ross, B. A. ; Wardrope, M. J.) ; Rodgerson, J. A. C., B. A. ; Dickson, C. H. ; Cordiner, C. A. ; Reynolds, James.

## PHYSIOLOGY.

Robbins, W. H. ; DeOlloqui, Miss M. J. ; (Roach, E. B. ; Thomas, Lewis) ; (O'Brien, M. A., *B. A.* ; Cochran, W. N.) ; Cox, R. B. ; Wardrope M. J. ; Crosby, L. M. ; Dickson, C. H. ; O'Donnell, Miss F. M. ; (Morse, C. D. ; Zwicker, F. G.) ; Cordiner, C. A. ; Faulkner, E. Ross, *B. A.*

*Special*—Reynolds, James.

*Supplementary*—Giovanetti, L. J. ; Braine, L. B. W.

## SENIOR CHEMISTRY, (INCLUDING PRACTICAL).

(Faulkner, E. Ross *B. A.* ; Wardrope, M. J.) ; Robbins, W. H. ; (Roach, E. B. ; Thomas, Lewis) ; DeOlloqui, Miss M. J. ; Cochran, W. N. ; Borden, L. E. ; Crosby, L. M. ; Dickson, C. H. ; Cox, R. B. ; Densmore L. D. ; O'Donnell Miss F. M. ; Archibald, C. C.

*Special Practical*—O'Brien, C. W.

*Special (without Practical)*—Reynolds, Jas.

## MATERIA MEDICA AND THERAPEUTICS.

Dymond, W. A. ; Ernst, Miss V. S. ; Taylor, F. W. ; Forbes, A. E. ; Reynolds, James. Giovanetti, L. J. ; Pratt, Nelson ; (Salter, O. R. ; Pennington, J. W.) ; (Braine, L. B. W. ; Rodgerson, J. A. C., *B. A.*) ; Braine, Miss W. B. ; Reynolds, W. P.

## MEDICAL JURISPRUDENCE, HYGIENE AND INSANITY.

Ernst, Miss V. S. ; Pratt, Nelson ; Dymond, W. A. ; Reynolds, W. P. ; Rodgerson, J. A. C., *B. A.* ; Braine, L. B. W. ; Pennington, J. W. ; (Forbes, A. E. ; Reynolds, James) ; (Salter, O. R. ; Taylor, F. W.) ; (Braine, Miss W. B. ; Giovanetti, L. J.)

## PATHOLOGY AND BACTERIOLOGY.

Taylor F. W. ; Braine, Miss W. B. ; Dymond, W. A. ; Salter, O. R. ; Forbes, A. E. ; (Pratt, Nelson ; Reynolds, W. P.) ; Reynolds, James ; Ernst, Miss V. S. ; Pennington, J. W. ; Giovanetti, L. J. ; Braine, L. B. W. ; Rodgerson, J. A. C., *B. A.*

## SURGERY.

MacKay, J. St. C. ; McMillan, C. E., *B. A.* ; Farrell, E. D. ; Randall, Miss M. L. ; Goodwin, W. V. ; (Munroe, J. G. ; Shaw, S. E.) ; Atkinson, E. P. ; Farrell, L. P. ; McLean, M. T. ; Almon, W. Bruce.

## CLINICAL SURGERY.

Atkinson, E. P. ; Shaw, S. E. ; Almon, W. Bruce ; Goodwin, W. V. ; Munroe, J. G. ; McMillan, C. E., *B. A.* ; (Farrell, E. D. ; MacKay, J. St. C. ; Randall, Miss M. L.) ; McLean, M. T. ; Farrell, L. P.

## MEDICINE.

(Almon, W. Bruce ; Munroe, J. G.) ; MacKay, J. St. C. ; Goodwin, W. V. ; Shaw, S. E. ; Farrell, L. P. ; McMillan, C. E., *B. A.* ; McLean, M. T. ; Atkinson, E. P. ; Farrell, E. D. ; Randall, Miss M. L.

## CLINICAL MEDICINE.

Atkinson, E. P. ; Farrell, E. D. ; Randall, Miss M. L. ; McMillan, C. E., *B. A.* ; (Almon, W. Bruce ; Goodwin, W. V. ; Munroe, J. G.) ; MacKay, J. St. C. ; McLean, M. T. ; Farrell, L. P. ; Shaw, S. E.

## OBSTETRICS AND DISEASES OF WOMEN AND CHILDREN.

(McMillan, C. E., *B. A.* ; Randall, Miss M. L.) ; Almon, W. Bruce ; (Atkinson, E. P. ; Munroe, J. G.) ; MacLean, M. T. ; MacKay, J. St. C. ; Shaw, S. E. ; Farrell, E. D. ; Goodwin, W. V. ; Farrell, L. P.

*Supplementary*—Dickey, H. L. ; McDonald, E. M.

## GRADUATES.

## DOCTORS OF LAWS.

(Honoris Causa.)

- |   |  |
|---|--|
| 1896 a Bailey, Loring Woart, <i>M. A.</i> ,<br><i>Ph. D., F. R. S. C.</i> | 1892 d MacKay, Alex. Howard, <i>B. A.</i> ,<br><i>B. Sc., F. R. S. C.</i>              |
| 1892 b Gilpin, Edwin, Jr., <i>A. M., F.</i><br><i>R. S. C.</i>            | 1896 † Patterson, Rev. George, <i>D. D.</i> ,<br><i>F. R. S. C.</i>                    |
| 1892 c Grant, Very Rev. Geo. Munro,<br><i>D. D., F. R. S. C.</i>          | 1893 e Sedgewick, Hon. Robert.   |
| 1896 † Kingsford, Wm., <i>C. E., LL.D.</i> ,<br><i>F. R. S. C.</i>        | 1892 † Thompson, Hon. Sir John<br>Sparrow David, <i>K. C., M. G.</i> ,<br><i>P. C.</i> |

## MASTERS OF ARTS.

- |  |  |
|--|--|
| 1876 Allan, John Munn.   | 1895 Macdonald, Peter McLaren.   |
| 1872 Annand, Joseph, <i>D. D.</i>                                    | 1874 MacGregor, Prof James Gordon,<br><i>D. Sc.</i>  |
| 1897 Archibald, Alexander David.                                     | 1897 McIntosh, Charles Daniel.   |
| 1898 Archibald, Herb. Thompson.                                      | 1896 Macintosh, John, <i>B. D.</i>   |
| 1894 Archibald, Sara Elizabeth.                                      | 1895 Mackay, Angus William.  |
| 1878 Archibald, William P., <i>B. D.</i>                             | 1898 McKay, Ira.   |
| 1898 Austen, Minna May.  | 1895 Mackay, John Daniel, <i>B. D.</i>   |
| 1899 Baird, Frank, <i>B. A. (N. B.)</i>                              | 1897 McKay, Mary Alexandra.  |
| 1892 Baxter, Agnes Sime, <i>Ph. D.</i>                               | 1899 McKay, Roderick Wm., <i>M. A.</i><br>(Princeton), <i>ad eundem</i><br><i>gradum.</i>      |
| 1872 † Bayne, Prof. Herbert A., <i>Ph.</i><br><i>D., F. R. S. C.</i> | 1898 McKay, Thomas Calvin.   |
| 1896 Bent, Matilda Agatha.   | 1895 McKenzie, Ellen Margaret.   |
| 1898 Bigelow, Harry Veeder.  | 1875 McKenzie, Hugh.   |
| 1899 Burchell, Charles Jost.   | 1872 † McKenzie, Prof. John James,<br><i>Ph. D.</i>  |
| 1890 Burkitt, Robert James.  | 1897 McLean, Laughlin Hugh, <i>B. A.</i>   |
| 1897 Butler, George Killam.  | 1887 McLennan, John William, <i>B. D.</i>  |
| 1898 Cameron, Ira William.   | 1878 † McLeod, Alexander, <i>Ph. D.</i>  |
| 1871 Cameron, John J.  | 1880 † McLeod, John Wilson.  |
| 1895 Campbell, William Robert.                                       | 1897 McNair, William Wallace.  |
| 1871 Carr, Arthur F.   | 1870 McNaughton, Samuel.   |
| 1869 Chase, Joseph Henry.  | 1898 McPhee, Margaret Janet.   |
| 1880 † Creelman, David F.  | 1899 Millar, Jas. Ross.  |
| 1891 Crowell, Edwin.   | 1896 Milligan, George Serton.  |
| 1896 Currier, Frank Allison.   | 1894 Morton, Silvanus Archibald.   |
| 1883 Dickie, Alfred.   | 1899 Murdoch, Wm. Clarence, <i>M. A.</i><br>(Princeton), <i>ad eundem</i><br><i>gradum.</i>    |
| 1888 Fitzpatrick, Hiram Henry<br>Kirkwood, <i>LL. B.</i>             | 1893 Murray, Prof. Walter Charles,<br><i>M. A.</i> (Edin.), <i>ad eundem</i><br><i>gradum.</i> |
| 1897 Forbes, Edgar William.  | 1881 Newcomb, Edmund Leslie,<br><i>LL. B.</i>  |
| 1872 † Forrest, James.   | 1898 Nicholson, John Wm. Angus.  |
| 1897 Foster, Arthur Hayward, <i>B. D.</i>                            | 1887 Patterson, George Geddie.   |
| 1897 Frame, David Annand.  | 1896 † Robins, Edwin Proctor.  |
| 1891 Grant, David Kenzie.  | 1895 Ross, Hedley Duncan Vickers.  |
| 1898 Grant, George Alexander.  | 1896 Ross, Jennie Wright.  |
| 1895 Grant, Melville Finlay.   | 1896 Ross, Mary Sophia.  |
| 1895 † Grant, Robert J., <i>B. D.</i>                                | 1875 Scott, Ephraim.   |
| 1894 Harrington, Emily Bevan.  | 1871 Smith, David H.   |
| 1898 Hebb, Bertha Boyd.  | 1890 † Smith, James Festus, <i>B. D.</i>   |
| 1898 Hepburn, William Murray.  | 1897 Smith, William Henry, <i>B. D.</i>  |
| 1878 Herdman, James Chalmers, <i>B. D.</i>                           | 1896 Strathie, Ralph Grant, <i>B. D.</i>   |
| 1881 Herdman, William C.   | 1898 Sutherland, George Adam.  |
| 1895 Jamieson Harriet Jane.  | 1898 Trefry, James Hartley.  |
| 1898 Jordan, Edward Elliot.  | 1878 Trueman, Arthur I., <i>D. C. L.</i>   |
| 1878 Jordan, Louis Henry, <i>B. D.</i>                               | 1898 Trueman, Margaret Florence.   |
| 1888 Langille, Robert McDonald,<br><i>LL. B.</i>                     | 1899 Watt, Arthur Wm.  |
| 1894 Logan, John Daniel, <i>M. A.</i> ,<br><i>Ph. D.</i>             |  |
| 1880 Logan, Richmond.  |  |
| 1894 McArthur, Samuel Johnson.                                       |  |
| 1895 Macdonald, Charles deWolfe.                                     |  |
| 1870 † McDonald, John H.   |  |

† Deceased.

a Prof of Nat Hist. N. N. Univ.

b Dep.-Commr. of Mines, N. S.

c Prin. Queen's Univ., Kingston.

d Supt. of Education, N. S.

e Judge of Supreme Court of Canada.



MASTER OF LETTERS.

1893 Muir, Ethel, *Ph. D.*

MASTER OF SCIENCE.

1898 Archibald, Ebenezer Henry.

BACHELORS OF ARTS.

The numbers affixed in some cases to the names have the following signification :—

- 1—Graduated with High Honours in Classics.
- 2—Graduated with Honours in Classics.
- 3—Graduated with High Honours in Latin and English.
- 4—Graduated with Honours in Latin and English.
- 5—Graduated with High Honours in Greek and English.
- 6—Graduated with Honours in Greek and English.
- 7—Graduated with High Honours in English and German.
- 8—Graduated with Honours in English and German.
- 9—Graduated with High Honours in English and English History.
- 10—Graduated with Honours in English and English History.
- 11—Graduated with High Honours in Philosophy.
- 12—Graduated with Honours in Philosophy.
- 13—Graduated with High Honours in Pure and Applied Mathematics.
- 14—Graduated with Honours in Pure and Applied Mathematics.
- 15—Graduated with High Honours in Mathematics and Physics.
- 16—Graduated with Honours in Mathematics and Physics.
- 17—Graduated with High Honours in Experimental Physics and Chemistry.
- 18—Graduated with Honours in Experimental Physics and Chemistry.
- 19—Graduated with High Honours in Chemistry and Chemical Physics.
- 20—Graduated with Honours in Chemistry and Chemical Physics.
- 21—Graduated with Great Distinction.
- 22—Graduated with Distinction.
- 23—Governor-General's Gold Medal.
- 24—Governor-General's Silver Medal.
- 25—Sir William Young's Gold Medal.
- 26—DeMille Gold Medal.
- 27—Mackenzie Gold Medal.
- 28—University Medal.
- 29—1851 Exhibition Science Research Scholarship.
- 30—Avery Prize.

