

A. McCallum Bell

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**McGill University.**

**ABRIDGED CALENDAR**

**1888-89.**

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## ADDENDA AND SPECIAL NOTICES.

Since the printing of the earlier pages, changes have occurred in the personnel of the University, which will appear in the complete Calendar.

**FACULTY OF ARTS.**—Attention is requested to the new regulation respecting *French* on p. 70, and to those relating to *June Examinations* for entrance (one 3rd, and following days), pp. 29, 32 and 131. Schools not in the Province of Quebec, desiring to have candidates examined locally, should apply to the Secretary before May 1st, stating the names of gentlemen willing to act as Deputy Examiners. Changes made in relation to *Honour Studies* are stated in pp. 45, 47.

No definite announcement can yet be made respecting the contemplated *College for Women*; but the *Donalds Special Course* will be continued under the existing regulations, providing separate classes in all respects similar to those for men, and leading to the degree of B.A. The *Trafalgar Institute* has made arrangements to give special attention to pupils from the country desiring to prepare for the college classes.

**FACULTY OF APPLIED SCIENCE.**—It is expected that the classes will be opened next session in new and commodious class-rooms in the East wing of the College Building. For June Matriculation in Applied Science, see p. 91.

**FACULTY OF MEDICINE.**—The special attention of intending students is requested to the various requirements of Provincial Boards as to examination for entrance to study. (See pp. 98 et seq.) Those having any doubts as to these requirements, may communicate with the Secretary of the Faculty, Dr. Stewart, 873 Dorchester street, Montreal.

**FACULTY OF LAW.**—Certain changes will be made in the hours of Lecture for the convenience of students, and it is expected that more convenient class-rooms will be secured. The special attention of young men preparing for business or engaged therein, is invited to the provisions for admitting *Occasional Students*.

**SCHOOL EXAMINATIONS.**—These are now imperative on all Academies and High Schools in the Province of Quebec. Information additional to that on p. 131 et seq., can be obtained from Rev. E. I. Rexford, Education Office, Quebec. Schools not in Quebec and private schools, should communicate with the Secretary of the University.

**AFFILIATED THEOLOGICAL COLLEGES.**—All information respecting these, and also respecting the exemptions from fees granted to their students in the University, may be obtained of their Principals.

**MCGILL NORMAL SCHOOL.**—Attention is directed to the new arrangement for Academy Diplomas, whereby students having passed the examinations in the Model School class, and recommended by the Principal, may enter in the first year of the University course. All information may be obtained of Dr. Robins, Principal of the Normal School, Belmont street, Montreal.

Where any doubt exists as to any of the provisions of the calendar, the necessary directions may be obtained on application to the Principal or Secretary, or to the proper officers representing the several Faculties and Affiliated Colleges and Schools.

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*Hubert Bell  
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Oct. '88.*

ANNUAL CALENDAR

OF

MCGILL COLLEGE

AND

UNIVERSITY,

MONTREAL.



FOUNDED UNDER BEQUEST OF THE HON. JAMES MCGILL,  
ERECTED INTO A UNIVERSITY BY ROYAL CHARTER  
IN 1821, AND RE-ORGANIZED BY AN  
AMENDED CHARTER IN 1852.

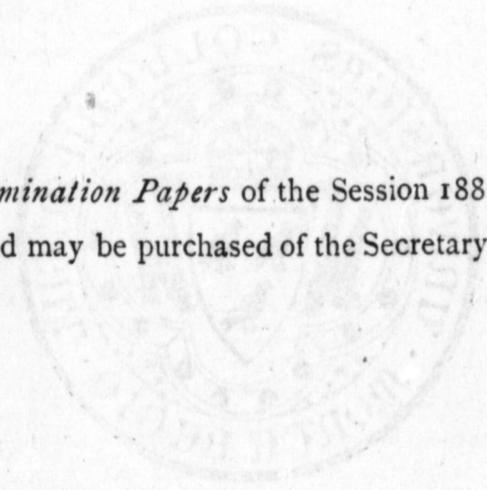
SESSION 1888-9.

**Montreal :**

PRINTED FOR THE UNIVERSITY BY JOHN LOVELL & SON.

1888.

McGILL COLLEGE  
UNIVERSITY  
MONTREAL



The *Examination Papers* of the Session 1887-88 are published separately, and may be purchased of the Secretary, or through booksellers.



