

ANNUAL ANNOUNCEMENT

OF THE

HALIFAX MEDICAL COLLEGE.

Established 1867. Incorporated 1876.

IN AFFILIATION WITH DALHOUSIE UNIVERSITY,

HALIFAX, NOVA SCOTIA.



20TH SESSION - - 1888-9.

Halifax:

NOVA SCOTIA PRINTING COMPANY,
1888.

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Curriculum and Regulations for graduation in Medicine at Dalhousie University,	

All communications should be addressed A. W. H. LINDSAY, M. D.,
Registrar Halifax Medical College, 241 Pleasant St., Halifax, N. S.

Students on arriving in the city should call upon the Registrar,
who will impart all necessary information.

Board may be obtained at from \$12 to \$15 per month.
The Janitor of the College keeps a list of boarding houses suitable
for students.

Sept. 26,
Oct. 9
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" 11,
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" 27,
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Nov. 1,
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Dec. 21,

Jan. 7,
Feb. 1,
Mar. 6,
April 17,
" 18, T
" 18, T
" 22, F
" 23, S
" 25, T
May 2, T
" 3, F
" 4, S
" 6, M

COLLEGE ALMANAC, 1888-9.

1888.

- Sept. 26, W.—Last day for receiving applications for Matriculation at University.
Oct. 9, T.—Registration of candidates for Medical Matriculation at University.
" 10, W.—Matriculation Examination at University begins.
" 11, Th.—Last day for receiving applications for Matriculation Examination (Provincial Medical Board).
" 25, Th.—Matriculation Examination (Provincial Medical Board).
" 27, Sa.—Results of Examination declared and certificates issued. Registration and Class Tickets issued.
" 29, M.—Lectures begin at Medical College, and in Chemistry and Botany at University.
Nov. 1, Th.—Thanksgiving Day.—No lectures.
" 2, F.—Day after Thanksgiving Day. No lectures.
" 30, F.—Register closed for Session.
Dec. 21, F.—No lectures. Christmas vacation begins.

1889.

- Jan. 7, —M.—Lectures resumed.
Feb. 1, F.—George Munro Day.—No lectures at Dalhousie.
Mar. 6, W.—Ash Wednesday.—No lectures.
April 17, W.—Lectures close.
" 18, Th.—Last day for receiving applications for (Spring) Matriculation Examination (Provincial Medical Board).
" 18, Th.—Primary M. D. C. M. Examinations begin at University.
" 23, M.—Oral Examinations. Meeting of Dalhousie Medical Faculty.
" 23, T.—Results of University Examinations declared.
" 25, Th.—3 P. M. Convocation (University).
May 2, Th.—Matriculation Examination (Provincial Medical Board).
" 3, F.—Annual Meeting of Faculty, Medical College.
" 4, Sa.—Results of Matriculation Examination declared and certificates issued.
" 6, M.—Annual Meeting of Corporation.

TIME TABLE.

- A. M.**
- 9-11.** Practical Anatomy, daily (except Saturday), in the Dissecting Room, Medical College.
 - 11-12.** Chemistry, daily (except Saturday), at Dalhousie College.
 - 12-** Hospital and Dispensary Practice.
- P. M.**
- 2-3.** Botany, three times a week, at Dalhousie College.
 - 2-3.** Histology, twice a week for part of Session, at Medical College.
 - 3-4.** Materia Medica, daily (except Saturday), at Medical College.
 - 4-5.** Anatomy, daily (except Saturday), at Medical College.
 - 5-6.** Physiology, daily (except Saturday), at Medical College.

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HALIFAX MEDICAL COLLEGE.

THE CORPORATION.

ALEX. P. REID, M. D., L. R. C. S. Edin.; L. C. P. S. Can.
WM. B. SLAYTER, M. D., M. R. C. S. Eng., F. O. S. L., L. R. C. P. Lond.
EDWARD FARRELL, M. D.
JOHN F. BLACK, M. D.
JOHN SOMERS, M. D.
GEORGE L. SINCLAIR, M. D.
H. McD. HENRY, Esq., LL. B., Q. C.
D. A. CAMPBELL, M. D., C. M. Dal.
A. W. H. LINDSAY, B. A., M. D., C. M. Dal.; M. B., C. M. Ed.
J. S. LATHERN, M. D., C. M. McGill; L. R. C. P. Lond.

President:—DR. ALEX. P. REID.

Registrar:—DR. A. W. H. LINDSAY.

TRUSTEES.

HON. D. McN. PARKER, M. D., &c.
PROF. J. G. MACGREGOR, Dalhousie Univ.
H. H. FULLER, Esq.

THE FACULTY.

JOHN SOMERS, M. D., F. R. M. S., *Professor of Physiology.*
GEORGE L. SINCLAIR, M. D. Univ. N. Y.; M. D. Univ. Hal.; *Professor of Anatomy.*
D. A. CAMPBELL, M. D., C. M. Dal., *Professor of Materia Medica and Therapeutics.*
A. W. H. LINDSAY, B. A., M. D., C. M. Dal.; M. B., C. M. Edin.; *Professor of Anatomy and Practical Anatomy.*

DR. G. L. SINCLAIR, *Dean.*

DR. A. W. H. LINDSAY, *Secretary.*

ARTHUR MORROW, B. M., C. M. Edin., *Lecturer in Histology.*

G. P. SKELLY, *Janitor.*

General Statement,

1888-9.