NOTE.—Previous to 1893-94 the terms First Rank Honours and Second Rank Honours were used instead of High Honours and Honours respectively, and the terms First Rank General Distinction and Second Rank General Distinction instead of Great Distinction and Distinction respectively.

- 1884 *a* Adams, Hy, Stanislaus, 14, 24.  
 1895 Aitken, Rob., Traven Davison.  
 1885 Aiton, William, 1, 23.  
 1873 Allan, John Munn.  
 1889 Allison, Edmund Powell.  
 1886 Allison, Matthew Gay, 30.  
 1899 Anderson, Chas. Willoughby.  
 1899 Anderson, Jas. Hy. Addison, 12.  
 1893 Annand, Edward Ernest.  
 1869 *b* Annand, Joseph, *D. D.*  
 1895 Archibald, Adams Douglas.  
 1895 Archibald, Alexander David.  
 1899 Archibald, Eugenie, 22.  
 1877 *†* Archibald, Fred. Wm., *M. A.*,  
*B. D., Ph. D.*  
 1897 Archibald, Herb. Thompson, 1.  
 1892 Archibald, Sara Eliz., 21, 30  
 1872 Archibald, Wm. P., *B. D.*  
 1897 Austen, Minna May, 21, 30  
 1899 Baird, Jno. Wm. Adams, 13, 25.  
 1896 Baker, Elma.  
 1892 Bakin, Frank Wright Mudge,  
 14  
 1899 Barnes, James, 14.  
 1893 Barnstead, Arthur Stanley.  
 1891 *c* Baxter, Agnes Sime, *Ph. D.*,  
 13, 25  
 1869 *d* Bayne, Herbert And., *Ph. D.*,  
*F. R. S. C.*  
 1871 Bayne, Ernest Samuel.  
 1876 Bell, Francis Hugh, 2, 23.  
 1883 Bell, John Albert, 2, 23.  
 1895 Bent, Matilda Agatha.  
 1894 Bigelow, Harry Veeder 22, 30.  
 1898 Blanchard, Aubrey Blanchard,  
 12  
 1880 Blanchard, Charles Waddell.  
 1899 Borden, Lorriss Elijah.  
 1894 *e* Brehaut, Ernest, *M. A.*, 1, 28.  
 1891 *f* Brehaut, Jas. Wm., *B. A.*, 1.  
 1898 Brodie, William Stuart  
 1889 Brown, Ernest Nicholson, 12.  
 1872 Bruce, William T., *M. D.*  
 1873 Bryden, Charles W.  
 1887 Buchanan, James Jost, 12.  
 1898 Buchanan, Murdoch.  
 1897 Burchell, Charles Jost.  
 1867 Burgess, Joshua C.  
 1889 Burkitt, Robt. Jas., *B. A.*, 14.  
 1899 Burris, Grace Dean  
 1896 *g* Butler, George Killam.  
 1886 *h* Cahan, Charles Hazlitt,  
*Ex-M. P. P.*  
 1878 Cairns, John Andrew, *M. A.*  
 1886 Calder, John, *B. D.*  
 1887 Calkin, Wm. Somerville, 30.  
 1879 Cameron, Chas. Symonds, 10.  
 1897 Cameron, Ira William, 13, 25.  
 1878 Cameron, John Hugh, 24.  
 1867 Cameron, John J.  
 1873 Cameron, William, *Ex-M. P. P.*  
 1898 Campbell, Alvin Henry.  
 1886 Campbell, Alexander John.  
 1890 *i* Campbell, Donald Frank, *M. A.*,  
*Ph. D.*  
 1893 Campbell, Duncan McDonald.  
 1882 *j* Campbell, Geo. Murray, 14, 25.  
 1899 Campbell, Jessie Brown.  
 1892 Campbell, Robert Sedzewick.  
 1887 *k* Campbell, William Robert.  
 1872 Carmichael, James Matheson.  
 1868 Carr, Arthur F.  
 1882 Carson, George Stephen, 30.  
 1879 Chambers, Frederick Bulmer.  
 1877 Chambers, Robert Ernest.  
 1890 Chapman, Adolphus Eugene.  
 1866 Chase, Joseph Henry.  
 1899 Chase, Marg. Hawthorne.  
 1868 *†* Christie, Thomas M.  
 1896 Church, Nina Elizabeth, 3.  
 1888 Clarke, Daniel McDonald.  
 1897 Clarke, Harold Marston.  
 1897 Cock, Daniel George.  
 1886 *l* Coffin, Fulton Johnson, *M. A.*,  
*Ph. D.*, 10.  
 1885 Coffin, Frank Stewart.  
 1897 Coffin, Robert Lewis.  
 1887 *m* Coffin, Victor Edwin, *Ph. D.*,  
 9, 26.  
 1890 *n* Cogswell, Geo. Alfred, *Ph. D.*  
 1898 Colquhoun, John George.  
 1887 Coops, Frank Harvey, *M. D.*,  
*C. M.*, 2  
 1898 Corston, James Robert.  
 1881 Costley, Alfred.  
 1891 Cox, George Hastings.  
 1894 Crawford, James Andrew.  
 1873 *†* Creelman, David F.  
 1881 *o* Creelman, Hugh Graham,  
*B. Sc.*, 14, 23.  
 1868 Creighton, James G. A.  
 1880 Creighton, Henry Spurr.  
 1887 *p* Creighton, James Edwin,  
*Ph. D.*, 11, 24.  
 1898 Crowe, Henry Stanley, 21.  
 1880 Crowell, Edwin, 10, 23.  
 1872 Cruikshank, William, *B. D.*  
 1899 Cumming, Alison, 22  
 1896 Cumming, Bessie Arnot, 11.  
 1897 Cumming, Melville.  
 1896 Cunnings, Alfred Graham.  
 1897 Cummings, Edward.  
 1896 Currie, William Douglas.  
 1895 Currier, Frank Allison.  
 1897 Dakin, William.  
 1882 Davidson, Johnson Fulton.  
 1896 Davidson, Lilla Augusta.  
 1899 Davis, Roy, 9.  
 1889 Davison, James MacGregor.  
 1897 Denoon, Alexander Hugh.  
 1898 DeWolfe, Margaret Woodill.  
 1879 Dickie, Alfred.  
 1896 Dickie, Gordon, 22.  
 1883 Dickie, Henry.  
 1884 Dill, Edmund Munro, *B. D.*  
 1893 Douglas, Ernest Augustus.

*†* Deceased.

*a* Prof. of Math., St. Boniface College, Winnipeg.

*b* Missionary in New Hebrides.

*c* Sometime Fellow, Cornell.

*d* Sometime Prof. of Chem., Royal Mil. College, Kingston.

*e* Sometime Scholar, Harvard; Prof. of Latin, Colorado University.

*f* Supt. of Schools, North Attleboro, Mass.

*g* Principal Guysboro Academy, N.S.

*h* Lecturer on Torts, Dalhousie Coll.

*i* Sometime Fellow, and now Instr. in Mathem. (Harv.)

*j* Prof. of Histology Hfx. Med. Coll. k Prin of Truro Academy.

*l* Sometime Fellow, and Instr. in Comp. Religion (Chicago).

*m* Sometime Fellow (Cornell); Prof. of History (Wiscon-in Univ.)

*n* Sometime Scholar (Cornell).

*o* Sometime Gilchrist Scholar, Vans Dunlop Scholar (Edin), and Instr. in Exper. Phys. (Purdue).

*p* Sometime Fellow, now Prof. of Log and Metaphys (Cornell) and Co-Editor *Philos. Review.*

1896	Douglas, John Robert.	1874	Herdman, James Chalmers, <i>B. D.</i> , 2.
1874	Doull, Walter Scott.	1874	Herdman, William C.
1895	Duchemin, Henry Pope. 1, 28.	1897	Hetherington, Eva Florence.
1873	Duff, Kenneth.	1896	Hill, Allan Massey
1879	† Emmerson, Robert Richard James. 30.	1892 <i>g</i>	Hill, Albert Ross, <i>Ph. D.</i> , 11, 24.
1897	Faulkner, Ebenezer Ross.	1894	Hobrecker, Clara Charlotte, 8.
1893	Finlayson, Duncan. <i>M. P. P.</i>	1898	Hockin, John George, 21.
1897	Fisher, Arthur Franklyn.	1893	Howatt, Cornelius Alfred.
1899	Fisher, Franklin.	1891 <i>h</i>	Hugh, David Douglas, <i>B. A.</i> <i>M. A.</i> , 11, 24.
1890	Fisher, James Mitchell.	1873	Hunter, John.
1885	Fitzpatrick, Hiram Henry Kirkwood, <i>LL. B.</i> , 12.	1896	Irving, Thomas
1875	Fitzpatrick, James.	1894	Jamieson, Harriet Jane
1887	Forbes, Antoinette.	1894	Johnson, Ebenezer William.
1893	Forbes, Edgar William.	1892	Johnson, George Fulton, <i>B. A.</i> , <i>B. D.</i> , 11.
1899	Forbes, George Ernest.	1888	† Johnson, George Millar.
1897	Forbes, William.	1892	Johnson, James Bayne.
1868	† Forrest, James.	1884	Jones, Frank
1895	Foster, Arthur Hayward, <i>B. D.</i>	1891	Jordan, Elijah John, 12.
1895	Frame, David Annand.	1895 <i>i</i>	Jordan, Edward Elliot, 13, 25.
1889	<i>a</i> Fraser, Alexander, 11.	1875	Jordan, Louis Hy., <i>B. D.</i> , 23.
1895	Fraser, Alex. Lewis, <i>B. D.</i>	1892	Keefer, Ralph Tupper.
1887	Fraser, Donald.	1899	Keith, Donald.
1895	Fraser, Daniel Alexander, 22.	1898	Kennedy, Elizabeth Erota.
1872	<i>b</i> Fraser, Duncan C., <i>M. P.</i>	1891	Kennedy, James Simon.
1874	Fraser, Daniel Stiles.	1880	Kinsman, Frederick Small- wood, <i>M. D.</i>
1894	† Fraser, Hugh McLeod.	1882	Knowles, James Harris, <i>M. D.</i>
1889	Fraser, John Keir Geddie.	1890	Laird, Alexander.
1883	Fraser, William Matheson. 24.	1889 <i>j</i>	Laird, Arthur Gordon, <i>Ph. D.</i> , 1, 23.
1882	<i>c</i> Fraser, Wm Ritchie, <i>Ph. D.</i>	1877	Laird, George Alexander.
1889	Frazer, Victor Gladstone.	1882	Landells, Robert.
1899	Fulton, Clarence.	1885	Langille, Robert McDonald, <i>LL. B.</i> , 12, 24.
1890	† Fulton, Eben.	1895	Lawson, Thomas, 14
1889	<i>d</i> Fulton, Edwd, <i>M. A. Ph. D.</i> , 9, 26	1895 <i>k</i>	Layton, James Smith.
1876	Fulton, Geo Herb., <i>M. D. C. M.</i>	1886	Lewis, Abner Wm., <i>B. D.</i>
1888	Fulton, Willard Hill	1898	Lewis, Bessie Blanche.
1885	Gammell, Isaac, 9, 26.	1890	<i>l</i> Lewis, Ernest William, 22.
1878	George, John Lyall 23.	1870	<i>m</i> Lindsay, Andrew Walker Herdman, <i>M. B.</i> , <i>C. M.</i>
1899	Glover, Benjamin.	1899	Lindsay, Chas Fowler, 19.
1891	Glover, Emily Maud.	1867	Lippincott, Aubrey, <i>M. D.</i>
1892	Graham, Robert Henry.	1885	Locke, Robert Todd.
1898	Grant, Clarence Fraser. 2.	1898	Logan, Bessie Margaret.
1888	Grant, David Kenzie.	1893	<i>n</i> Logan, John Daniel, <i>M. A.</i> , <i>Ph. D.</i> , 11.
1896	Grant, George Alexander.	1894	<i>o</i> Logan, Jotham Wilbert, 1, 28.
1894	Grant, Milton Daniel.	1873	Logan, Melville D.
1894	Grant, Melville Finlay.	1877	Logan, Richmond.
1897	Grant, Mary Sibella	1893	McArthur, Samuel Johnson, <i>B. D.</i>
1894	† Grant, Robert J. <i>B. D.</i>	1891	McCurdy, James Farquhar.
1877	† Grant, William Roderick.	1877	McCurdy, Stanley Tupper.
1892	Gratz, Humphrey Gilbert.	1892	Macdonald, Alvin Fraser.
1894	Gray, William Smith.	1892	Macdonald, Alex. John.
1891	Grierson, John Arthur.	1895	Macdonald, Blanche, 14.
1890	<i>e</i> Grierson, Robert.	1873	McDonald, Charles de Wolfe.
1872	Gunn, Adam.	1898	Macdonald, Daniel John.
1877	Hamilton, Howard Herbert.	1884	McDonald, Donald, <i>B. D.</i>
1892	<i>f</i> Harrington, Emily Bevan, 9.	1893	McDonald, Ida Grace.
1889	Harvey, McLeod		
1897	Hattie, Robert McConnell.		
1899	Hebb, Arthur Morrison.		
1894	Hebb, Bertha Boyd.		
1889	Henry, Joseph Kaye, 30.		
1895	Hepburn, Wm. Murray, 21.		
1877	Herdman, Andrew Walker.		