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# Governing Body of the University.

## VISITOR:

HIS EXCELLENCY THE RIGHT HON. THE MARQUIS OF  
LANSDOWNE, G.C.M.G.,  
GOVERNOR GENERAL OF CANADA, &c.

## GOVERNORS:

[*Being the Members of the Royal Institution for the Advancement of Learning.*]

THE HON. JAMES FERRIER, SENATOR, M.L.C., President and Chancellor of the University.

PETER REDPATH, Esq.

JOHN H. R. MOLSON, Esq.

THE HON. SIR ALEXANDER T. GALT, K.C.M.G.

JOHN MOLSON, Esq.

JOSEPH HICKSON, Esq.

THE HON. JOHN J. C. ABBOTT, D.C.L., Q.C.

WILLIAM C. McDONALD, Esq.

HUGH McLENNAN, Esq.

GEORGE HAGUE, Esq.

THE HON. SIR DONALD A. SMITH, K.C.M.G., LL.D. (Hon. Cantab.)

EDWARD B. GREENSHIELDS, B.A.

SAMUEL FINLEY, Esq.

(The Board of Governors has, under the Royal Charter, the power to frame Statutes, to make Appointments, and to administer the Finances of the University.)

## PRINCIPAL.

SIR WILLIAM DAWSON, C.M.G., M.A., LL.D., F.R.S., *Vice-Chancellor.*

(The Principal has, under the Statutes, the general superintendence of all affairs of the College and University, under such regulations as may be in force.)

## FELLOWS:

ALEXANDER JOHNSON, M.A., LL.D., Vice-Principal and Dean of the Faculty of Arts.

HENRY ASPINWALL HOWE, LL.D., Governors' Fellow.

REV. JOHN COOK, D.D., Principal of Morrin College, Quebec.

REV. GEORGE CORNISH, M.A., LL.D., Elective Fellow, Faculty of Arts.  
 REV. D. H. MACVICAR, D.D., LL.D., Principal of the Presbyterian College,  
 Montreal.  
 JOHN REDPATH DOUGALL, M.A., Representative Fellow in Arts.  
 REV. J. CLARK MURRAY, LL.D., Elective Fellow, Faculty of Arts.  
 HENRY T. BOVEY, M.A., C.E., Dean of the Faculty of Applied Science.  
 BERNARD J. HARRINGTON, B.A., Ph. D., F.G.S., Elective Fellow, Fac.  
 App. Science.  
 REV. E. I. REXFORD, B.A., Governors' Fellow.  
 REV. JOHN JENKINS, D.D., LL.D., Governors' Fellow.  
 REV. CANON HENDERSON, M.A., D.D. (Dublin), Principal of the Montreal  
 Diocesan Theological College.  
 REV. GEORGE DOUGLASS, LL.D., Principal of the Montreal Wesleyan  
 Theological College.  
 J. S. ARCHIBALD, M.A., D.C.L., Elective Fellow, Faculty of Law.  
 GEORGE ROSS, M.A., M.D., Elective Fellow, Faculty of Medicine.  
 JOHN S. HALL, B.A., B.C.L., Representative Fellow in Law.  
 REV. R. W. NORMAN, M.A., D.C.L., Governors' Fellow.  
 R. P. HOWARD, M.D., LL.D., Dean of Faculty of Medicine.  
 S. P. ROBINS, M.A., LL.D., Principal of McGill Normal School.  
 FREDERICK W. KELLEY, B.A., Ph.D. (Cornell), Representative Fellow in  
 Arts.  
 REV. JAMES BARCLAY, M.A. (Glasgow), Governors' Fellow.  
 ROBERT CRAIK, M.D., Representative Fellow in Medicine.  
 A. W. BANNISTER, M.A., (Victoria), Principal of St. Francis College.  
 THOMAS A. ROGERS, M.D., Representative Fellow in Medicine.  
 JEFFREY H. BURLAND, B.A. Sc., Representative Fellow in App. Science.  
 MATTHEW HUTCHINSON, D.C.L., Representative Fellow in Law.  
 WILFRED T. SKAIFE, B.A. Sc., Representative Fellow in App. Science.  
 REV. WILLIAM M. BARBOUR, D.D. (Yale, U.S.), Principal of the Con-  
 gregational College of British North America.  
 N. W. TRENHOLME, M.A., D.C.L., Dean of the Faculty of Law.