THE Twentieth Session of the Halifax Medical College will be opened on Monday, October 29th.

The regular order of lectures will begin on that day and will be continued during the six months following.

It is very desirable that all students should, as far as possible, be in attendance at the date of the opening of the session, as otherwise they are placed at much disadvantage.

"The Halifax School of Medicine" was founded in 1867 as the Medical Department of Dalhousie University. In 1875 it became a separate corporation under the name of "The Halifax Medical College." In 1876 it was affiliated with the University of Halifax, but this body having for some years become inoperative, it has now affiliated with Dalhousie University, and in future all students attending this College who comply with the curriculum laid down by the Governors of Dalhousie University will on presentation of the required certificates be admitted to the examinations for degrees in Medicine and Surgery at that University.

The College building erected for the special purpose of medical teaching is in everyway fitted for the object in view. It is situated in an open, airy locality in close proximity to the Victoria General Hospital and the new University building. The lecture room, dissecting room, etc., are well lighted, warmed and ventilated, and are fitted with appliances for imparting knowledge in the different subjects of medical education.

Certificates of attendance on the various courses of lectures are accepted as qualifying candidates for examination before the licensing bodies of Great Britain and Ireland, and the Medical Schools in Canada and the United States.

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MATRICULATION.

The attention of students is called to the fact that in accordance with Provincial law no person can now begin the study of Medicine for the purpose of qualifying himself to practice the same in this Province, until he shall have obtained a certificate of having passed a Preliminary or Matriculation Examination. Students are therefore advised to present themselves for such examination either before the examiners of the Provincial Medical Board, or at the Medical Matriculation Examination of Dalhousie University.

A certificate from either of these bodies will entitle to registration as an undergraduate at the Halifax Medical College.

A similar law exists in all the Provinces of the Dominion, with the exception, at present, of Prince Edward Island.

Graduates in Arts or Science of any recognized College or University are not required to submit to this examination.

The Matriculation and Sessional Examinations of any chartered university or college; and also the Preliminary Examination of any Medical Licensing Board authorized by law in Her Majesty's dominions, will be accepted *pro tanto*, that is to say they exempt from examination on the subjects comprised in them, in so far as the examinations are of the same extent as those required by Provincial law.

For particulars regarding the Matriculation Examinations of Dalhousie University see Appendix.

For the information of those intending to pass the Matriculation Examination of the Provincial Medical Board, the following extracts from the Nova Scotia Medical Act, and from the Regulations of the Medical Board are published:—

Cap. 24, Rev. Stat., N. S., 5th Series. ✓

"6. Hereafter no person shall begin or enter upon the study of Physic, Surgery, or Midwifery, for the purpose of qualifying himself to practice the same in this Province, unless he shall have obtained from the Provincial Medical Board a certificate showing that he has satisfactorily passed a Matriculation or Preliminary Examination in the subjects specified in Schedule B, of this Act.

7. No candidate shall be admitted to such Matriculation or Preliminary Examination unless he shall have at least fourteen days previous to such examination given notice to the Registrar¹ of the Provincial Medical Board of his intention to present himself for such examination, and transmitted to the Registrar a certificate showing that he has completed his sixteenth year; and shall, before the examination, have paid a fee² of ten dollars to the Registrar."

SCHEDULE B.

"Uniform standard of Matriculation or Preliminary Examination, established under this Act:

Compulsory.

English Language—Including Grammar, Composition and Writing from Dictation.

Arithmetic—Including Vulgar and Decimal Fractions, and the Extraction of the Square Root.

Algebra—To the end of Simple Equations.

Geometry—First three books of Euclid.

Latin—One Book, translation and Grammar.³

*Elementary Mechanics of Solids and Fluids.*⁴

*Optional.*⁵

One of the following subjects, viz. :

History of England, with questions in Modern Geography. French translation.

German translation.

One Greek Book.⁶

History of Nova Scotia.

History of the Dominion of Canada."

In order to pass, a candidate must make fifty per cent of marks in each subject.

If fifty per cent be made in all subjects but one, he may begin study and present himself in that subject alone at next examination.

TEXT BOOKS.

Except where otherwise specified the books prescribed by the Council of Public Instruction are recommended.

EXAMINATIONS.

Examinations take place twice each year, viz., on the first Thursday in May, and on the last Thursday in October.

EXAMINERS.

REV. EBENEZER ROSS, Truro.

J. B. CURRIE, Esq., Halifax.

¹ A. W. H. Lindsay, M.D.; Registrar P. M. Board, 241 Pleasant St., Halifax, N. S.

² This fee shall not be returned in case of failure, but no additional fee is required when a supplementary examination is granted in one subject.

³ Latin Book for 1888, Virgil *Aeneid*, Bk. I.

1889, Caesar, *De bello Gallico*, Bk. II, III.