† Deceased

*a* Sometime Scholar & Fellow (Clark).

*b* Sometime Member N. S. Govt.

*c* Sometime Scholar and Fellow (J. H. U.); Prof of Ancient Languages (Cosmopol. Univ.)

*d* Sometime Scholar (Harvard); Prof. of English (Wells Coll.)

*e* Medical Missionary, Korea

*f* Sometime Scholar, (Bryn Mawr)

*g* Sometime Scholar and Fellow (Cornell); Prof. of Philosophy, (Nebraska).

*h* Sometime Fellow (Cornell); Prof.

of Psychology, State Normal Sch. (Colorado).

*i* Instructor in Mathematics (Prince of Wales Coll.)

*j* Sometime Fellow (Cornell); Prof. of Greek (Wisconsin)

*k* Prin. of Annapolis Academy, N. S.

*l* Prin. of Restigouche Gram. Sch. *m* Prof of Anatomy (Halifax Med. Coll.)

*n* Sometime Scholar (Harv.) and Interim Prof. of Philosophy (Ursinus Coll.)

*o* Lecturer on Classics, Dal. Coll.

1883	McDonald, James Alex., 14, 24.	1897	Maclean, Lauchlin A.
1867 †	McDonald, John H.	1897	McLean, Stewart Clifford, 13.
1894	Macdonald, Peter McLaren.	1899	McLellan, Leander Blair.
1889	Macdonald, Robert James.	1883	McLennan, John Wm. <i>B. D.</i> , 30
1888	Macdonald, William	1888	McLennan, Samuel John.
1881	McDonald, Wallace Mortimer.	1899	McLeod, Albert Morrison.
1876 †	McDonnell, Isaac Murray.	1875 †	McLeod, Alexander W., <i>Ph. D.</i>
1891	MacGlashen, John Arch., <i>B. D.</i>	1888 †	McLeod, Ambrose Watts, <i>M. A.</i> , 12.
1874	McGregor, Daniel.	1874	McLeod, Donald.
1871 <i>a</i>	MacGregor, James Gordon, <i>D Sc., F. R. S. S. E. &amp; C.</i>	1830 <i>j</i>	MacLeod, Frederick Joseph, <i>M. A.</i> , 5, 23.
1896	MacGregor, Robt. Malcolm, 21, 30.	1888	MacLeod, George, 9, 26.
1883	MacGregor, Thomas Spear, 14.	1885	McLeod, Jno. Matheson, <i>M. A.</i>
1899	McIntosh, Charles Campbell.	1884	McLeod, John Peter, 1, 23.
1895	McIntosh, Charles Daniel.	1876 †	McLeod, John Wilson.
1892	McIntosh, Don. Sutherland, 22.	1887	McLeod, Malcolm James, 13.
1894	Macintosh, John, <i>B. D.</i> , 11.	1891	McMillan, Charles Edward.
1892	Macintosh, John Alex., 22.	1891	McMillan, Frederick Alex.
1873 <i>b</i>	MacKay, Alexander Howard, <i>B. Sc., F. R. S. C.</i> , 14.	1875	McMillan, George, 24.
1897	Mackay, Alexander Leonard.	1895	McNairn, William Wallace.
1894	Mackay, Angus William, 11.	1891	McNaughton, Eliz. Sheffield.
1899	Mackay, Annie.	1867	McNaughton, Samuel
1898	McKay, Catherine Wetmore.	1887	McNeill, Charlotte Mary, 9.
1893	Mackay, Donald McGregor <i>M. D.</i>	1896 <i>k</i>	Macneill, Murray, 13, 25.
1890	McKay, Duncan Oliver, 18	1892	McNeill, Roderick
1886 <i>c</i>	Mackay, Ebenezer, <i>Ph. D.</i> , 17, 27.	1897	McOdrum, Donald.
1888	Mackay, Henry Martyn, <i>B. A.</i> <i>Sc.</i> , 14.	1894	McPhee, Margaret Janet.
1897 <i>d</i>	McKay, Ira, 11.	1893	Macrae, Arch. Osw., <i>Ph. D.</i> , 12.
1894	Mackay, John Daniel, <i>B. D.</i>	1886	Macrae, Alexander Wm., <i>M. A.</i>
1868	McKay, Kenneth.	1898 <i>l</i>	MacRae, Donald Alex., 1, 28.
1896	McKay, Mary Alexandra.	1896 <i>m</i>	McRae, Duncan Murdoch.
1892	Mackay, Murdoch Sutherland	1891 <i>n</i>	Magee, Wm. Henry, <i>Ph. D.</i>
1886	Mackay, Neil Franklin, 17, 24.	1896	Mahon, Harry Edmund.
1893	McKay, Thomas Calvin, 22.	1893	Martin, Albert John Daniel.
1896	McKay, William Roderick.	1885	Martin, Kenneth John, 14.
1873	McKeen, James A.	1877	Mason, William Alexander.
1885 <i>e</i>	MacKenzie, Arthur Stanley, <i>Ph. D.</i> , 14, 25.	1888	Matheson, John Alex., <i>B. D.</i>
1894	McKenzie, Ellen Margaret.	1897	Maxwell, George Herbert.
1899	Mackenzie, Geo. Norris, 11, 28.	1897	Maxwell, Ruth Ellen.
1899	McKenzie, George Wm., 14.	1882	Mellish, Humphrey.
1872	McKenzie, Hugh.	1899	Messenger, Ralph James, 14.
1878	McKenzie, James.	1869	Millar, Ebenezer D.
1899	Mackenzie, Janie Lucinda.	1890	Millar, George.
1898	McKenzie, John Bradshaw.	1897	Millar, James Ross.
1869 †	MacKenzie, John Jas., <i>Ph. D.</i>	1894	Milligan, George Seeton.
1882	McKenzie, James Walter.	1899	Moody, Georgina Maud.
1888 <i>g</i> †	McKenzie, William John	1891	Moore, Clarence Leander, 22.
1890	MacKinnon, John Archibald.	1891	Morash, Albert Victor.
1890	MacKintosh, David Charles.	1895	Morris, Clarence H.
1898	Mackintosh, Finlay H.	1888 <i>o</i>	Morrison, Alex. McGeachy, 13, 25.
1877 <i>h</i>	McKittrick, Burgess, 24.	1898	Morton, James Roland.
1893	McLean, Charles Archibald.	1876	Morton, Joseph Smith, <i>M. D.</i>
1879	McLean, Isaac Matheson, <i>M. D.</i> , 2.	1895	Morton, Rupert Freeman.
1876	McLean, James Alexander.	1886 <i>p</i>	Morton, Silvanus Arch., 13, 25.
1891	Maclean, John Brown, <i>B. D.</i>	1891	Munro, Christopher.
		1878	Munro, George William.
		1899	Munro, Henry Fraser.
		1876	Munro, John.
		1896	Murdoch, William Clarence.
		1899	Murray, Adam Henry Stewart, 13.

†Deceased.

*a* Sometime Gilchrist Scholar; Prof. of Physics, (Dal. Coll.)*b* Supt. of Education, N. S.*c* Sometime Fellow (J. H. U.); Prof. of Chemistry, (Dal. Coll.)*d* Sometime Scholar (Cornell).*e* Sometime Fellow (J. H. U.); Prof. of Physics, (Bryn Mawr.)*f* Sometime Prof. of Physics, (Dal. Coll.)*g* Sometime Missionary, Korea.*h* Prin. of Lunenburg Acad.*i* Sometime Scholar (Harv.)*j* Sometime Scholar (Harv.), Sometime Prof. of English (Nebraska).*k* Sometime Fellow (Cornell); Instructor in Math., Anglo-Saxon School, Paris.*l* Sometime Scholar and Fellow (Cornell).*m* Missionary, Korea.*n* Sometime Fellow, and Assistant in Chemistry (Cornell); Prin. High School, Parrisboro.*o* Sometime Instructor in Physics, (Chicago Univ.)*p* Lecturer on Descriptive Geometry, (Dal. Coll.)

- 1884 *a* Murray, Daniel Alexander, *Ph. D.*, 14, 25.  
 1896 Murray, John Carey.  
 1877 † Murray, John Sprott.  
 1897 Murray, John Tucker, 9.  
 1893 Murray, Lucy Christine, 11.  
 1898 Murray, Norman Grant.  
 1894 *b* Murray, Robt. Harper, *LL. M.*  
 1896 Murray, Wilbur.  
 1878 *c* Newcomb, Edmund Leslie, *LL. B.*  
 1885 Newcombe, Margaret Florence, 10.  
 1886 Nicholson, Alfred, *M. A.*, 14.  
 1897 Nicholson, Jno. Wm. Angus, 9.  
 1895 † Noble, John Duncan.  
 1896 Oakes, Ingram.  
 1899 O'Brien, Clarence Wilbert.  
 1898 O'Brien, Milton Addison.  
 1899 O'Brien, Osmond Franklin.  
 1891 † Oliver, Allene Cushing Litchfield, 22.  
 1899 Outhit, Wm. Edward.  
 1874 Oxley, Jas. McDonald, *LL. B.*, 12.  
 1889 Paton, Vincent John.  
 1882 Patterson, George Geddie.  
 1877 † Pitblado, Colin, *M. D., C. M.*  
 1895 Polley, James Frederick.  
 1872 † Pollok, Alexander W.  
 1893 Putnam, Harold.  
 1889 † Putnam, Homer.  
 1894 Putnam, James Fleming.  
 1887 Putnam, William Graham, *M. B., C. M.*  
 1899 Ramsay, James Archibald.  
 1898 Rankine, James Miller.  
 1890 Rattee, Edward Joseph.  
 1898 Read, Hibbert Robert.  
 1897 Reid, David McKeen.  
 1899 Rice, Grace Eliz. Bernard.  
 1896 Robb, Alexander Francis.  
 1892 *d* Robertson, Samuel Napier.  
 1888 Robertson, Thos. Reginald, 30.  
 1895 † Robins, Edwin Proctor, 11, 28.  
 1886 *f* Robinson, Alexander, 1, 23.  
 1891 Robinson, Charles Budd, 21, 30.  
 1893 Robinson, David Magce.  
 1885 Robinson, George Edward, 14.  
 1873 Robinson, Joseph Miller.  
 1896 Rodgerson, James Alexander Cummings, 22.  
 1878 Rogers, Anderson.  
 1867 Ross, Alexander.  
 1897 Ross, Arthur.  
 1893 Ross, George Edw., *B. D.*, 22, 30.  
 1899 Ross, George Murray.  
 1893 Ross, Hedley Duncan Vickers, 5  
 1895 Ross, Jennie Wright, 21, 30.  
 1894 Ross, Mary Sophia, 13.  
 1899 Ross, Theodore, 21, 30.  
 1873 Ross, William.  
 1898 Ross, Wm. Alexander.  
 1896 Ross, William Daniel.  
 1899 Routledge, Arthur Weston.  
 1890 Rowlings, George Anderson Row, 14.  
 1871 Russell, Alexander G.  
 1890 Schurman, George Wellington, *LL. M.*, 21.  
 1872 Scott, Ephraim.  
 1870 *g* Scott, Hugh McDonald, *D. D.*  
 1877 † Scott, John McDougall.  
 1881 Sedgewick, James Adam, 30.  
 1877 *h* Sedgewick, Hon. Robert.  
 1898 Sedgewick, Wm. Harry, 21, 30.  
 1896 Sedgewick, Willam Middleton.  
 1887 Shaw, Henry Curtis, 10.  
 1887 *i* Shaw, Jas. Curtis, *M. A.*, 1, 23.  
 1897 Shaw, Percy James.  
 1866 † Shaw, Robert.  
 1897 Shinner, Harry Robert.  
 1894 *j* Simpson, Francis Stuart, *B. A.*, 9.  
 1868 Simpson, Isaac S.  
 1895 Smith, Alexander.  
 1867 Smith, David H.  
 1867 Smith, Edwin.  
 1890 Smith, Edmund Botterell, *M. A.*  
 1886 † Smith, James Festus, *B. D.*, 10.  
 1894 Smith, William Henry, *B. D.*  
 1889 Smithers, Allan.  
 1888 Soloan, David M., 10.  
 1881 Spencer, William Herbert.  
 1891 Stairs, Henry Bertram.  
 1808 Steeves, Blanchard Perley.  
 1887 Stewart, Alex. Forrester, 30.  
 1886 Stewart, Dugald, *M. D.*, 13.  
 1889 *k* Stewart, Frank Ingram.  
 1876 † Stewart, Jas. McGregor, 14, 24.  
 1882 Stewart, Thomas, *B. D.*  
 1896 Stirling, Alexander Dinwoodie.  
 1895 Stirling, John, 11, 28.  
 1875 *l* Stramberg, Hector M.  
 1895 Strathie, Ralph Grant, *B. D.*  
 1896 Sutherland, George Adams.  
 1869 Sutherland, John M.  
 1888 Sutherland, John Sanders, 9, 24.  
 1894 Tattie, George Philips.  
 1884 † Taylor, William Bell.  
 1885 Thompson, Alfred Whidden, *M. A.*, 10.  
 1891 Thompson, Fenwick Williams.  
 1897 Thompson, Margaret.  
 1893 Thompson, Willard Sutherland  
 1880 Thomson, Albert Edward, *M. B., C. M.*, 30.  
 1870 *m* Thorburn, Walter Millar.  
 1882 Torey, Edgar James.  
 1895 Trefry, James Hartley.  
 1872 *n* Trueman, Arthur I., *D. C. L.*  
 1882 *o* Trueman, James Starr, 2, 23.  
 1885 Tuffis, Wm. Mann, *M. A.*, 30.  
 1891 *p* Tupper, James Waddell, *Ph. D.*, 9, 23.  
 1884 Turner, Dawson Fyers Duckworth, 30.