(The Governors, Principal and Fellows constitute, under the Charter, the Corporation of the University, which has the power, under the Statutes, to frame regulations touching the Courses of Study, Matriculation, Graduation and other Educational matters; and to grant Degrees.)

OFFICE OF SECRETARY, REGISTRAR AND BURSAR :—

[*And Secretary of the Royal Institution.*]

JAMES W. BRAKENRIDGE, B.C.L., Acting Secretary, Office East Wing, McGill  
 College; Residence, 117 Shuter Street.

OFFICE HOURS: 9 TO 5.

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## Professors Emeriti.

[Retaining their Rank and Titles, but retired from the active work of Instruction.]

HENRY ASPINWALL HOWE, LL.D.

*Emeritus Professor in the Faculty of Arts.*

WILLIAM WRIGHT, M.D.

*Emeritus Professor in the Faculty of Medicine.*

HON. WILLIAM BADGLEY, D.C.L.

*Emeritus Professor in the Faculty of Law.*

HON. R. G. LAFLAMME, D.C.L., Q.C.

*Emeritus Professor in the Faculty of Law.*

D. C. McCALLUM, M.D.

*Emeritus Professor in the Faculty of Medicine.*

ROBERT CRAIK, M.D.

*Emeritus Professor in the Faculty of Medicine.*

HON. J. S. C. WURTELE, D.C.L., Q.C.

*Emeritus Professor in the Faculty of Law.*

HON. H. F. RAINVILLE, LL.D. (Laval.)

*Emeritus Professor in the Faculty of Law.*

## Officers of Instruction.

- SIR WILLIAM DAWSON, M.A., LL.D., F.R.S., C.M.G.  
*Principal, Logan Professor of Geology and Professor of Natural History.* East Wing, McGill College.
- ROBERT P. HOWARD, M.D., LL.D.  
*Dean of the Faculty of Medicine, Professor of the Theory and Practice of Medicine.* 47 Union Avenue.
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*Professor of German Language and Literature.* McGill College.
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*Professor of Mathematics, and Peter Redpath Professor of Natural Philosophy, Vice-Principal and Dean of the Faculty of Arts.* 5 Prince of Wales Terrace.
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*Professor of Surgery.* 1404 St. Catherine Street.
- N. W. TRENHOLME, M.A., D.C.L.  
*Dean of the Faculty of Law, and Professor of International Law.* Dorchester Av., Coré St. Antoine.
- GILBERT P. GIRDWOOD, M.D.  
*Professor of Chemistry, Faculty of Medicine.* 55 Beaver Hall Hill.
- REV. J. CLARK MURRAY, LL.D. (Glasgow).  
*Professor of Logic, and John Frothingham Professor of Mental and Moral Philosophy.* 111 Mackay Street.
- GEORGE ROSS, M.A., M.D.  
*Professor of Clinical Medicine.* 49 Union Avenue.
- BERNARD J. HARRINGTON, B.A., Ph.D., F.G.S.  
*David Y. Greenshields Professor of Chemistry and Mineralogy, and Lecturer in Assaying and Mining.* Wallbrae Pl., off 256 Univ. St.
- THOMAS G. RODDICK, M.D.  
*Professor of Clinical Surgery.* 80 Union Avenue.
- WILLIAM GARDNER, M.D.  
*Professor of Gynæcology.* 109 Union Avenue.
- HENRY T. BOVEY, M.A., A.M.I.C.E., M.I.M.E., Fellow Queen's College, Cambridge.  
*Dean of the Faculty of Applied Science, Professor of Civil Engineering and Applied Mechanics.* 31 Ontario Avenue.