⁴ As in *Blakie's Elements of Dynamics*.

⁵ In communicating with the Registrar, students will please state the optional subject chosen.

⁶ Such as book of Xenophon's *Anabasis*.

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REGISTRATION.

All students desirous of attending lectures at the Halifax Medical College shall, at the commencement of each session, enroll their names, residences, etc., in the Register of the College, and procure from the Registrar a ticket of Registration.

The Register will be open from the commencement of the session till the 30th of November, in each year.

No student shall enter his name upon the Register as an *undergraduate* without furnishing a certificate of having passed the Preliminary Examination of the Provincial Medical Board, or one of the Matriculation Examinations of Dalhousie University, or one of such other examinations as are specified at page 7.

Any person not intending to graduate in Medicine, or intending to graduate and practice in any place where a preliminary examination is not required, will be admitted as a *General Student* without examination, and the fact that he has been so admitted will be recorded in the College Register, and on any class tickets or certificates that he may receive.

CLASS FEES, Etc.

All arrangements regarding Classes, Fees, Etc., are to be made with the Registrar. All fees are payable in advance. The Registrar will furnish a receipt at time of payment, which entitles to attendance upon lectures. Class tickets and certificates are not issued until the close of the session.

The following is a statement of the fees payable by students at the Medical College:—

Registration Fee, payable annually ¹	\$ 2 00
Fee for each of the following courses of lectures, ² Anatomy, Materia Medica, Physiology.....	12 00
Fee for Practical Anatomy (material additional).....	8 00
Histology.....	4 00

For Graduation (or Examination) Fees, and Fees for Chemistry, Practical Chemistry, and Botany, at Dalhousie, see Appendix p. 8.

As students are allowed considerable option, in the selection of classes, the amount of class fees payable for a session is somewhat variable, but the usual courses taken involve an expenditure of about \$70, exclusive of cost of Text Books.

¹ A perpetual Registration ticket will be granted on the payment of \$5.00.

² Any student after having paid the fees, and attended two courses of any class shall be entitled to a perpetual ticket for that class, except in practical branches.

INSTRUCTION.

In each of the following subjects there shall be delivered a course of 100 lectures during the six months' session, viz., in Anatomy, Physiology, Materia Medica and Therapeutics, (Chemistry)*

In Practical Anatomy the course shall be of the same duration as each of the last named, but instruction shall be given during at least two hours of each day.

(In Botany at least 50 lectures shall be delivered during the six months' course. In Practical Chemistry the course shall consist of at least 50 lessons.)*

The course in Histology shall comprise at least 25 lectures or demonstrations.

Each lecture shall be of one hour's duration.

Every professor shall occasionally examine his class upon the subjects treated of in his preceding lectures, and every such examination shall be considered a lecture.

A roll of the names of the students attending each class shall be called each day.

COURSES OF LECTURES, TEXT-BOOKS, &c.

I. - ANATOMY.

Professors..... { GEORGE SINCLAIR, M.D. Univ. N. Y., M.D. Univ. Hal. *Assistant Superintendent of Nova Scotia Hospital for the Insane.*
A. W. H. LANDSAY, B.A., M.D., C.M., Dal.; M.B., C.M., Ed.

This course is illustrated by Dissections, Dried Preparations, Skeletons, Life-sized Coloured Plate, etc.

Text Books: Gray, Wilson, Sharpey & Quain, Wagstaff's Osteology.

II. - PHYSIOLOGY.

Professor..... JOHN SOMERS, M.D., M.R.M.S.

This course embraces the Principles of Human Physiology.

Text Books: Dalton, Forster, Flint.

III. - MATERIA MEDICA and THERAPEUTICS.

Professor..... D. A. CAMPBELL, M.D., C.M., Dal., *Physician to Victoria General Hospital, Consulting Physician Halifax Dispensary.*

This course is illustrated by plates, and specimens of medicinal plants, and by samples of the various drugs, etc. Special attention will be given to the department of Therapeutics.

Text Books: Wood, Lauder Brunton.

* See Appendix.

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IV.—PRACTICAL ANATOMY.

Professor.....A. W. H. LINDSAY, M.D., Etc.

The dissecting room, open from 9 a.m. to 11 a.m., affords every facility to students for becoming practically acquainted with Anatomy under the personal supervision of the teacher.

Text Books : Ellis, Hodge, Heath, Holden.

V.—CHEMISTRY.

The lectures on this subject are given by Prof. George Lawson, at Dalhousie College, see Appendix, page 1.

VI.—PRACTICAL CHEMISTRY.

Instruction in this subject is given by Prof. Lawson in the University Laboratory, see Appendix, page 2.

VII.—BOTANY.

For particulars as to this course, see Appendix page 2.

VIII.—HISTOLOGY.

Lecturer.....ARTHUR MORROW, M.B., C.M., Edin.

This course will consist of twenty-five lectures or demonstrations on Minute Anatomy.

The methods of making sections, and of preparing and mounting specimens will be demonstrated, and concise descriptions will be given and numerous microscopic specimens shown of the different organs and tissues.

Text Books : Schafer, Klein.