† Deceased.

*a* Sometime Fellow (J. H. U.) and Asst. Prof. of Math. (Univ. of City of New York); Instructor in Mathematics, (Cornell).

*b* Lecturer on Law, (Univ. Maine).

*c* Dep. Min. of Justice

*d* Instructor in English, (Prince of Wales Coll.)

*e* Sometime Scholar and Fellow, (Cornell).

*f* Supt. of Education, Brit. Columbia.

*g* Prof. of Ch. History (Chic. Theol. Sem.)

*h* Judge of Supreme Court of Canada.  
*i* Sometime Scholar, (Harvard).

*j* Prin. of New Glasgow High Sch.

*k* Prin. Sydney Academy.

*l* Prin. Westminster High School.

*m* India Civil Service, Madras.

*n* Judge of Probate, St. John, N. B.

*o* Sometime Fellow (J. H. U.), and Prof. of Greek and Latin (Allegheny Coll.)

*p* Sometime Scholar (J. H. U.); Prof. of English, Western Univ., Ont.

1877 <i>a</i> Waddell, John, <i>Ph. D., D. Sc.,</i> 14, 23.	1891 West, Thomas Fred.
1897 Waddell, Wm. Henry, jr.	1892 Weston, Clara Paine, 14.
1870 Wallace, John.	1892 Weston, Rolfe Andrews, 14.
1898 Watt, Arthur William, 13.	1878 Whitman, Alfred.
1892 <i>b</i> Webster, Kenneth Grant Tre- mayne, <i>M. A.,</i> 9.	1897 Wolkie, Florence Annie.
	1898 Wood, George.
	1894 Yorston, Frederick, <i>B. A.</i> 10.

## BACHELORS OF LETTERS.

(For the signification of numbers affixed to the names see page 135.)

1897 Crockett, Albert Edwin.	1894 McDonald, Alex. Donald.
1892 Fraser, James Gordon.	1895 McKay, William Park.
1895 Gunn, Alexander Donald.	1898 McKinnon, Wm. Thos. Morris.
1896 Hill, Amy.	1896 Marshall Lillian E.
1899 Hobrecker, Alma Helena.	1891 Montgomery, John.
1896 Johnston, James Robinson.	1891 <i>c</i> Muir, Ethel <i>Ph. D.</i>
1899 Lawlor, Gertrude Louise, 13.	1887 <i>d</i> Ritchie, Eliza, <i>Ph. D.,</i> 11.

## BACHELORS OF SCIENCE.

(For the signification of numbers affixed to the names, see page 135.)

1897 Archibald, Ebenezer Hy., 29.	1893 McIntosh, Donald Sutherland.
1893 Arthur, George.	1892 McKern, Geo. Wilbert, <i>M. D.</i>
1897 Blair, Alexander David.	1894 McKittrick, Frederick James Alexander, 14, 29.
1882 Cameron, Alexander George.	1885 Miller, John James.
1885 Campbell, Geo. Gordon, <i>M. D.</i>	1893 Morrison, Hugh Thomas, 14.
1898 Cook, Alexander David.	1893 O'Brien, Robert Faulkner.
1899 Cordiner, Charles Alonzo.	1883 Reid, Arthur Gordon, <i>M. B.</i> <i>C. M.,</i> 13, 25.
1895 Forrest, William Duff.	1884 Smith, Henry McNeil.
1880 Fraser, Wm. Matheson, 24.	1886 <i>e</i> Stewart, Anne Amelia, 14.
1895 Lange, Christian Christoph Andrew, 22.	1897 <i>f</i> Tait, Jas. Sinclair, <i>B. S.</i> (Mt. All.), <i>M. D., ad eundem.</i>
1883 McColl, Archibald.	
1896 McIntosh, Douglas, 20, 29.	

## BACHELORS OF LAWS.

1897 A'tken, Robert Traven Davi- son, <i>B. A.</i>	1892 Calder, Frederick.
1891 Allison, Edmund Powell, <i>B. A.</i>	1893 Cameron, Daniel Alexander.
1893 Anderson, Albert Hudson, <i>B. A.</i>	1899 Cameron, Jno. Alex. Hugh, <i>B. A.</i>
1890 Armstrong, Bennett Hornsby.	1889 Campbell, Alexander.
1888 Armstrong, Ernest Howard.	1889 Campbell, Alex. John, <i>B. A.</i>
1899 Ayre, Geo. Wm. Bulley.	1888 Campbell, John Roy, <i>B. C. L.</i>
1895 Barnstead, Arthur Stanley, <i>B. A.</i>	1887 Carter, Titus James.
1885 Bennett, Albert Watson.	1886 Carter, William Doherty.
1893 Bennett, Richard Bedford, <i>M.</i> <i>L. A., N. W. T.</i>	1892 Casey, C. E., <i>B. A.</i>
1896 Bigelow, Harry Veeder, <i>B. A.</i>	1886 Chisholm, Joseph Andrew.
1892 Bill, Edward Manning, <i>B. A.</i>	1887 Cluney, Andrew.
1892 Blackadar, Hugh Saxon, <i>B. A.</i>	1891 Congdon, Frank Hinkle.
1885 Boak, Henry Westman Conroy.	1889 Congdon, Frederick Tennyson, <i>B. A., LL. B. (Tor.), ad</i> <i>eundem gradum.</i>
1894 Borden, Henry Clifford.	1894 Copp, Arthur B.
1890 Bowser, William John.	1892 Corbett, Jacob Edward.
1898 Boyd, John Albert, <i>B. A.</i>	1894 Crowe, Robert William, <i>B. A.</i>
1893 <i>g</i> Brown, Harry Whidden, <i>B. A.</i>	1886 Crowe, Walter.
1899 Burchell, Charles Jost, <i>B. A.</i>	1898 Cummings, Alfred Graham, <i>B. A.</i>
1894 <i>h</i> Burns, Clement Bancroft, <i>B. A.</i>	1889 Cummings, Selden Wm., <i>B. A.</i>
1880 <i>i</i> Cahan, Charles Hazlitt, <i>ex-</i> <i>M. P. P.</i>	1891 Davison, Jas. MacGregor, <i>B. A.</i>

*a* Sometime Vans Dunlop Scholar, (Edin.) and Prof. of Chem., Royal Mil. Coll., Kingston.

*b* Sometime Scholar (Harv.)

*c* Prof. of Philosophy (Mt. Holyoke).

*d* Sometime Fellow (Cornell); Prof. of Philosophy (Wellesley Coll.).

*e* Sometime Scholar (Bryn Mawr).

*f* Med. Supt. Hosp. for Insane, Nfld.

*g* Priv. Secy. Min. Militia, Ottawa.

*h* Priv. Secy. Min. Finance, Ottawa.

*i* Lecturer on Torts (Dalhousie Col-  
lege).

1892	Dockrill, George O'Gorman Mahon.	1888 c	McInnes, Hector.
1899	Douglas, John Carey, <i>A. B.</i>	1890	McIntyre, Archie A., <i>B. A.</i>
1885	Doull, Walter Scott, <i>B. A.</i>	1888 d	MacKay, Adams Archbd., <i>B. A.</i>
1892	Doyle, Matthew Nicholas.	1890	MacKay, Henry Seaton.
1890	Fairweather, Fredk. Laurence.	1899	MacKay, John James.
1891	Fairweather, Stewart Lee.	1897	McKay, John William.
1899	Fawcett, John Lewis.	1896	McKay, Robert Sims.
1897	Ferguson, Wm. McMillan.	1897	MacKenzie, Alex. George.
1895	Finlayson, Duncan, <i>B. A., M. P. P.</i>	1887	McKinnon, Donald Alexander. <i>M. P. P., P. E. I.</i>
1898	Finn, Robert Emmett.	1892	McKinnon, John Archibald, <i>B. A.</i>
1889	Forsythe, Geo. Ormond, <i>B. A.</i>	1897	McKinnon, John Lauchlin, <i>B. A.</i>
1890	Frame, Joseph Fulton.	1898	McLatchy, Harry Otis.
1892 a	Fraser, Alex Hugh Ross.	1887	McLatchy, Henry Francis.
1898	Fraser, Thomas Munro.	1892	McLean, Alex. Kenneth.
1899	Freeman, Churchill Locke, <i>A. B.</i>	1895	McLean, Chas. Archbd., <i>B. A.</i>
1895	Fullerton, Charles Percy.	1898	McLeod, John Robert.
1892	Fulton, Edgar Melville.	1888	McLennan, Daniel.
1893	Fulton, John Avard.	1899	MacMillan, Neil A., <i>B. A.</i>
1892	Fulton, Willard Hill, <i>B. A.</i>	1891	McNeil, Alex., <i>B. A.</i>
1895	Girroir, Edwd. Lavin, <i>B. A.</i>	1889	McNeill, Albert Howard, <i>Q. C.</i>
1893	Graham, Robert Blackwood.	1890	McPhee, Daniel Lochlan.
1894 b	Graham, Robert Henry, <i>B. A.</i>	1897	McPhie, Stewart.
1895	Grant, David Kenzie, <i>M. A.</i>	1896	McVicar, Ronald.
1899	Gray, Wm. Smith, <i>B. A.</i>	1888 †	Magee, Edgar Allison.
1888	Gregory, Charles Ernest.	1898	Mahon, Harry Edmund, <i>B. A.</i>
1893	Grierson, John Arthur, <i>B. A.</i>	1893	March, Stephen Edgar.
1897	Gunn, Alexander Donald, <i>B. L.</i>	1892	Mathers, Frederick Francis.
1890 †	Hamilton, Chs. Francis, <i>B. A.</i>	1899	Matheson, Jos. Duncan.
1887	Hanright, Fredk. Wm., <i>B. A.</i>	1890	Mellish, Humphrey, <i>B. A.</i>
1886	Henry, William Alexander.	1886	Milliken, Albert Edward.
1894	Hewson, Edgar Hillis, <i>B. A.</i>	1898	Mills, Nehemiah Marks.
1894	Hill, Wm. Arthur Gesener.	1893	Montgomery, John, <i>B. L.</i>
1896	Hood, John.	1885 †	Mooney, Patrick C. C.
1890	Howay, Frederick William.	1892 e	Morine, Hon. Alfred Bishop, <i>M. P. N/d.</i>
1890	Huggins, William Hugh.	1888	Morrison, Atulay McAulay, <i>M. P.</i>
1894	Irving, tRobert Archibald.	1897	Morrison, Fred. Augustus.
1885	Ives, Welford Black.	1897	Morrison, John Strople Metzler.
1896	Jenks, Stewart Dixon, <i>LL. B.</i>	1885	Morse, Charles.
1886	Jennison, Hedley Vicars.	1897	Moseley, Edgar William.
1892	Johnstone, Lewis Martin.	1893	Munro, Henry Havelock.
1898	Johnston, Jas. Robinson, <i>B. L.</i>	1899	Murphy, Thomas Wm.
1888	Jones, Harry Treadway.	1892	Murray, Robert Gray.
1898	Kaulbach, Kupert Creighton.	1896 f	Murray, Robert Harper, <i>B. A., LL. M.</i>
1895	Keefer, Ralph Tupper, <i>B. A.</i>	1899	Newcomb, Louis Forrester.
1893	Kenny, Joseph Burke.	1898	Nicholls, Edward Hart, <i>B. A.</i>
1899	Killam, Cecil, <i>A. M.</i>	1899	Nichols, Frank Wm., <i>B. A. B.</i>
1895	King, Henry Wyth DeWolfe.	1898	Nicholls, George Everard Edgehill.
1897	Knight, James Arminius.	1890	Notting, Thomas.
1887	Lane, Charles Wilkins.	1898	Oakes, Ingram, <i>B. A.</i>
1898	Leahy, William James.	1898	O'Connor, William Francis.
1885	LeNoir, Melaim Uniacke.	1887	O'Donoghue, Richard, <i>B. A.</i>
1891	Logan, Hance James, <i>M. P.</i>	1899	O'Mullin, John Coll.
1896	Loggie, William James.	1895	Outhit, James Francis.
1889	Lovett, Henry Almon, <i>B. A.</i>	1890	Oxley, Chas. Howard, <i>B. A.</i>
1895	Lovett, Laurence Arthur.	1898	Parsons, George Harold, <i>B. A.</i>
1887	Lyons, William Alexander.	1898	Parsons, Wm. Rufus, <i>B. A.</i>
1890	McBride, Richard.	1891	Paton, Vincent John, <i>B. A.</i>
1896 †	McCart, Leander Davison, <i>B. A.</i>	1889	Patterson, Geo. Geddie, <i>M. A.</i>
1893	McCoy, Wensley Blackall, <i>B. A.</i>	1893	Payzant, John Albert, <i>B. A.</i>
1888	McCready, Charles Alexander.	1894	Payzant, Wm. Lewis, <i>B. A.</i>
1887	McCully, Frank Arthur, <i>B. A.</i>	1897	Phalen, Robert Francis.
1894	McDonald, Alvin Fraser, <i>B. A.</i>	1896	Pineo, Avard Vernon, <i>B. A.</i>
1891	McDonald, Allan Joseph, <i>B. A.</i>	1893	Puddington, Henry Fisher.
1887	Macdonald, Edward Mortimer, <i>M. P. P.</i>	1898	Purdy, Harry Alden, <i>B. A.</i>
1899	Macdonald, Finlay.	1898	Purney, Willard Parker.
1891	McDonald, Josepn.	1898	Putnam, Harold, <i>B. A.</i>
1886	McDonald, James Alex., <i>B. A.</i>	1899	Richardson, John Wm.
1892	McDonald, Lauchlin Xavier.	1890	Roberts, John Arthur.
1890	McDonald, William, <i>B. A.</i>		
1838	MacEchen, Francis Alexander.		
1895	MacIreith, Robt. T.		