CHARLES  
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EDMOND  
*Profe.*

MATTHEW  
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J. EMERY  
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C. H. McLI  
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FRANCIS J.  
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FRANK BU  
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JAMES STE  
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GEORGE WI  
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D. F. PENH.  
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G. H. CHAN  
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T. WESLEY  
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JAMES C. C.  
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REV. DANIEL  
*Profe.*

A. J. EATON  
*Assistan*

ARCHIBALD  
*Profe.*

LEWIS A. HA  
*Lecturer*

Pr

PAUL T. LAF  
*Lecturer*

WILLIAM R.  
*Curator*

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*Molson Professor of English Language and Literature,*  
*Lecturer in History.* 802 Sherbrooke.
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*Professor of Roman Law.* Olivier Street, Cote St. Antoine.
- J. EMERY ROBIDOUX, D.C.L.  
*Professor of Real Estate Law.* 216 St. Denis Street.
- C. H. McLEOD, Ma.E.  
*Professor of Descriptive Geometry and Superintendent of*  
*Meteorological Observatory.* Observatory McGill College.
- LEONIDAS HEBER DAVIDSON, M.A., D.C.L.  
*Professor of Commercial Law.* 17 St. Luke Street, or 194 St. James.
- FRANCIS J. SHEPHERD, M.D.  
*Professor of Anatomy.* 85 Mansfield Street.
- FRANK BULLER, M.D.  
*Professor of Ophthalmology and Otology.* 838 Dorchester Street.
- JAMES STEWART, M.D.  
*Professor of Materia Medica and Therapeutics.* 873 Dorchester Street.
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*Professor of Medical Jurisprudence and Lecturer in Histology.* 8 Dorchester Street.
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- G. H. CHANDLER, M.A.  
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*Science, Lecturer in Mathematics Faculty of Arts,*  
*and Assistant Superintendent of Observatory.* 32 Lorne Avenue.
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*Professor of Physiology.* 5 Essex Avenue.
- JAMES C. CAMERON, M.D.  
*Professor of Midwifery and Diseases of Children.* 43 Belmont Street.
- REV. DANIEL COUSSIRAT, B.A., *Officier d'Academie.*  
*Professor of Hebrew and Oriental Literature.* 106 Shuter Street.
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*Assistant Professor of Classics.* 49 Durocher Street.
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*Professor of Civil Procedure.* 115 Mansfield Street.
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*Lecturer on the Theory and Practice of Notarial Deeds and*  
*Proceedings.* 1679 St. Catherine Street.
- PAUL T. LAFLEUR, B.A.  
*Lecturer in Logic and English.* McGill College.
- WILLIAM R. SUTHERLAND, M.D.  
*Curator of Medical Museum and Asst. Dem. of Anatomy.* 764 Sherbrooke Street.

JOHN ANDREW. <i>Instructor in Elocution.</i>	64 Roy Street.
FREDERICK S. BARNJUM. <i>Instructor in Gymnastics.</i>	19 University Street.
GEORGE W. MAJOR, B.A., M.D. <i>Instructor in Laryngology.</i>	82 Union Avenue.
ALEXANDER D. BLACKADER, B.A., M.D. <i>Instructor in Diseases of Children.</i>	70 Beaver Hall Hill.
ROBERT J. B. HOWARD, B.A., M.D. <i>Assistant Demonstrator of Anatomy.</i>	47 Union Avenue.
WYATT G. JOHNSTON, M.D. <i>Demonstrator of Pathology.</i>	71 Beaver Hall Hill.
R. T. RUTTAN, B.A., M.D. <i>Assistant to Professor of Chemistry, Medical Faculty.</i>	71 Beaver Hall Hill.
JAMES BELL, M.D. <i>Assistant to Chair of Clinical Surgery.</i>	59 Beaver Hall Hill.
NEVIL N. EVANS, B.A., Sc. <i>Assistant to Professor of Chemistry, Arts and Applied Science.</i>	21 Milton Street.

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LIBRARY.

*Library Assistant, Mr. H. Mott, Library, McGill College.*

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# General Statement.

SESSION OF 1888-9.

The Fifty-sixth Session of the University, being the Thirty-fifth under the amended Charter, will commence in the Autumn of 1888.

By Virtue of the Royal Charter, granted in 1821 and amended in 1852, the Governors, Principal and Fellows of McGill College constitute the Corporation of the University; and, under the Statutes framed by the Board of Governors, with approval of the Visitor, have the power of granting Degrees in all the Arts and Faculties, in McGill College, and Colleges affiliated thereto.

The Statutes and Regulations of the University have been framed on the most liberal principles, with the view of affording to all classes of persons the greatest possible facilities for the attainment of mental culture and professional training. In its religious character the University is Protestant, but not denominational; and while all possible attention will be given to the character and conduct of students, no interference with their peculiar religious views will be sanctioned.