HOSPITALS, Etc.

Medical students are admitted to the Victoria General Hospital, the Lying-in and Hospital Wards of the City Alms House, and to the Halifax Visiting Dispensary, on complying with the regulations of these different institutions.

EXAMINATIONS.

The *Matriculation Examination* is conducted as heretofore by the Provincial Medical Board, but now also by Dalhousie University (see p. 7 and Appendix p. 3.)

The *Degree Examinations* will be conducted altogether by the Medical Faculty of Dalhousie (see Appendix p. 5.)

The *Sessional Examinations*, previously held by the Medical College, have been abolished.

Past Session,

1887-8.

RESULTS OF EXAMINATIONS.

MATRICULATION EXAMINATION.

The following gentlemen were admitted as undergraduates at the Halifax Medical College after passing the Matriculation Examination of the Provincial Medical Board for session 1887-8 :

Name.	Residence.	Date of Exam.
Dunlop, Edward Winslow.	Sable River, Shel. Co., N. S.	Oct. 29, 1887.
Elliott, Charles Schomberg.	Stillwater, Guvsnb Co., "	" "
Frame Joseph.	Shubenacadie, Col. Co., "	" "
Fraser, J. Frank.	West River Sta., Pictou Co., N.S.	" "
Freeman, Nelson Porter.	Mill Village, Queens Co., "	" "
Gregory, George.	Churchover, Shelburne Co., "	" "
Murray, Harvey Vicars.	Truro, Colchester Co., N. S.	" "
McCharles, Roderick Wm.	Middle River, Victoria, C. B.	" "
McDonald, Daniel.	Mabou, C. B.	" "
McLeod, Roderick Campbell	Margaree, Inverness Co., C.B.	Sep. 17, "
McMahon, Frank.	Aylesford, Kings Co., N. S.	Oct. 29, "
Purcell, John M.	Halifax.	" "

PRIMARY M. D., C. M. EXAMINATION, DALHOUSIE.

Owing to special circumstances, candidates were allowed this session to go up for Examination in any of the subjects of the Primary M. D., C. M. Examination.

Extract from University Calendar.

(Names in order of merit.)

- ANATOMY (including Practical Anatomy*)—Campbell, G. M.; Walker, S. L.; Walsh, Thomas W.; Cameron, J. J.
 PHYSIOLOGY.—Campbell, C. M.; Walker, S. F.; Walsh, Thos. W.
 MATERIA MEDICA (including Therapeutics and Practical Pharmacy)
 —Cameron, J. J.; Walsh, Thomas W.
 CHEMISTRY.—Walsh, Thomas W.
 BOTANY.—McCharles, R.; Fraser, J. F.; Elliott, C. S.; Miller, C. H.; Dunlop, E. W.; and McLeod, R. C., (sq.); Gregory, George; Freeman, N. P., and McMahon, Frank (sq.); Walsh, Thomas W.

* Except in the case of Mr. Walsh.

STUDENTS OF 1887-88.

1. UNDERGRADUATES.

Preliminary Education.

Preceptor.

Residence.

Halifax.

Name.
Cameron, John J.

STUDENTS OF 1887-88.

1. UNDERGRADUATES.

Name.	Residence.	Preceptor.	Preliminary Education.
Cameron, John J.	Halifax	Dr. Fraser, Halifax	Matriculate P. B. Board, 1886.
Campbell, George M.	Halifax	Dr. Campbell	B. A. Dalhousie, 1882.
Dunlop, Edward Winslow	Sable River, Shelburne Co.	Medical College	Matriculate P. M. Board, 1887.
Elliott, Charles Schomburg	Stillwater, Guysborough Co.	"	"
Fielding, Clifford H.	Dartmouth	"	"
Frame, Joseph	Shubenacadie, Colchester Co.	"	Acadia, "
Fraser, J. Frank	West River Station, Pictou Co.	"	P. M. Board, 1887.
Freeman, Nelson Porter	Mill Village, Queens Co.	Dr. Marshall	"
Gregory, George H.	Shelburne	Dr. J. S. Morton, Shelburne	"
Miller, Charles H.	Clarence, Annapolis Co.	Medical College	"
Murray, Harvey Vignars	Truro, Colchester Co.	"	B. A. Acadia, 1887.
McCharles, Roderick William	Middle River, Victoria, C. B.	"	Matriculate P. M. Board, 1887.
McDonald, Daniel	Msabou, C. B.	"	"
McLeod, Roderick Campbell	Margaree, Inverness, C. B.	Dr. A. W. McLennan	"
McMahon, Frank	Aylesford, Kings Co.	Medical College	"
Purcell, John M.	Halifax	"	"
Silver, John Payzant	Halifax	"	"
Walker, Smith Layton	Truro	"	Matriculation and Responsa, Kings,
Walsh, Thomas W.	Halifax	"	B. A. Acadia, 1885.
		"	Matriculate, P. M. Board, 1875,

2. GENERAL STUDENTS.

Puttner, Charles H.	Halifax.
Stevens, Fred. W.	Dartmouth.

GRADUATES IN MEDICINE AND SURGERY.