† Deceased.

a Law Librarian (Cornell Univ.)

b Mayor, New Glasgow.

c Lecturer on Procedure (Dal. Coll)

d Law Clerk N. S. Legislature.

e Member of Nfld. Govt.

f Law Lecturer (Maine Univ.).

1886	Robertson, Henry McNeil.	1890	Stevens, Daniel Joshua.
1898	Robertson, Henry Whitford.	1896	Ternan, Gerald Constantine Breifni.
1894	Robertson, Struan Gordon, <i>B. A.</i>	1886	Thompson, Stanley Rufus.
1890	Robertson, Thos. Reginald, <i>B. A.</i>	1893	Thompson, William Ernest.
1887	Rogers, Henry Wyckoff.	1887	Thomson, Walter Kendall.
1889	Ross, Henry Taylor, <i>B. A.</i>	1893	Tilley, Leonard Percy De Wolfe.
1899	Ross, Howard Salter.	1889	Tobin, Thomas Finlayson.
1896	Ross, Hugh.	1895	Tremaine, Charles Frederick.
1893	Rowlings, George Anderson Row, <i>B. A.</i>	1886	Troop, Arthur Gordon, <i>B. A.</i>
1891	Ruggles, Nepean Clarke.	1892	Trueman, William Harley.
1893	Russell, Frank Weldon, <i>LL.M.</i>	1898	Tufts, Clifford Ashton, <i>B. A.</i>
1887	Russell, Joseph Ambrose	1897	Vernon, Gilbert Hugh.
1892	Sangster, Herb. Warren, <i>B. A.</i>	1899	Waddell, Wm. Hy., <i>B. A.</i>
1899	Sargent, Joseph Heinrich.	1885	Wallace, Wm. Bernard, <i>M.P.P.</i>
1892	Schurman, Geo. Wellington, <i>LL. M.</i>	1886	Walsh, William Walter.
1896	Scott, Frank Brettle, <i>B. A.</i>	1886	Wells, William Woodbury, <i>M. P. P., N. B.</i>
1885	Sedgewick, Jas. Adam, <i>B. A.</i>	1891	White, Thos. Howland, <i>B. A.</i>
1891	Shaw, Alfred Enos, <i>B. A.</i>	1889	Whitford, Joseph Arthur.
1885	Shaw, G. S.	1885	Whitman, Alfred, <i>B. A.</i>
1890	Sinclair, John Archibald.	1891	Wickwire, Harry Ham, <i>B. A., M. P. P.</i>
1899	Slyater, James Morrow.	1896	Wood, John Elijah, <i>B. A.</i>
1892	Smith, Bowyer Sydney.	1893	Woodworth, Chas. Milton, <i>B. A.</i>
1895	Smith, George.		
1893	Stairs, Harry Bertram, <i>B. A.</i>		

## DOCTORS OF MEDICINE AND MASTERS OF SURGERY.

1899	Almon, William Bruce.	1898	McDonald, Daniel.
1898	Archibald, Matthew George.	1898	McDonald, Edw. Murray.
1899	Atkinson, Edw. Payson.	1895	McDonald, John Clyde.
1897	Bentley, Robie Dugwell, <i>B. A.</i>	1896	Macdonald, William Henry.
1875	Bethune, John Lemuel, <i>M. P.</i>	1896	McEwen, Henry Emanuel.
1897	Bissett, Ernest Eugene.	1893 †	McGeorge, Thomas.
1898	Brehm, Robert Almon.	1899	Mackay, John St. Clair.
1897	Brown, Martha Wyman.	1895	McKay, Katherine Joanna.
1875	Bruce, William T., <i>B. A.</i>	1898	McKenzie, Murdoch Daniel.
1898	Buckley, Avery Fillis.	1899	McLean, Murdoch Thomas.
1893	Byers, David Walter.	1899	McMillan, Charles Edward, <i>B. A.</i>
1874 <i>a</i>	Campbell, Donald Alexander.	1872	MacMillan, Finlay.
1874	Chisholm, Donald.	1872 †	McRae, William.
1893	Coady, Patrick Francis.	1893	Meyer, Edward J.
1894	Cogswell, William Furlong.	1874 <i>c</i>	Moore, Edmund.
1875	Cox, Robinson.	1895	Moore, Ernest Fraser, <i>B. A.</i>
1894	Dechman, Andrew Arthur.	1893	Morrow, Arthur, <i>M. B. C. M.</i> ( <i>Edin.</i> ), <i>ad eundem gradum.</i>
1872 †	DeWolfe, George H. H.	1898	Morton, Angus McDonald.
1898	Dickey, Hugh Leverette.	1875	Muir, William S., <i>L. R. C. P.</i> & <i>S. (Edin.)</i> .
1897	Dorman, Oscar Chipman.	1895	Munro, Cranswick Burton.
1892	Drysdale George Nelson.	1899	Munroe, James Gilbert.
1895	Fairbanks, Harry Gray.	1895	Murphy, George Nelson, <i>M. D.</i>
1899	Farrell, Edward Dominick.	1896	Murray, Duncan.
1899	Farrell, Louis Patrick.	1896	Olding, Clara Mary.
1898	Forrest, William Duff, <i>B. Sc.</i>	1897	Payzant, Henry Allison.
1897	Fraser, Alexander, <i>B. A.</i>	1899	Randall, Mary Leila.
1898	Gandier, George Gaw.	1893	Rice, Frank Ernest.
1897	Gates, Charles Randall.	1875 †	Robert, Casimir.
1899	Goodwin, Wendell VanKleeck.	1896	Ross, Alexander.
1892	Grant, William.	1899	Shaw, Sidney Everett.
1897	Grierson, Robert, <i>B. A.</i>	1895	Simpson, Henry Osmond.
1894	Hamilton, Annie Isabella.	1896	Slaughenwhite, Stephen Sinclair.
1891	Hamilton, Charles Alfred.	1872 †	Sutherland, Roderic
1872 †	Hiltz, Charles William.	1898	Thompson, Alfred.
1892	Irwin, Archer.	1892	Turnbull, George Dykeman.
1891	Johnson, Isaac Wellwood, <i>L. R. C. P. (Edin.)</i>	1896	Williamson, Samuel W.
1890	Kent, Hedley Vicars.	1892	Woodworth, Percy Churchill.
1875 <i>b</i>	Lindsay, Andrew Walker		
	Herdman, <i>B. A., M. B. C. M.</i>		
1893	McAulay, Murdoch William.		
1892	McCharles, Roderick William.		

† Deceased.

*a* Prof. of Medicine (Hfx. Med. Coll.)*b* Prof. of Anatomy (Hfx. Med. Coll.)*c* Asst. Physician Hospital for Insane, Dartmouth.



## STUDENTS, 1898-99.

## FACULTY OF ARTS.

(The number in some cases affixed to the name, indicates the number of years attended by the student as candidate for a degree.)

Anderson, Charles Willoughby, 4	Halifax.
Anderson, James Henry Addison, 4	St. Peter's Bay, P. E. I.
Archibald, Adams Douglas, B A	Halifax.
Archibald, Edith Margaret Mellish, 2	Halifax.
Archibald, Eugenie, 4	Truro.
Archibald, George Grassie, 2	Truro.
Austen, Minna May, M. A.	Halifax.
Baird, John William Adams, 4	River Hebert.
Baker, Harold, 1	Dartmouth.
Barnes, James, 4	Halifax.
Bentley, Ethel Elizabeth	Halifax.
Bentley, John Skipwith, 3	Truro.
Bentley, Regina Alice, 1	Halifax.
Best, Lillian Gertrude, 2	Grafton, N. S.
Blanchard, Melville Waddell, 3	Truro.
Eorden, Lorris Elijah, 4	Sheffield Mills.
Brown, Claudine M	Halifax.
Brundage, Gussie Matilda	Oxford, N. S.
Burriss, Grace Dean, 4	Upper Musquodoboit.
Cameron, Fraser, 2	Glace Bay.
Campbell, Jessie Bell, 1	Baddeck.
Campbell, Jessie Brown, 4	Halifax.
Carr, James Bearisto, 2	Campbellton, N. B.
Chase, Margaret Hawthorne, 4	Onslow.
Christie, Clarence Victor, 1	Halifax.
Christie, George Archibald, 1	Halifax.
Coffin, Ernest William, 1	Charlottetown, P. E. I.
Colquhoun, John George, B. A.	Little Harbor.
Conrod, William Walter, B. A.	Truro.
Covey, Fannie Ruth	Halifax.
Crowe, Henry Scott, 2	Halifax.
Cumming, Alison, 4	Truro.
Cunningham, Allan Rupert, 3	Dartmouth.
Cunningham, Margaret	Halifax.
Cunningham, Willam Andrew, 4	Tatamagouche.
Dauphney, Thomas Thore, 1	Liverpool, N. S.
Davis, Roy, 4	Clifton, N. S.
DeWolfe, Margaret Woodill, B A.	Halifax.

Dickey, Edwin Egbert, 4	Upper Canard.
Donovan, William Edward, 2	Halifax.
Douglas, Edgar, 3	Halifax.
Ferguson, John Archibald	Port Morien.
Fisher, Franklin, 4	Bay of Islands, Nfld.
Fleming, Nancy O'Brien, 3	Halifax.
Flemming, Ethel Augusta, 3	Halifax.
Forbes, George Ernest, 4	Little Harbor.
Forbes, Homer Dudley, 2	St. John, N. B.
Forbes, Jean Johnston	Little Harbor.
Forrest, Catherine Munro, 2	Halifax.
Forrest, Jean Fairbanks, 2	Halifax.
Fullerton, Aubrey Willoughby	Digby.
Fulton, Clarence, 4	Stewiacke.
Fulton, Thomas Truman, 1	Bass River.
Glover, Benjamin, 4	Georgetown, P. E. I.
Gordon, Jean Anna May, 2	River John.
Gorham, Mildred Helen	Halifax.
Grant, Clarence Fraser, B. A.	Port Morien.
Grant, Wm. McDonald, 2	New Glasgow.
Hallam, Wm. Thos., 2	London, Ont.
Harper, Elizabeth James	Chipman, N. B.
Harvey, Edward Kitson, 2	Halifax.
Hebb, Arthur Morrison, 4	Bridgewater.
Hebb, Thomas Carlyle, 3	Bridgewater.
Hobrecker, Alma Helena, 4	Halifax.
Hobrecker, Hedwig	Halifax.
Howatt, Irving Brass, 1	French River, P. E. I.
Huestis, Lizzie Starr	Halifax.
Hunt, Helen Anderson	Halifax.
Hunter, Eliza Beatty, B. A.	Halifax.
Johnstone, Montague Malcolm Stuart, 3	Montague, P. E. I.
Kaiser, Mabel Fawcett	Halifax.
Keith, Donald, 4	Halifax.
Kennedy, James Horace, 2	Halifax.
Kent, Harry Arnold, 3	Truro.
Kent, Herbert Howard, 4	Truro.
King, Harry DeWolfe, LL. B.	Halifax.
Lawlor, Gertrude Lonise, 4	Dartmouth.
Lawson, David Alexander, 2	Grafton, N. S.
Layton Robert Blackwood, 2	Marshfield, P. E. I.
Liechti, Bertha	Halifax.
Liechti, Minna	Halifax.
Lindsay, Charles Fowler, 4	Halifax.
Lindsay, Murdoch Alexander, 1	Halifax.
Lyons Francis Patrick McMahon, 2	Kentville.
McArthur, Angus, 2	New Glasgow.
MacCaskill, John James, 4	Little Narrows, C. B.
McCrow, Ella Augusta	Halifax.