The educational work of the University is carried on in McGill College, Montreal, and in the Affiliated Colleges and Schools.

## I. MCGILL COLLEGE.

**THE FACULTY OF ARTS.**—The complete course of study extends over four Sessions, of eight months each; and includes Classics and Mathematics, Experimental Physics, English Literature, Logic, Mental and Moral Science, Natural Science, and one Modern Language or Hebrew. The course of study is, with few exceptions, the same for all students in the first two years; but in the third and fourth years extensive options are allowed, more especially in favour of the Honour Courses in Classics, Mathematics, Mental and Moral Science, Natural Science, English Literature and Modern Languages. Certain exemptions are also allowed to professional Students. The course of study leads to the Degrees of B.A., M.A., and LL.D.

**THE DONALDA SPECIAL COURSE IN ARTS** provides for the education of women, in separate classes, with course of study, exemptions and honours similar to those for men.

**THE FACULTY OF APPLIED SCIENCE** provides a thorough professional training, extending over three or four years, in Civil Engineering, Mechanical Engineering, Mining Engineering and Assaying, and Practical Chemistry, leading to the Degrees of Bachelor of Applied Science, Master of Engineering, and Master of Applied Science.

**THE FACULTY OF MEDICINE.**—The complete course of study in Medicine extends over four Sessions, of six months each, and one Summer Session of three months in the third Academic Year, and leads to the Degree of M.D., C.M.

**THE FACULTY OF LAW.**—The complete course in Law extends over three Sessions, of six months each, and leads to the Degrees of B.C.L. and D.C.L.

## II. AFFILIATED COLLEGES.

Students of Affiliated Colleges are matriculated in the University, and may pursue their course of study wholly in the Affiliated College, or in part in McGill College, and may come up to the University Examinations on the same terms with the Students of McGill College.

**MORRIN COLLEGE, Quebec.**—Is affiliated in so far as regards Degrees in Arts and Law.

[Detailed information may be obtained from REV. JOHN COOK, D.D., Principal.]

ST. FRANCIS COLLEGE, *Richmond*.—Is affiliated in so far as regards the Intermediate Examinations in Arts.

[Detailed information may be obtained from PRINCIPAL BANNISTER, B.A., Richmond, P.Q.]

### III. AFFILIATED THEOLOGICAL COLLEGES.

Affiliated Theological Colleges have the right of obtaining for their Students the advantage, in whole or in part, of the course of study in Arts, with such facilities in regard to exemptions as may be agreed on, and a number of Free Taitions are granted by the Board of Governors to the Students of these Colleges, when matriculated in Arts.

THE CONGREGATIONAL COLLEGE OF BRITISH NORTH AMERICA, *Montreal*.  
Principal, REV. WILLIAM M. BARBOUR, D.D., 58 McTavish St.

THE PRESBYTERIAN COLLEGE, MONTREAL, in connection with the Presbyterian Church in Canada. Principal, REV. D. H. MACVICAR, D.D., LL.D., 69 McTavish St.

THE DIOCESAN COLLEGE OF MONTREAL. Principal, REV. CANON HENDERSON, M.A., D.D., 896 Dorchester St.

THE WESLEYAN COLLEGE OF MONTREAL. Principal, REV. GEORGE DOUGLASS, LL.D., 228 University St.

[Calendars of the above Colleges and all necessary information may be obtained on application to their Principals.]

### IV. MCGILL NORMAL SCHOOL.

THE MCGILL NORMAL SCHOOL provides the training requisite for Teachers of Elementary and Model Schools and Academies. Teachers trained in this School are entitled to Provincial Diplomas, and may, on conditions stated in the announcement of the School, enter the classes in the Faculty of Arts for Academy Diplomas and for the degree of B.A. Principal, S. P. ROBINS, LL.D., 30 Belmont St., Montreal.

### V. AFFILIATED HIGH SCHOOLS, ETC.

#### 1. *By special vote of the Corporation and Governors.*

(THE TRAFALGAR INSTITUTE for the higher education of women, Simpson St., Montreal. Principal, Miss Grace Fairley.

THE HIGH SCHOOL OF MONTREAL, Metcalfe St. Principal, H. Aspinwall Howe, LL.D.