(Qualifications subsequently obtained are printed in italics with the names.)

DeWolfe, G. H. H., <i>M.B.C.M., Edin.</i>	Dartmouth, N. S.	M.D.C.M. (Dal.)	1873
†Hiltz, J. W.	Chester, N. S.	"	1872
McMillan, Finlay	Sheet Harbor, N. S.	"	1872
†McRae, Wm.	Richmond, C. B.	"	1872
†Sutherland, Roderick	River John, Pictou, N. S.	"	1873
Campbell, D. A.	Halifax	"	1874
Chisholm, Donald	British Columbia.	"	1874
Moore, Edwin	Salisbury, N. B.	"	1874
Muir, Wm. S., <i>L.R.C.P.S., Edin.</i>	Truro, N. S.	"	1875
Bethune, John L.	Baddeck, Victoria, C. B.	"	1875
Bruce, W. T., B.A., Dal.	Valley, Col. Co., N. S.	"	1875
Cox, Robinson	Stewiacke, N. S.	"	1875
Lindsay, A. W. H., B.A., Dal.; <i>M.B.C.M., Ed.</i> Halifax	Halifax	"	1875
†Robert, Cassimir.....	Arichat, C. B.	"	1875
Linton, D. M.	Westville, Pictou. M.D.C.M.(H.M.C.)	1876	1876
McDonald, John.....	St. Peter's, Richmond, C.B.	"	1876
Chute, J. Rupert	Sherbrooke, Guysboro' Co.	"	1877
Densmore, J. D.	N.E. Harbor, Shelburne, N.S.	"	1877
McKenzie, K.	St John's, Newfoundland.	"	1877
Malcolm, Thomas.....	Bay of Island, Newfoundland.	"	1878
Johnson, Daniel M.	Newfoundland.	"	1878
Moore, W. B.	Kentville, Kings, N. S.	"	1878
McKay, N. E., <i>M.B., Hal.; M.R.C.S., Eng.</i> Halifax	Halifax	"	1879
Andrews, A. R.	Turks Island, B. W. I.	"	1879
McLean, J. J.	Maddox, P. E. I.	"	1880
Moseley, C. A.	Jamaica, B. W. I.	"	1880
Aitken, C. C.	Lunenburg, N. S.	"	1881
Atkinson, M. C.	Bristol, Carlton Co., N. S.	"	1881
DeMille, W. B.	Halifax	"	1882
Sponagle, J. H.	Middleton, Annapolis Co.	"	1883
Fulton, G. H., B.A., Dal.	Bristol, N. B.	"	1883
Morrison, D. N.	Freeport, Digby.	"	1883
Reid, J. W.	Rawdon Mines, Hants Co.	"	1884
Cogswell, A. W., <i>D.D.S.</i>	Halifax, N. S.	"	1884
Wier, J.	Dorchester, N. B.	"	1884
Gourley, J. M.	Sheet Har., Halifax.	"	1884
McKenzie, J.	Port Mulgrave, Guysboro' Co.	"	1884
Goodwin, F. W.	Halifax, N. S.	"	1885

GRADUATES IN PHARMACY.

Puttner, C. E.	Halifax, N. S.	Ph. M.	1879
Donovan, A. Q.	Boston, U. S. A.	"	1879
Symonds, F. A.	Halifax, N. S.	"	1882
Buckley, A. H.	Halifax, N. S.	"	1884

† Deceased.

NOTE.—From the preceding announcement it will be noticed that arrangements have been made for the teaching of the PRIMARY branches only during session, 1888-89, it is hoped, however, that next year the course will again be made complete by the resumption of the FINAL subjects of the curriculum.

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(Extract from Dalhousie College Calendar.)

Faculty of Medicine.

THE PRESIDENT, (*ex officio*).

Professor: LAWSON.

Examiners: SOMERS,

SINCLAIR,

LINDSAY,

CAMPBELL.

Secretary of the Faculty: DR. LINDSAY.

§ XXXIV.—COURSES OF INSTRUCTION.—1. Instruction is provided by the University in the following subjects of the Medical Curriculum :

I. CHEMISTRY.

Professor.....GEORGE LAWSON, PH. D., LL. D.

Daily Lectures, 11 A. M.—12 M.

With experimental demonstrations.

Part I. INORGANIC.—Objects and nature of the Science. General Principles: Chemical Affinity; Laws of Combination, by weight, by volume. The Elements. Equivalent and Atomic Numbers; Atomicity. Nomenclature; Notation; Formulae; Equations. The Non-Metallic Elements and their compounds considered in detail. The Atmosphere. Water. Methods of Water Analysis. Mineral Waters. Combustion; Respiration. Anhydrides. Acids. Manufactures of Chlorine compounds, Acids, Ammonia, &c.

The Metals: their physical and chemical characters; Classification, &c.; Salts; Bases; Acids; Radicals. The Metals and their compounds considered in detail. The Metals of the Alkalies, and the Alkali manufactures. Classification and Separation of Bases. The Alkaline Earth Metals and their compounds. Magnesium Salts; Aluminium and the Earth Metals. Constitution of Silicates. Iron, its salts, and other compounds. Reduction of Iron Ores. In discussing the Metals, special attention is given to the Salts and other compounds of Mercury, Antimony, Arsenic, Bismuth, Silver, Copper, Lead, Tin, and the methods of testing for metallic poisons, their detection in organic mixtures and tissues, and their quantitative analysis.