Macdonald, Alexander Elmore Murray	Truro.
Macdonald, Archibald, 4	Cape Breton.
Macdonald, Campbell, 1	Halifax.
Macdonald, Ewen, 3	Murray Head Ro., P. E. I.
Macdonald, Murdoch Stewart, 3	Whycocomagh.
Macdonald, Thomas Forrester, 1	Halifax.
Macdonald, Thomas Henry, 1	New Glasgow.
Macdonald, Wentworth Stanley, 3	New Glasgow.
McDonald, William, 2	Springville, E. R.
McIntosh, Charles Campbell, 4	Malagawatch.
Mackintosh, Finlay Grant, 3	Springville, E. R.
Mackintosh, Peter Duncan, 3	St. George's Channel, C. B.
Mackasey, William Patrick, 2	Halifax.
Mackay, Alexander Murray, 3	Four Mile Brook, Pictou.
Mackay, Annie, 4	Pictou.
MacKay, Nora Katrina, 3	Dartmouth.
Mackay, Robert Grant, 4	Springville.
McKay, William Alfred, 2	West Brook, River John
MacKean, James Alexander, 2	West LaHave.
Mackenzie, David Wallace, 3	Flat River, P. E. I.
MacKenzie, George Norris, 4	Parrsboro.
McKenzie, George William, 4	St. George's Channel, C. B.
MacKenzie, Janie Lucinda, 4	Bedford.
MacKenzie, Kenneth Ferns, 1	Truro.
MacKenzie, Luther Burns, 4	Bedford.
MacKenzie, William Roy, 1	River John.
Mackie, Irwin Cameron, 2	Brockton, Mass.
McKie, Minnie Helen	Halifax.
McKinnon, Duncan Hugh, 3	Sydney River.
McLellan, Leander Blair, 4	Noel Shore.
MacLeod, Albert Morrison, 4	Lorne.
Macleod, Edward Annand, 3	Dingwall, C. B.
MacLeod, John Charles, 4	Port Caledonia.
McPherson, Frederick Gordon, 1	Halifax.
McPherson, Malcolm James, 2	Uigg.
McQueen, Norman	Whitney Pier, C. B.
Mäder, Leroy Edred Joel, 1	Shubenacadie,
Main, Charles Ogg, 2	Kingston, N. B.
Mair, Catherine Firth, 3	Campbellton, N. B.
Marshall, Guilford Romeo, 2	Halifax.
Messenger, Ralph James, 4	Bridgetown.
Miller, Clara Mae	Dartmouth.
Miller, Lemuel James, 2	Charlottetown, P. E. I.
Mollison, Milton, 1	P. E. I.
Montgomery, Charles H, 1	St. John, N. B.
Moody, Georgina Maud, 4	Halifax.
Moody, Margaret H	Halifax.
Morrison, Bertha Leila, 1	Dartmouth.
Morrison, Frederick Augustus, LL. B., 1	Milltown, N. B.

Morrison, John William Geddie, 3	Catalone, C. B.
Munro, Henry Fraser, 4	Pictou.
Murray, Adam Henry Stewart, 4	Sussex, N. B.
Myers, Charles Allan, 3	Lake Verd.
Myers, Miss M. E.	Lake Verd.
Nicholson, Daniel John, 1	Englishtown, C. B.
Nicholson, John William Angus, M. A.	Oban.
O'Brien, Clarence Wilbert, 4	Noel.
O'Brien, Osmond Franklin, 4	Noel.
Outhit, William Edward, 4	Melvorn Square, Annap.
Parker, Edward Ross, 2	Yarmouth.
Ramsay, Ernest Herbert, 3	Hamilton, P. E. I.
Ramsay, James Archibald, 4	Hamilton, P. E. I.
Rankine, John, 3	Halifax.
Read, Edith MacGregor, 3	Halifax.
Read, Winifred	Halifax.
Rice, Grace Elizabeth Bernard, 4	Weymouth.
Ritchie, Reginald Lee, 2	Halifax.
Robertson, Mabel Howard	Halifax.
Robertson, Mollie Seaton	Halifax.
Ross, Arthur, B. A.	Eureka, Pictou.
Ross, David Charles, 4	Blanchard Road.
Ross, Daniel Edward, 2	No. Bedeque, P. E. I.
Ross, George Henry, 1	Ross' Corner, P. E. I.
Ross, George Murray, 4	Blue Mountain.
Ross, John Samuel, 4	Eureka, Pictou.
Ross, Theodore, 4	Ross' Corner, P. E. I.
Ross, William Alexander, B. A.	Lorne.
Routledge, Arthur Weston, 4	Sydney.
Roy, Myrtle	Bedford.
Ruggles, Vernon Douglas, 2	Halifax.
Saunders, Grace Hart	Halifax.
Sedgewick, Garnett Gladwin, 1	Middle Musquodoboit.
Sedgewick, William Harry, B. A.	Musquodoboit.
Seeley, Charles Herbert, 3	Halifax.
Seaton, Ella Winifred	Halifax.
Simmonds, Lillie Irene	Dartmouth.
Simpson, Ruth, 3	New Glasgow.
Spencer, Arthur Gordon, 3	Truro.
Stairs, Susan Isabelle	Halifax.
Stavert, Hensley, 1	Clark's Mills, P. E. I.
Stewart, Catherine Amelia	Pictou.
Stuart, Mary Ethel, 2	Truro.
Sutherland, Edith Frances, 4	Baddeck, C. B.
Thomson, Charles Alfred, 3	Durham, N. S.
Urquhart, Dolena Florence, 1	
Vance, Frederick Smith, 2	Folly Village.
Watt, Arthur William, B. A.	Pictou.
Weldon, Joseph William, 3	Halifax.

Williams, Winifred Boak, 2	Boston, Mass.
Wilson, Joseph Lovitt, 1	Bridgewater.
Wood, Thomas Chalmers, 3	Halifax.
Worsley, Pennyman John, 3	Halifax.

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### FACULTY OF SCIENCE.

(The number in some cases affixed to the name, indicates the number of years attended by the student as candidate for a degree.)

Anderson, Bernard Charles, 3	Lunenburg.
Boak, Lillie May	Halifax.
Boehner, Reginald Stephen, 2	Paradise.
Burns, Stewart Jost	Newfoundland.
Callanan, Annie Matilda	Halifax.
Cameron, Mary Tupper, B. A.	Halifax.
Campbell, Duncan McDonald, B. A., 3	Truro.
Campbell, James A, 1	Heatherdale, P. E. I.
Chamberlain, Lois Dradie, 1	Halifax.
Chambers, Robert Allison	New Glasgow.
Cordiner, Charles Alonzo, 4	Grave's Point, C. B.
Crocker, John Howard	St. Stephen, N. B.
Elliot, Edith	Dartmouth.
Forrest, George Munro, 3	Halifax.
Fuller, Lewis O	Avonport, Kings.
Garroway, Cynthia Matilda	Halifax.
Gould, William Matthew, 2	Halifax.
Kennedy, Margaret Jessie	Halifax.
Knight, Emma Pickford	Halifax.
Livingstone, Charles Donald	Little Bras d'Or.
Macdonald, William Angus, 4	Halifax.
Macinnes, Peter	South Ingonish.
McLean, Neil John, 1	Fourchu.
McLennan, Ada Alice	Dartmouth.
MacLeod, Genevieve	Dartmouth
MacLeod, Maude	Charlottetown.
Morrison, Hugh Thomas, B. Sc.	Dartmouth.
Morrison, William Peter	Dartmouth.
O'Brien, Mary Augusta, 2	Noel.
Pasea, Charles Munro, 3	Trinidad.
Russell, Marguerite	Dartmouth.
Simson, Robie Seymour, 2	Halifax.
Stewart, Elizabeth Helen, 3	Halifax.
Stewart, William Edgar, 2	Jackson, N. S.
Wood, Burton Justus, 1	Lakeville.

## FACULTY OF LAW.

## UNDERGRADUATES.

## THIRD YEAR.

Ayre, George William Bulley	St. John's, N. F. L.
Burchell, Charles Jost, B. A. (Dal.)	Sydney, C. B.
Cameron, John Alexander Hugh, B.A. (St. Fr. Xav.)	Mabou, C. B.
Douglas, John Carey, A. B. (Mt. All.)	Stellarton.
Fawcett, John Louis.	Sackville, N. B.
Freeman, Churchill Locke, A. B. (Acadia)	Milton.
Gray, William Smith, B. A. (Dal.)	Halifax.
Jardine, David, A. B. (Mt. All.)	Richibucto, N. B.
Killam, Cecil, A. M. (Mt. All.)	Yarmouth.
Macdonald, Finlay	Hawkesbury.
Mackay, Henry Seaton	Westville.
MacKay, James John	Pictou.
Macmillan, Neil A., B. A. (St. Fr. Xav.)	East Bay.
Matheson, Joseph Duncan	Marble M'tain, C. B.
McIntyre, Archie A., B. A. (St. Fr. Xav.)	Antigonish.
Murphy, Thomas William	Halifax.
Newcomb, Louis Forrester	Sheffield Mills.
Nichols, Frank William, A. B. (Acadia)	Digby.
O'Mullin, John Coll.	Halifax.
Richardson, John William	St. Andrew's.
Ross, Howard Salter, A. B. (Acadia)	North Sydney, C. B.
Sargent, Joseph Heinrich	Barrington.
Schurman, Richard Upham.	Truro.
Slater, James Morrow	Halifax.
Waddell, William Henry, B. A. (Dal.)	Halifax.

## SECOND YEAR.

Allison, Harry Augustus, B. A. (Mt. All.)	Sackville, N. B.
Begg, William Alexander	Kentville.
Davison, Avard Longley, A. B. (Acadia)	Wolfville.
Foley, Joseph Patrick	Halifax.
Hale, Morley, B. A. (Mt. All.)	Liverpool.
Hall, William Lorimer, B. A. (Acadia)	Halifax.
Maddin, James William	Westville.
O'Hearn, Walter Joseph Aloysius	Halifax.
Parlee, Harold Hayward	Sussex, N. B.
Ternan, Patrick Briefni	Bedford.

## FIRST YEAR.

Blenkhorn, Selden Llewellyn	Sackville, N. B.
Cumming, Lyman Hodge	Westville.
Harris, George Chesley	Grand Bank, N. F. L.
MacNeill, Malcolm George	Riv. Bourgeois, C. B.

Matheson, Donald Frank .....	St. Peter's, C. B.
Murray, Norman Grant, B. A. (Dal) .....	Halifax.
Oland, Culverwell John, Jr. ....	Dartmouth.
Regan, Osmond Robert .....	Dartmouth.
Sutton, Frank James .....	Moncton, N. B.
Taylor, William Pentlowe .....	Fredericton, N. B.
Wallace, George Power .....	Halifax.

## GENERAL STUDENTS.

Cummings, Alfred Graham, LL.B. ....	Onslow.
Finn, Robert Emmett, LL.B. ....	Dartmouth.
Fullerton, Aubrey Willoughby .....	Digby.
Fulton, Clarence .....	Stewiacke.
Kent, Herbert Howard .....	Truro.
Keith, Donald, Jr. ....	Halifax.
Livingstone, Charles Donald .....	Bras d'Or, C. B.
MacDonald, Wentworth Stanley .....	New Glasgow.
MacKenzie, Luther Barnes .....	Bedford.
MacKenzie, David Wallace .....	Flat River, P. E. I.
MacLellan, Leander Blair .....	Noel Shore.
Morrison, John William Geddie .....	Catalone, C. B.
O'Connor, William Francis, LL.B. ....	Halifax.
Reynolds, Maynard .....	Halifax.
Ross, Theodore .....	Ross Corner, P.E.I.
Routledge, Arthur Weston .....	Sydney, C. B.
Thompson, Charles Alexander .....	Durham.
Weldon, Joseph William .....	Halifax.
Wood, Thomas Chalmers .....	Halifax.
Worsley, Pennyman .....	Halifax.

## FACULTY OF MEDICINE.

## UNDERGRADUATES.

## FOURTH YEAR.

Almon, William Bruce .....	Halifax.
Atkinson, Edward Payson .....	Baie Verte, N. B.
Dickey, Hugh, Leverette .....	Upper Canard, Kings.
Farrell, Edward Dominick .....	Halifax.
Farrell, Louis Patrick .....	Halifax.
Goodwin, Wendell Vankleeck .....	Baie Verte, N. B.
McDonald, Edward Murray .....	Sydney Mines, C. B.
Mackay, John St. Clair .....	Earlton.
McLean, Murdock Thomas .....	Groves' Point, C. B.
McMillan, Charles Edward, B. A. (Dal.) .....	Whycocomagh, C. B.
Munroe, James Gilbert .....	River John, Pictou.
Randall, Mary Leila .....	Bayfield, Antigonish.
Shaw, Sidney Everett .....	Waterville, Kings.