THE GIRLS' HIGH SCHOOL OF MONTREAL, Metcalfe St. Lady Principal, Mrs. H. H. Fuller.

KNOWLTON ACADEMY, Knowlton, P.Q.

2. *Under the Regulation respecting Schools which have creditably prepared pupils for the diploma of Associate in Arts and for Matriculation.*

Prince of Wales College, Charlottetown, P.E.I.; Bishop's College School, Lennoxville; St. Francis College School; Lachute Academy; Misses Symmers and Smith's School, Montreal; Ladies' Academy, Sherbrooke; Mrs. Watson's School, Montreal; Stanstead Wesleyan College; Inverness Academy; Huntingdon Academy; Waterloo Academy; Compton Ladies' College.

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31 Wednesday

# ACADEMICAL YEAR 1888-89.

## SEPTEMBER, 1888.

1 Saturday	
2 SUNDAY	
3 Monday	Normal School opens.
4 Tuesday	
5 Wednesday	Meeting of Normal School Committee.
6 Thursday	
7 Friday	
8 Saturday	
9 SUNDAY	
10 Monday	
11 Tuesday	
12 Wednesday	
13 Thursday	
14 Friday	
15 Saturday	
16 SUNDAY	
17 Monday	Mat. and Sup. Ex'n's in Classics Exhib. and Scholarship Exam.
18 Tuesday	Mat. and Sup. Ex'n's in Math's Exhib. & Scholarship Exam.
19 Wednesday	Mat. & Sup. Ex'n's in English, Logic, Men. and Mor. Phil. Exhib. and Sch. Exm'n's.
20 Thursday	Mat. & Sup. Ex'n's in Modern Lang's and Nat. Sc.; Exhib. and Sch. Exam'n's.
21 Friday	Exhib. and Sch. Ex'n's. Lect's in Arts and App. Sc. begin.
22 Saturday	Meeting of Governors.
23 SUNDAY	
24 Monday	Meeting of Faculty of Arts.
25 Tuesday	
26 Wednesday	
27 Thursday	Summer Essays in Applied Sc.
28 Friday	Matric. Exams. in Med. Register Med. Fac. opens.
29 Saturday	
30 SUNDAY	

## NOVEMBER, 1888.

1 Thursday	
2 Friday	Meeting of Faculty of Arts.
3 Saturday	
4 SUNDAY	
5 Monday	
6 Tuesday	Meeting of Fac. App. Science.
7 Wednesday	Meeting Normal School Com.
8 Thursday	
9 Friday	
10 Saturday	
11 SUNDAY	
12 Monday	
13 Tuesday	
14 Wednesday	
15 Thursday	
16 Friday	
17 Saturday	
18 SUNDAY	
19 Monday	
20 Tuesday	
21 Wednesday	
22 Thursday	
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25 SUNDAY	
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28 Wednesday	
29 Thursday	
30 Friday	

*Thanksgiving Day.*  
*Meeting of Faculty of Arts. To be held in the new building. See about room, board, studios, etc. -*

*Begin lectures and studies. -*

*Have moved into rooms. -*

*Became board of the Lib. Society. Meeting of the Lib. Society.*

*Meeting of Governors*

*Monthly meeting of the History Society.*

*Meeting of Faculty of Arts. Last meeting of the Under-Graduates Literary Society.*

## OCTOBER, 1888.

1 Monday	Session of Medical and Law Faculties begins.
2 Tuesday	Meeting of Fac. of App. Sec.
3 Wednesday	Meeting Nor. Sch. Committee.
4 Thursday	
5 Friday	Meeting Faculty of Arts.
6 Saturday	Founder's Birthd'y.
7 SUNDAY	The William Molson Hall opened 1862.
8 Monday	
9 Tuesday	
10 Wednesday	
11 Thursday	
12 Friday	
13 Saturday	
14 SUNDAY	
15 Monday	
16 Tuesday	
17 Wednesday	
18 Thursday	
19 Friday	
20 Saturday	
21 SUNDAY	
22 Monday	Meeting of Faculty of Arts.
23 Tuesday	
24 Wednesday	Meeting of Museum Com.
25 Thursday	Meeting of Library Com.
26 Friday	Regular Meeting of Corporation
27 Saturday	School Exam's app'd. Reps. on Schol. & Exh. Ac. audited.
28 SUNDAY	Meeting of Governors.
29 Monday	
30 Tuesday	
31 Wednesday	