Part II. ORGANIC.—Theory of Organic Compounds, founded on Marsh Gas as a starting point. Functions of Organic Compounds. Principles of Classification. Saturated Hydrocarbons; Homologous Series. Monatomic Alcohols and their derivatives; Methyl Alcohol; Chloroform. Ethyl Alcohol; Ether; Nitrous Ether; Nitric Ether. Series of Saturated Hydrocarbons of Alcohols. Amines. Volatile Fatty Acids. Compound Ethers. Aldehyde. Chloral. Polyatomic

Compounds. Fats. Saponification. Polyatomic and Polybasic Acids. Sugars and Starches. Fermentation. Glucosides. The Aromatic Compounds. Benzol; Phenol; Aniline, &c. The Natural Alkaloids: of Opium; Nicotine; Quinine; Strychnine; Caffeine; Morphine, &c. Albumen. Urea. Uric Acid. Urinary Calculi and other deposits; methods of determining their chemical composition, and presence of Glucose, Albumen, &c., in urine. Analysis of Milk, Alcoholic Solutions, &c.

Text Book: Fownes' Manual of Chemistry (English or American Edition); or Greene's Edition of Wurtz's Elements.

Practical Chemistry.

Systematic Course of Testing for Bases and Acids, with special exercises. Processes for detection of Poisons, examination of Urine for Glucose, Albumen, nature of Calculi and other deposits. Sanitary Analysis.—Atmospheric Air; Water; Mineral Waters.

Text Books: Macadam's Practical Chemistry. Bowman's Medical Chemistry. Special Tables are used in the Laboratory, and reference books may be consulted in the Balance Room.

II. BOTANY.

ProfessorGEORGE LAWSON, PH. D., LL. D.

Lectures three days a week.

The Vegetable Cell: its structure and contents. Typical and Transformed Cells; Tissues, Parenchyma, Prosenchyma. Minute Structure and Development of the Root, Stem and Leaf. Structure and Development of the Flower, Fruit and Seed.

Vegetable Protoplasm: its structure, chemical character and movements; effects upon it of Light, Electricity, Irritation, Gravitation, Moisture, Gases.

Plant Growth: Relations of the plant to the soil and atmosphere. Diffusion, Osmosis, Absorption, Transpiration, Assimilation. Production of organic matter in the plant: Transmutation or Metastasis. Respiration. Vegetable Growth. Movements, of Chlorophyll, of organs (Circumnutation), Nyctitropic.

Reproduction: Fertilization. The Seed, Germination,—dependent upon moisture, free oxygen, temperature. Effects upon plants of extremes of temperature.

Classification of Plants: The Natural System of Classification. The distinctive structural characters and geographical distribution of the more important natural orders will be given, with special attention to those orders containing poisonous plants, and plants used in medicine.

Text Book: Goodale's Physiological Botany (being Vol. II. of Gray's Botanical Text Book.)

Field Book for Summer Work: Gray's Manual of Botany of the Northern States.

2. Students wishing to attend the above courses may do so either as General Students without preliminary examination,

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or as Undergraduates. In either case they must enter their names in the University Register at the beginning of the Session.

3. In other subjects the necessary classes may be attended either at the Halifax Medical College, which is affiliated to this University, or at any recognised School of Medicine.

4. Attendance on classes by those registered as General Students, or as Undergraduates of other Faculties, will not qualify for Degree Examinations in this Faculty.

For information as to courses of instruction provided at the Halifax Medical College address the Registrar, A. W. H. Lindsay, M. D., 241 Pleasant St., Halifax.

§ XXXV. THE ACADEMIC YEAR.—The Academic Year consists of one session. The session of 1888-9 will begin on Monday, Oct. 29th, and continue six months.

In order to qualify for Degree Examinations, the Medical Academic Year must include attendance on at least two courses of 100 lectures each, or one such course and two of 50.

§ XXXVI. 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.

§ XXXVII. MATRICULATION EXAMINATIONS.—1. Candidates for medical degrees must give evidence of having obtained a satisfactory general education before entering upon the course of study qualifying for the degrees, by passing either one or other of the Matriculation Examinations of this Faculty or some other examination recognized by the Senate as sufficient.

2. The following are the subjects of the Lower Matriculation Examination :

- (1.) ENGLISH LANGUAGE, including Grammar and Composition.
- (2.) LATIN, including Grammar, Translation* from specified authors, and Translation of easy passages not taken from such authors.
- (3.) ELEMENTS OF MATHEMATICS, comprising (a) Arithmetic, including Vulgar and Decimal Fractions, (b) Algebra, including Simple Equations, (c) Geometry, including the First Book of Euclid, with easy questions on the subject matter of the same.

* Latin for 1888, Cæsar, Gallic War, Book I., or Virgil, Æneid, Bk. I.