## THIRD YEAR.

Braine, Laurence Bernard Wilfrid.....	Halifax.
Braine, Winifred Brenda.....	Halifax.
Dymond, William Adams.....	Halifax.
Ernst, Victoria Sarah.....	Bridgewater, Lunenburg.
Forbes, Albert Ernest.....	Sydney, C. B.
Giovanetti, Louis John.....	Port Morien, C. B.
Pennington, John Wesley.....	Sandy Point, Shelburne.
Pratt, Nelson.....	Maitland, Hants.
Reynolds, James.....	Upper Musquodoboit.
Reynolds, William Pearson.....	Upper Musquodoboit.
Rodgerson, Jas. Alex. Cummings, <i>B. A.</i> (Dal.).....	Pisquid, P. E. I.
Salter, Orland Ray.....	Newport, Hants.
Taylor, Frank Woodland.....	Port la Tour, Shelburne.

## SECOND YEAR.

Archibald, Charles Clifford.....	Harmony, Col.
Cameron, Harold.....	River John, Pictou.
Cochran, Wilfrid Northup.....	Newport, Hants.
Cordiner, Charles Alonzo.....	Groves' Point, C. B.
Cox, Ralph Benjamin.....	Collinsville, Conn.
Crosby, Leander Marshall.....	Hebron, Yar.
Densmore, Lambert Douglas.....	Maitland, Hants.
DeOlloui, Marie Jeanette.....	Kingston, N. B.
Dickson, Charles Harold.....	Pictou.
Faulkner, Ebenezer Ross, <i>B. A.</i> (Dal.).....	Folly Village, Col.
Fraser, Frederick Lawson.....	West River, Pictou.
Irwin, John Frank.....	Halifax.
McLean, William Edwin.....	Sherbrooke.
Morse, Charles Dakin.....	Sandy Cove, Digby
O'Donnell, Florence Maud.....	Halifax.
Roach, Edwin Bishop.....	Nappan Station, Cumb.
Robbins, Welton Havelock.....	Rossway, Digby,
Sivright, William.....	Brookville, Pictou.
Thomas, Lewis.....	Dartmouth.
Wardrope, Monson James.....	Milford, Hants.
Woodland, George Hart.....	Wallace, Cumberland.
Zwicker, Francis Gordon.....	Halifax.

## FIRST YEAR.

Anthony, Thomas Boyd.....	Berwick, Kings.
Blackadar, Ross Livingstone.....	Hebron, Yarmouth.
Borden, Lorris Elijah.....	Sheffield Mills, Kings.
Cameron, Clarence Patrick Purcell.....	St. Peter's, C. B.
Campbell, Duncan George Joseph.....	Halifax.
Chipman, Harry Edgar Harrison.....	Round Hill, Annapolis.
Cock, James Lyall.....	Truro.
Connolly, William Edward.....	Guysboro' Intervale
Corston, James Robert, <i>B. A.</i> (Dal.).....	Halifax.



Fuller, Lewis Obid.....	Avonport, Kings.
Fulton, Silas Arthur.....	Truro
Harris, William Cecil.....	Sheffield Mills, Kings.
Hebb, Arthur Morrison.....	Bridgewater.
King, Alfred Albert.....	Hilden, Col.
Lessell, John Frederick.....	Halifax.
McGarry, Patrick Alphonso.....	Margaree, C. B.
McKay, William.....	Millsville, Pictou.
McKenzie, John Bradshaw, <i>B. A.</i> Dal.....	Campbellton, N. B.
McKinnon, William Francis, <i>B.A.</i> (St. F.X.).....	Antigonish.
Morse, George Randolph.....	Melvorn Square, Annap.
Murphy, George Henry.....	Cross Roads, Ohio, Antig.
Nicholson, Samuel.....	Dundas, P. E. I.
Norwood, Edmund Bambrick.....	Hubbard's Cove.
O'Brien, Clarence Wilbert.....	Noel, Hants.
O'Brien, Milton Addison, <i>B. A.</i> (Dal.).....	Noel, Hants.
Philp, Martha Agnes Landers.....	Halifax.
Phinney, Willoughby Shafner.....	South Farmington, Annap.
Wallace, Peter James.....	Chatham, N. B.
Watson, David Thorburn Campbell.....	Kingston, Jamaica.

## GENERAL STUDENTS.

Burns, Stewart Jost.....	St. John's, Newfoundland.
Crocker, John Howard.....	St. Stephen, N. B.



## APPENDIX.

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# FACULTIES OF ARTS AND SCIENCE.

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### JUNIOR MATRICULATION

### EXAMINATION PAPERS, 1898-99.

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#### LATIN.

*Examiner* ..... HOWARD MURRAY, B. A.

CÆSAR : GALLIC WAR, BOOKS II AND III. VERGIL : AENEID,  
BOOK II.

TIME : THREE HOURS.

#### I.

Translate :

(a) Quo proelio bellum Venetorum totiusque orae maritimæ confectum est. Nam cum omnis juvenus, omnes etiam gravioris ætatis, in quibus aliquid consilii aut dignitatis fuit, eo convenerant, tum navium quod ubique fuerat in unum locum coëgerant. Quibus amissis, reliqui neque quo se recipere, neque quemadmodum oppida defenderent habebant. Itaque se suaque omnia Cæsari dederunt. In quos eo gravius Cæsar vindicandum statuit, quo diligentius in reliquum tempus a barbaris jus legatorum conservaretur. Itaque, omni senatu necato, reliquos sub corona vendidit.

(b) inprovisum aspris veluti qui sentibus anguem pressit humi nitens, trepidusque repente refugit attollentem iras, et caerulea colla tumentem : haud secus Androgeos visu tremefactus abibat. inruimus densis et circumfundimur armis, ignarosque loci passim et formidine captos sternimus. adspirat primo fortuna labori. atque hic successu exsultans animisque Coroebus, 'o socii, qua prima,' inquit, 'fortuna salutis monstrat iter, quaque ostendit se dextra, sequamur : mutemus clipeos, Danaumque insignia nobis aptemus. dolus an virtus, quis in hoste requirat?'

1. Parse in (a) *navium*, *quibus*, *amissis*, *vindicandum*; and account for mood and tense of *reciperent* and *conservaretur*.

2. *Erant* hae *difficultates* belli gerendi quas supra ostendimus, sed multa *Caesarem* tamen ad id bellum *incitabant*.

Translate, and explain briefly what were the *difficultates*, the *bellum*, the *incitamenta*.

3. Translate and write explanatory notes upon :

- (a) *vertitur* *interea* *caelum* et *ruit* *Oceano* *nox*
- (b) *vidi* *Hecubam* *centumque* *nurus*.
- (c) *Troiae* et *patriae* *communis* *Erinys*.

Explain also : *Pelopea* *mœnia*, *geminos* *Atridas*, *Tritonidis* *arcem*, *Lydius* *Thybris*.

4. Scan, marking quantities, the first four lines of extract (b).

5. What is the time of the events recorded in the second and third books of the Gallic War?

Between what years was the Aeneid composed?

## II.

1. Assuming a knowledge of the quantity of the syllables in a Latin word, how do you determine the position of the accent?

Write down and accent all the words of more than two syllables contained in the last three sentences of extract (a).

2. Write down the principal parts and the 2nd sing. of the pres. and fut. ind. of *eo*, *nolo*, *fero*, *possum*

2. Show how you would express in Latin the italicised words in these questions :—(a) *No one* saw him. (b) He did this *that no one* might see him. (c) He did this *and no one* saw him.

4. Different uses of *Ut*, with examples.

5. Turn into Latin :

- (a) The girl whom you saw there is younger than her brother.
- (b) This boy has been sent from home that he may be made wiser.
- (c) When the enemy attacked the camp our men fought long and bravely.
- (d) The envoys said that they had not conspired against the Roman people.
- (e) When Caesar inquired of these what States were in arms, they replied as follows.

## III.

For sight translation :

Tum *Rebilus*, *legatus* *Caesaris*, quem *Curio* secum ex *Sicilia* duxerat, quod magnum habere usum in re militari sciebat, " *Perterritum*," inquit, " *hostem* *vides*, *Curio*. *Quid* *dubitas* *uti* *temporis* *opportunitate* ?" *Ille* *unum* *elocutus*, *ut* *memoria* *tenerent* *miites* *ea*, *quae* *pridie* *confirmasset*, *sequi* *sese* *jubet*, *et* *praecurrat* *ante* *omnes*. *Adeo* *que* *erat* *impedita* *vallis*, *ut* *in* *ascensu*, *nisi* *sublevati* *a* *suis*, *primi* *non* *facile* *eniterentur*. *Sed* *praeoccupatus* *animus* *Attianorum* *militum* *timore* *et* *fuga* *et* *caede* *suorum* *nihil* *de* *resistendo* *cogitabat*, *omnesque* *jam* *se* *ab* *equitatu* *circumveniri* *arbitrabantur*. *Itaque* *priusquam* *telum* *adjici* *posset* *aut* *nostri* *propius* *accederent*, *omnis* *Vari* *acies* *terga* *vertit*, *seque* *in* *castra* *recepit*.

GREEK.

Examiner.....HOWARD MURRAY, B. A.

XENOPHON: ANABASIS, BOOK I.

TIME: THREE HOURS.

I.

1. Translate :

(a.) Ἄνδρες στρατιῶται, τὰ μὲν δὴ Κίρου δῆλον ὅτι οὕτως ἔχει πρὸς ἡμᾶς, ὡσπερ τὰ ἡμέτερα πρὸς ἐκείνους· οὔτε γὰρ ἡμεῖς ἐκείνους ἔτι στρατιῶται, ἐπεὶ γε οὐ συνενόμηθα αὐτῷ, οὔτε ἐκείνος ἔτι ἡμῖν μισθοδότης· ὅτι μὲντοι ἀδικεῖσθαι νομίζει ὑφ' ἡμῶν, οἶδα ὥστε καὶ μεταπεμπομένον αὐτοῦ οὐκ ἐθέλω ἔλθειν, τὸ μὲν μέγιστον αἰσχυρόμενος, ὅτι σύννοια ἐμαντῶ πάντα ἐψευσμένος αὐτόν, ἔπειτα καὶ δεδιώς, μὴ λαβῶν με δίκην ἐπιθῆ ὧν νομίζει ὑπ' ἐμοῦ ἠδικῆσθαι.

(b) Φίλους γε μὴν ὅσους ποιήσαιο καὶ εἴνους γνοίῃ ὄντας καὶ ἱκανὸς κρίνειε συνεργῶδες εἶναι ὃ τι τυγχάνοι βουλόμενος κατεργάζεσθαι, ὁμολογεῖται πρὸς πάντων κράτιστος δὴ γενέσθαι θεραπεύειν. Καὶ γὰρ αὐτὸ τοῦτο, οὐπερ αὐτὸς ἐνεκα φίλων ᾤετο δεῖσθαι, ὡς συνεργῶδες ἔχοι, καὶ αὐτὸς ἐπειρᾶτο συνεργῶδες τοῖς φίλοις κράτιστος εἶναι τοῦτου, ὅτον ἕκαστον αἰσθάνοιτο ἐπιθυμοῦντα Δῶρα δὲ πλείονα μὲν οἶμαι εἰς γε ὧν ἀνὴρ ἐλάμβανε διὰ πολλὰ.

1. Parse in (a) αὐτοῦ, ἐπιθῆ, and in (b) εἴνους, οὐπερ.
2. Tell what you know of the life of Xenophon previous to the events recorded in this book.

II.

1. Give the nom. and gen. sing., and the gen. and dat. plur. of *παῖδες*, *πόλεις*, *ὄρη*, *στρατιώτας*, *ἀνδρί*, *ἡμεῖς*, *ὠτίδας*, *παρασάγγας*.
2. Name the voice, mood and tense, and give the first person present indicative of *ἀνέβη*, *ἤξιον*, *ταχθῆναι*, *ἦσθη*, *ἐπήνεσαν*, *ἔλθησε*, *νικῶν*, *παθεῖν*.
3. Write 3rd sing. pres. ind. of *δίδωμι*, *εἶμι*, *ὀράω*.  
2nd sing. aor. opt. act. of *λέω*, *λαμβάνω*, *ἄγω*.  
2nd sing. aor. imp. act. of *θῶ*, *λείπω*, *πέιθω*.  
Nom. sing. masc. aor. part. pass. of *πέιθω*, *ἄγω*, *ὀράω*.
4. How are adverbs formed from adjectives in the positive, comparative and superlative? Give examples.
5. Greek for ; each, each of two, the half of the ships, these men, first of all, Philip's son, and that too, as fast as they could.
6. Turn into Greek :

(a) Cyrus was loved by his mother more than his brother who was king.

(b) On hearing this, Tissaphernes set out to the king as quickly as possible.

(c) Proxenus the Boeotian came with many soldiers to help the king's brother.

(d) The Cilicians said that the soldiers who were killed were plundering the country.

(e) When the Persians saw the Greeks advancing they fled some in one way, others in another.