## DECEMBER, 1888.

1 Saturday	
2 SUNDAY	
3 Monday	
4 Tuesday	Meeting of Faculty of App. Sc.
5 Wednesday	Meeting of Nor. Sch. Comm.
6 Thursday	
7 Friday	
8 Saturday	
9 SUNDAY	
10 Monday	
11 Tuesday	
12 Wednesday	
13 Thursday	
14 Friday	
15 Saturday	
16 SUNDAY	
17 Monday	Meeting of Fac. of Arts. Lectures in Arts and Ap. Sc. end.
18 Tuesday	Exam. Bot. Med. Studs. Examinations in Law.
19 Wednesday	
20 Thursday	
21 Friday	
22 Saturday	Examinations in Law. Christmas Examinations begin. Examinations in Law.
23 SUNDAY	
24 Monday	Examinations in Law. Christmas Vacation begins.
25 Tuesday	Meeting of Governors.
26 Wednesday	
27 Thursday	
28 Friday	
29 Saturday	
30 SUNDAY	
31 Monday	Christmas-Day.

*Ann. Co. etc.*

JANUARY, 1889.

1 Tuesday	
2 Wednesday	
3 Thursday	
4 Friday	Christmas Vacation ends.
5 Saturday	<i>Return to school</i>
<b>6 SUNDAY</b>	
7 Monday	Lectures in Arts, Law, Med. & App. Sci. recommence, Meeting of Fac. of App. Sci. Meeting of Nor. Sch. Comm.
8 Tuesday	
9 Wednesday	
10 Thursday	
11 Friday	Meeting of Faculty of Arts.
12 Saturday	
<b>13 SUNDAY</b>	
14 Monday	
15 Tuesday	
16 Wednesday	
17 Thursday	Meeting of Faculty of Arts.
18 Friday	
19 Saturday	
<b>20 SUNDAY</b>	
21 Monday	Meeting of Museum Com.
22 Tuesday	Meeting of Library Com.
23 Wednesday	Regular Meet'g of Corporation.
24 Thursday	Examiners appointed. Annual Report to Visitor.
25 Friday	Meeting of Governors.
26 Saturday	
<b>27 SUNDAY</b>	
28 Monday	
29 Tuesday	
30 Wednesday	
31 Thursday	Theses for M.A. & LL.D. to be sent in to the Dean of Faculty of Arts.

FEBRUARY, 1889.

1 Friday	Theses for Deg. of B.C.L. to be sent in to Dean of Fac. of Law
2 Saturday	Meeting of Examiners, Meeting of Faculty of Arts.
<b>3 SUNDAY</b>	
4 Monday	Meeting of Fac. App. Science.
5 Tuesday	Meeting of Nor. Sch. Comm.
6 Wednesday	
7 Thursday	
8 Friday	
9 Saturday	
<b>10 SUNDAY</b>	
11 Monday	
12 Tuesday	
13 Wednesday	
14 Thursday	
15 Friday	Meeting of Faculty of Arts.
16 Saturday	Supplemental Exam's in Arts and Applied Science.
<b>17 SUNDAY</b>	
18 Monday	
19 Tuesday	
20 Wednesday	
21 Thursday	
22 Friday	
23 Saturday	Meeting of Governors.
<b>24 SUNDAY</b>	
25 Monday	
26 Tuesday	Theses for Degree of B.C.L. to be sent in to Dean of Faculty
27 Wednesday	
28 Thursday	

MARCH, 1889.

1 Friday	Theses for degree of B.C.L. to be sent in to Dean of Faculty. Meeting of Faculty of Arts.
2 Saturday	
<b>3 SUNDAY</b>	
4 Monday	
5 Tuesday	Meeting of Fac. of Ap. Science.
6 Wednesday	No Lectures. Meeting of Nor. Sc. Com.
7 Thursday	
8 Friday	
9 Saturday	
<b>10 SUNDAY</b>	
11 Monday	
12 Tuesday	
13 Wednesday	
14 Thursday	
15 Friday	Meeting of Fac. of Arts.
16 Saturday	Examinations in Law, and Botany Med. Fac.
<b>17 SUNDAY</b>	
18 Monday	Meeting Fac. App. Sci.
19 Tuesday	Lectures in Medicine end.
20 Wednesday	Exam's in Med. begin.
21 Thursday	Meeting of Fac. of Arts. / Reports of Attendance on Lects.
22 Friday	Meeting of Governors.
23 Saturday	
<b>24 SUNDAY</b>	
25 Monday	
26 Tuesday	
27 Wednesday	
28 Thursday	Lects. in Arts and Ap. Sc. end.
29 Friday	
30 Saturday	Convocation for Degrees in Med.
<b>31 SUNDAY</b>	

APRIL, 1889.