Latin for 1889, Cæsar, Gallic War, Bks. II. and III., or Virgil, Æneid, Bk. I.

Greek for 1888, Xenophon, Anabasis, Bk. III., or Symposium, (Wiman's, published by J. Allyn, Boston.)

Greek for 1889, Xenophon, Anabasis, Bk. IV., or Symposium, (as above.)

In French, Voltaire's Charles XII., Books I. and II., or Scribe's Bertrand et Raton, In German, Adler's Reader (Appleton & Co.), Zweiter Abschnitt, 1-4 and 14-17 (inclusive).

(4.) ELEMENTARY MECHANICS OF SOLIDS AND FLUIDS, comprising the Elements of Statics, Dynamics, and Hydrostatics—as treated in Blaikie's Elements of Dynamics† (Thin, Edinburgh).

(5.) One of the following subjects :

- (a) *Greek*, including translation* from the original and Grammar.
- (b) *French*, including translation* from the original and Grammar.
- (c) *German*, including translation* from the original and Grammar.
- (d) *Logic*, as in Jevons' Elementary Lessons in Logic† (Macmillan & Co.)
- (e) *Elementary Chemistry*.
- (f) *Botany*.

3. The following are the subjects of the Higher Matriculation Examination :

(1.) ENGLISH, including (a) writing a passage of English from dictation.

(b) English Composition, with the correction of sentences of bad English.

(c) Questions in English Grammar with analysis of sentences and derivation and definition of some common English words.

(d) Question in Geography and History, especially in the History of the British Islands and of English Literature.

(2.) LATIN, including Grammar and Translation of an easy passage from a Latin prose author*, and retranslation into Latin of a single passage of English (translated from a Latin author) the more difficult Latin words being given.

(3.) ARITHMETIC, the common rules including Vulgar and Decimal Fractions.

(4.) ELEMENTS OF MATHEMATICS, comprising (a) *Geometry*, Euclid, Books I. II. and III.; (b) *Algebra*, including Simple Equations.

(5.) ELEMENTS OF DYNAMICS (MECHANICS), comprising Elementary Kinematics, Statics, Kinetics and Hydrostatics, as treated in Blaikie's Elements of Dynamics† (Thin, Edinburgh).

(6 and 7.) ANY TWO of the following subjects :

(a) *Greek*, including Grammar, Translation from specified authors*, and Translation of easy English sentences into Greek prose.

(b) *French*, including Grammar, Translation from specified authors*, and translation of easy English sentences into French.

(c) *German*, including Grammar, Translation from specified authors*, and translation of easy English sentences into German.

(d) *Natural Philosophy*, as in Balfour Stewart's Elementary Physics† (Macmillan & C^s.)

(e) *Logic*, as in Jevons' Elementary Lessons in Logic† (Macmillan & Co.)

4. These examinations will be held on the 10th—13th October, 1888, in the College Hall. They will be conducted by instructors of the Arts Faculty.—Persons who wish to appear as candidates are required to give notice to the Secretary of the Faculty at least fourteen days before the date of Examination

* See footnote last page.

† These books are mentioned to show the extent of knowledge expected. Other books may of course be used by candidates.

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(stating in such notice whether they are candidates for the Lower or Higher Examination, and specifying the elective subjects in which they wish to be examined), to enter their names in the Register of Candidates, and to pay a fee of Ten Dollars.

5. The Lower Examination satisfies the requirements of the General Medical Council of Great Britain as to the preliminary examination which must be passed by persons wishing to register as medical students; the Higher Examination satisfies the requirements of the University of Edinburgh in the same respect.—Certificates will be issued to candidates showing the subjects in which they passed and the extent to which their knowledge of these subjects was tested.—For classes in the Arts Faculty in which candidates may prepare for the above Examination, (see p. 43).

6. A certificate of the possession of a University Degree in Arts or of having passed the Matriculation Examination of the Provincial Medical Board of Nova Scotia shall be considered by this University sufficient evidence of satisfactory general education.

7. The Matriculation and Sessional Examination of any chartered University or College; and also the Preliminary Examination of any Medical Licensing Board in Her Majesty's dominions will be recognized *pro tanto*.

8. Candidates who may have passed in all subjects but one, either at the University or the Nova Scotia Medical Board Matriculation Examinations, may enter as undergraduates, and will be allowed after six months to pass a Supplementary Examination in the subject in which they previously failed.

§ XXXVIII.—DEGREE EXAMINATIONS.—Candidates for the Degrees of M.D. and C.M. shall be required to pass two examinations—the Primary and the Final M.D., C.M. examinations, and to have satisfied at the dates of the examinations certain conditions as to attendance on classes, etc.

§ XXXIX.—PRIMARY M. D., C. M. EXAMINATIONS.—

1. Candidates for this examination shall be required to produce certificates to the following effect:—

(1.) Of having passed one of the Matriculation Examinations, or other examination recognized as sufficient, at least two academic years previously, and of having completed their sixteenth year at the date of passing said examination.