## III.

For sight translation :

(a) στρατιῶται τινες νικήσαντες τοὺς πολεμίους σάλπιγγὴν ἔλαβον. ἐπεὶ δὲ ἐμελλόν ἀποκτείνειν, εἶπεν, “ὦ ἄνδρες, μὴ τοῦτο ποιήσητε. ἐγὼ γὰρ οὐδένα ὑμῶν ἀπέκτεινα. ὁράτε δὲ ὅτι οὐδέν ὄπλον ἔχω, πλὴν ταύτης τῆς σάλπιγγος.” οἱ δὲ ἄνδρες εἶπον, “διὰ δὲ τοῦτο ἐτι μᾶλλον δίκαιος εἶ ἀποθανεῖν, ὅτι σὺ μὲν αὐτὸς οὐ πολεμεῖς, τοὺς δὲ ἄλλους ἐς μάχην ἐγείρεις.”

(b) παῖς τις λουόμενος ἐν ποταμῷ ὅσον οὐκ ἀπόλετο. καὶ πολλὴν δευκοῦς ἠξιώσεν ταυ πέλας παρεστηκότα σώζειν αὐτόν, ὁρῶντα τὴν χεῖρά καὶ ὁ ἀνὴρ οὐκ ὤρεξε τὴν χεῖρα, τῷ δὲ παιδί ἐμέμφοτο, ὡς ἄγαν τολμηρῶς ὄντι. ὁ δὲ παῖς ἔφη, “ὦ ξένη, νῦν σώσον ἐμέ, σωθέντι δὲ ὑστερον μέμφοι ὅσον θέλεις.”

## FRENCH.

Examiner . . . . . PROF. LIECHTI.

TIME : THREE HOURS.

## I.

A. Translate : *Charles XII.* :—

Le premier livre qu'on lui fit lire fut l'ouvrage de Samuel Puffendorf, afin qu'il pût connaître de bonne heure ses États et ceux de ses voisins. Il apprit d'abord l'allemand, qu'il parla toujours depuis aussi bien que sa langue maternelle. A l'âge de sept ans il savait manier un cheval. Les exercices violents où il se plaisait, et qui découvraient ses inclinations martiales, lui formèrent de bonne heure une constitution vigoureuse, capable de soutenir les fatigues où le portait son tempérament.

Quoique doux dans son enfance, il avait une opiniâtreté insurmontable : le seul moyen de le plier était de le piquer d'honneur ; avec le mot de gloire on obtenait tout de lui. Il avait de l'aversion pour le latin ; mais dès qu'on lui eut dit que le roi de Pologne et le roi de Danemark l'entendaient, il l'apprit bien vite, et en retint assez pour le parler le reste de sa vie.

1. *Le premier livre . . . Puffendorf.* Write the whole of this sentence in the plural. The interrog. form of a sentence, the subject of which is a *noun*, may be expressed in *two ways*; prove this by taking for example : *Charles XII. apprit l'allemand*; and explain peculiarities of construction.

2. Parse and give principal parts of : *apprit, parla, avait, était*. Write down the future of *avoir*, and the subjunctive present of *était*.
3. *Qu'il parla aussi bien que . . .* Parse the words : *qu'* and *que* in this clause. Show, giving short examples, that *que* may be used as a *conjunction*, and as an *adverb* of quantity. Translate : What do you say ? Tell me what he has done.
4. Write the mascul. of : *maternelle bonne, vigoureuse* ; and the femin. of : *violents, doux, tout*. How do you form the comparative of : *de bonne heure* ?
5. How do you account for : *de l'*, and for *en*, in the expressions : *de l'aversion ; en retint assez* ? In what cases do you express "some" and "any" by *de* ; give illustrations. Turn into French : In this city there are public gardens and beautiful houses.

II.

B. Translate :—Copenhague intimidée envoya aussitôt des députés au roi pour le supplier de ne point bombarder la ville. Il les reçut à cheval, à la tête de son régiment des gardes : les députés se mirent à genoux devant lui ; il fit payer à la ville quatre cent mille risdales, avec ordre de faire voiturer au camp toutes sortes de provisions, qu'il promit de faire payer fidèlement. On lui apporta des vivres, parce qu'il fallait obéir ; mais on ne s'attendait guère que des vainqueurs daignassent payer ; ceux qui les apportaient furent bien étonnés d'être payés généreusement et sans délai par les moindres soldats de l'armée. Il régnait depuis longtemps dans les troupes suédoises une discipline qui n'avait pas peu contribué à leur victoire le jeune roi en augmenta encore la sévérité.

6. Distinguish between : *quatre cent mille* and *quatre cents milles*. Can you tell in what cases the numeral *cent* may assume the plural form *cents* ? Write in French : Two thousand. Two miles. A thousand miles. Eighty. 1898 (letters). Write down, in French the names of the days of the week.

7. *Son régiment*. Mention the possess., adj., sing. and plur., and their corresponding pronominal forms. Explain the agreement of the possess. adj. by translating : Her Majesty, the Queen of England. His Majesty, the Emperor of Germany. Her father and her mother.

8. *Qui n'avait pas peu contribué*. Parse *qui*, and illustrate the difference between *qui* and *que* : (a) as relative pronouns ; (b) as interrogative pronouns. Write the comparat and superlative of : *peu, bon, mal, bien*.

9. Parse and give princ. parts of : *reçut, mirent, daignassent*. Turn into French : After having spoken, and give reason for difference in construction.

10. Mention the positive of *plus* and show by short examples how the French effect comparison of inferiority and superiority.

11. Translate into French : Charles XII. was the most extraordinary man of his time. This is the best book I have ever read. The steamer LaBourgoyne was lost with more than four hundred persons. *Few* persons were saved (*sauvées*). *A few* persons were saved. An English Nobleman's house. He is twenty years old. No money. Ink, pens and paper.

## MATHEMATICS.

Examiner ..... PROF. C. MACDONALD, M. A.

## ARITHMETIC AND ALGEBRA.

TIME: THREE HOURS.

N. B.—Three of the Arithmetic and six of the Algebra questions would be a full paper.

1. 4.86 dollars Canadian money = a sovereign English; find the vulgar fraction of a dollar equivalent to  $\frac{2}{6}$ .

2. Divide 3650 by 000073.

3. If a vulgar fraction, when reduced to a decimal, result in a "circle," the number of figures in the "circle" must, at the most, be one less than the divisor of the vulgar fraction.

4. In multiplying together two numbers each containing decimals you place the point according to rule. Give the rule and prove by an example of your own.

5. Express in simplest form :

$$2d - \{a - (2b - c) - b - (3a + c - 4d) - (4d + a)\}.$$

6. Multiply  $x^{2n+3b}$  by  $x^{-(2n-b)}$ ; and prove  $n(a_1 + a_2 + \dots + a_n)^0 + a_n^0 = a_1^0 + a_2^0 + a_3^0 + \dots + a_n^0$ .

7. Multiply  $a^2 + ax + x^2$  by  $a^3 - ax + x^2$ , and hence resolve into factors  $a^5 + a^4x^2 + x^4$ .

8. Find the square root of  $4x^4 - 4x^3 - 7x^2 + 4x + 4$ .

9. Solve the simultaneous equations :

$$\frac{x}{a} + \frac{y}{b} = 1, \quad \frac{x}{b} - \frac{y}{a} = 1; \text{ or these: } \frac{x + \frac{y}{2} - 3}{x - 5} = -7, \text{ and}$$

$$\frac{3y - 10x - 10}{6} + \frac{3 - y}{4} + 1 = 0. \text{ (Not both)}$$

10. Solve, by inspection, the equations  $x^2 + x - 20 = 0$ ,  $x^2 - x - 20 = 0$

11. Solve, anyhow,  $15x^2 + 11x = 102$ .

13. There are two rectangular fields each equal 4840 sq. yds. in area. One of them is 22 yds longer but 11 shorter than the other. Find the length of their sides. (By one unknown quantity if you can).

## GEOMETRY.

1. The greater side of a triangle has opposite to it the greater angle. Prove.

2. Triangles on equal bases and between the same parallels are equal in area.

3. "If a straight line be divided into any two parts, the square of the line equal the sum of the squares," etc. Give the whole enunciation and prove.

4. The angles in the same segment of a circle are all equal.

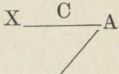
5. Cut off from a given circle a segment containing an angle = a given angle.



6. The equal tangents PQ and QR touch a circle centre O, in Q and R. Join PQ and QR and prove any simple properties of the figure that occur to you.

7. ABC is a triangle, BC is fixed, BCA is obtuse, the situation of A varies. Now let A be moved downwards till it falls into BC produced; what previous proposition results from Euc. II., 12?

8. Through a given point within a circle draw the least chord.

9. AX and BY are two parallel lines drawn as in  fig. In AX take any pt. C and from BY cut off BD = 2 AC. Prove DC trisects AB. (Bk. I).

N. B.—Four of the first five with three of 6—9 would be a full paper.

ENGLISH.

Examiner..... ARCHIBALD MACMECHAN, PH. D.

Write a short composition of at least three paragraphs on *one only* of the following themes, paying attention to handwriting, spelling and punctuation, as well as to choice of words, sentence structure and arrangement of paragraphs :—

- (a) Douglas at the Games.
- (b) The Last Hours of Roderick Dhu.
- (c) The Duel of Fitz-James and Roderick.
- (d) Fitz-James' Hunting.
- (e) The Village of Grand Pré.
- (f) Evangeline in the West.
- (g) The Proclamation in the Church of Grand Pré.
- (h) The Impeachment of Hastings.
- (i) The Conquests of Hastings.
- (j) Jessica and Lorenzo at Belmont.
- (k) Portia in Court.
- (l) The Story of the Three Caskets.

2. Reproduce carefully, in clear and simple prose, the substance of the following lines :—

“ Baldacca's Kalif, and *he* alone,  
 Rose in revolt against thy throne :  
 His treasures are at thy palace-door,  
 With the swords and the shawls and the jewels he wore ;  
 His body is dust o'er the desert *blown*.

*A mile outside* of Baldacca's gate  
 I left my forces to lie in wait,  
*Concealed* by forests and hillocks of sand,  
 And forward *dashed* with a handful of men  
 To lure the old tiger from his den  
 Into the ambush I had planned.  
 Ere we reached the town the alarm was spread,  
 For we heard the sound of gongs from *within* ;  
 And with clash of cymbals and warlike din  
 The gates swung *wide* ; and we turned and fled,  
 And the garrison sallied forth and pursued,  
*With* the grey old Kalif at their head,  
 And above them the *banner* of Mohammed ;  
 So we snared them all, and the town was subdued.

3. Analyse fully the selection in (2) ; and parse the italicized words.

## HISTORY AND GEOGRAPHY.

*Examiner* . . . . . PRESIDENT FORREST.

TIME: THREE HOURS.

## HISTORY.

1. Give leading events of English History, Saxon period.
2. Leading events of reign of Henry III.
3. Political, social and literary progress Tudor period.
4. Give an account of rebellion of Monmouth. What followed?
5. Leading events of the reign of Anne.
6. Write short account of conquest of India
7. Write short account of Crimean war.
8. After Columbus discovered America the Kings of England and France fitted out expeditions. Give brief account.
9. Who was Abbé de Loutre? Tell what you know of him.
10. Give an account of Pontiac's conspiracy.
11. Brief account of war of 1812.
11. Who was Lyon McKenzie? Write short account.
12. Give account of Ashburton Treaty.

## GEOGRAPHY.

1. Give as nearly as you can the latitude and longitude of Toronto, Quebec, Halifax, St. John, Havana, Gibraltar, Khartoum, Cape Town.
2. Give population of Great Britain and Ireland, France, Spain, Germany, Austria, Italy, Turkey, Russia.
3. What are the chief products of Trinidad, Egypt, Italy, Denmark, Sweden, Brazil, Java, Australia.
4. Bound France, Austria, Denmark, Germany, State of New York, New Brunswick, Lunenburg County.
5. Locate Delhi, Canton, Peking, Port Arthur, Seoul, Munich, Bridgetown, N. S., Summerside.

\* TIME TABLE—FACULTY OF LAW

<i>Hours.</i>	<i>Monday.</i>	<i>Tuesday.</i>	<i>Wednesday.</i>	<i>Thursday.</i>	<i>Friday.</i>
9 to 10 . . . . .	Shipping . . . . .	Const. History . . . . .	Const. Law . . . . .	Const. History . . . . .	Const. Law.
10 to 11 . . . . .	Conflict of Laws . . . . .	Crimes . . . . .	Crimes . . . . .		International Law.
11 to 12 . . . . .			Sales . . . . .	} Moot Court. . . . .	Equity.
12 to 1 . . . . .			Contracts . . . . .		Contracts.
4.30 to 5.30 . . . . .	Real Property, 1st yr.	Real Property, 2nd yr.	Procedure . . . . .	Evidence . . . . .	Torts
8 to 9 . . . . .					

\* Subject to alteration.

77  
53  

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24

La Saca  
16

Quinta Verde

Mayo  
10

MB

15  

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13 1/2

Ladra 20  

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19

280  

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267  
13

159  

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155  
4  
26  
26

30  
30

20  

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18 1/2

25  
30

32  

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30