(2.) Of having, after passing the Matriculation or other equivalent examination, attended in the Halifax Medical College or in some School of Medicine approved by the Senate, two courses

of 100 lectures each, in each of the following subjects, viz.:—Anatomy, Chemistry, *Materia Medica* and Physiology; and two courses of instruction of the same duration in Practical Anatomy, in the course of which they shall have dissected the whole body (*i. e.*, the head and neck and upper and lower extremities) at least twice.

(3) 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, one course of instruction of fifty lessons each in each of the following subjects, viz., Botany and Practical Chemistry, and one course of twenty-five lectures or demonstrations in Histology.

(4.) Either of having after passing the Matriculation Examination, attended at the Halifax Medical College or at some College approved by the Senate, one course of instruction of fifty lessons in Practical Pharmacy, or of having had three months' practice in the dispensing of drugs with a recognized apothecary or dispensing medical practitioner.

2. Candidates shall be required to pass written and oral examinations in Chemistry (including Practical Chemistry), Botany, Anatomy (including Practical Anatomy and Histology) Physiology and *Materia Medica* (including Practical Pharmacy).

3. Candidates may appear for examination in Botany one academic year after passing the Matriculation Examination on presentation of the certificates specified above so far as they apply to this subject.

4. The Primary M.D., C.M. Examinations will be held in the third week in April. Candidates are required to transmit the certificates specified above to the Secretary of the Faculty at least fourteen 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 half the amount of the graduation fee. Should the candidate fail to pass, the fee will not be returned to him, but he will be admitted to any one subsequent Primary Examination without fee.

§ XL.—FINAL M. D., C. M. EXAMINATIONS.—1. Candidates for this examination shall be required to furnish certificates to the following effect, viz.:—

(1.) That they have completed their twenty-first year or that they will have done so on or before the day of graduation. This certificate shall be signed by themselves.

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(2.) Of having passed the Primary M. D., C. M. Examination at this University, or of having passed the same examination at the Halifax Medical College prior to its affiliation with this University, or of having been admitted to the standing of an under-graduate who has passed this examination on certificates from recognised medical schools.

(3.) Of either (a) having attended during four academic years at least two courses of lectures per year in subjects of the Primary and Final M. D., C. M. Examination either in this University or at the Halifax Medical College, or at some other recognised Medical School, or (b) having spent one calendar year in the study of Medicine in the office or offices of one or more registered medical practitioners, and having subsequently attended during three academic years courses of lectures as above.

(4.) Of having attended at least two courses of lectures during at least one academic year at the Halifax Medical College, and of having paid the fees for one course of lectures in each of the subjects of the M. D., C. M. Examination at that College.

(5.) Of having, after passing the Matriculation Examination, attended at the Halifax Medical College, or at some School of Medicine approved by the Senate, two courses of 100 lectures each in each of the following subjects, viz. :— Principles and Practice of Surgery, Obstetrics and Diseases of Women and Children, and Principles and Practice of Medicine; two courses of lectures of fifty lectures each in each of the following subjects, viz. :—Clinical Medicine and Clinical Surgery; and one course of fifty lectures in Medical Jurisprudence.

(6.) Of having, after passing the Matriculation Examination, attended during one calendar year the practice of the Victoria General Hospital, or that of some other Hospital approved by the Senate.

(7.) Of having attended for at least six months the practice of a lying-in hospital, approved by the Senate, or of having attended at least six cases of midwifery under a recognised practitioner.

(8.) Of having obtained proficiency in the practice of Vaccination under a recognised practitioner.

2. Candidates will be required to pass written and oral examinations in the following subjects:—Principles and Practice of Medicine, Obstetrics and Diseases of Women and Children, Principles and Practice of Surgery, and Medical Jurisprudence. The oral examinations in Medicine and Surgery shall include clinical examinations conducted at the bedside, cases being submitted for diagnosis and treatment.

3. Candidates may appear for examination in Medical Jurisprudence alone, three academic years after passing the Matriculation Examination, on presentation of the certificates specified above so far as they apply to this subject.

4. This Examination will be held in the third week in April. Candidates are required to transmit the certificates specified above to the Secretary of the Faculty at least fourteen days before the date of the Examination, to enter their names in the register of under-graduates before the date of the examination, and to pay before the date of the examination one-half of the amount of the graduation fee. Should the candidate fail to pass, the fee will not be returned to him, but he will be admitted to any one subsequent Final Examination without fee.

§ XLI. **ACADEMIC COSTUME.**—1. Doctors of Medicine of this University shall be entitled to wear black stuff gowns and hoods. The hoods shall have a lining of scarlet silk bordered with white silk.

2. Successful candidates for this degree shall be required to appear at Convocation in academic costume to have the degree conferred upon them. Degrees shall not be conferred in the absence of the candidate, except by special permission of the Senate.

§ XLII. **FEES.**—The following fees, payable by candidates for the degree of M. D., C. M., are in all cases payable in advance:—

Registration Fee.....	\$ 2 00
Matriculation Examination Fee.....	10 00
Chemistry Class Fee.....	12 00
Chemistry Laboratory Fee (three months' course)	6 00
Botany Class Fee.....	6 00
Graduation Fee.....	20 00

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