1 Monday	
2 Tuesday	Meeting of Fac. of Ap. Science
3 Wednesday	Meeting of Nor. Sc. Committee
4 Thursday	
5 Friday	
6 Saturday	
<b>7 SUNDAY</b>	
8 Monday	Sumr. Session Med. Fac. begins
9 Tuesday	
10 Wednesday	Meeting of Examiners.
11 Thursday	
12 Friday	Meeting of Fac. of Arts.
13 Saturday	
<b>14 SUNDAY</b>	
15 Monday	
16 Tuesday	
17 Wednesday	
18 Thursday	
19 Friday	Good Friday. Easter Vcn. begins
20 Saturday	
<b>21 SUNDAY</b>	Easter.
22 Monday	Meeting of Museum Committee
23 Tuesday	Meeting of Library Committee
24 Wednesday	Easter vacation ends. Regular meeting of Corporation.
25 Thursday	
26 Friday	Meeting of Examiners, & of Fac. Arts.
27 Saturday	Declaration of result of Exam's. Meeting of Governors.
<b>28 SUNDAY</b>	
29 Monday	Convocation for Degrees in Law and Applied Science.
30 Tuesday	Convocation for Degrees in Arts.

1 Wednesday	
2 Thursday	
3 Friday	
4 Saturday	
<b>5 SUNDAY</b>	
6 Monday	
7 Tuesday	
8 Wednesday	
9 Thursday	
10 Friday	
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<b>12 SUNDAY</b>	
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<b>26 SUNDAY</b>	
27 Monday	
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29 Wednesday	
30 Thursday	
31 Friday	

degree of B.C.L. to be  
to Dean of Faculty.  
of Faculty of Arts.

Fac. of Ap. Science.  
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Degrees in Law  
Science.  
for Degrees in

MAY, 1889.

- 1 Wednesday
- 2 Thursday
- 3 Friday
- 4 Saturday
- 5 SUNDAY
- 6 Monday
- 7 Tuesday
- 8 Wednesday
- 9 Thursday
- 10 Friday
- 11 Saturday
- 12 SUNDAY
- 13 Monday
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- 15 Wednesday
- 16 Thursday
- 17 Friday
- 18 Saturday
- 19 SUNDAY
- 20 Monday
- 21 Tuesday
- 22 Wednesday
- 23 Thursday
- 24 Friday
- 25 Saturday
- 26 SUNDAY
- 27 Monday
- 28 Tuesday
- 29 Wednesday
- 30 Thursday
- 31 Friday

Exam's. in Nor. School begin.  
Meeting Nor. Sch. Committee.

Meeting of Examiners for Sch.  
Examinations.

Queen's Birthday.  
Meeting of Governors.

Normal Sch. closes for Summer  
Vacation.

JULY, 1889.

- 1 Monday
- 2 Tuesday
- 3 Wednesday
- 4 Thursday
- 5 Friday
- 6 Saturday
- 7 SUNDAY
- 8 Monday
- 9 Tuesday
- 10 Wednesday
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- 21 SUNDAY
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- 26 Friday
- 27 Saturday
- 28 SUNDAY
- 29 Monday
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- 31 Wednesday

JUNE, 1889.

- 1 Saturday
- 2 SUNDAY
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- 22 Saturday
- 23 SUNDAY
- 24 Monday
- 25 Tuesday
- 26 Wednesday
- 27 Thursday
- 28 Friday
- 29 Saturday
- 30 SUNDAY

Examinations for Certificate of  
Associate in Arts begin.

Normal School Committee.

Whit-Sunday.

Declaration of results of School  
Examinations.

Trinity Sunday.

Meeting of Governors.

Meeting of Museum Committee.  
Meeting of Library Committee.  
Regular Meeting of Corporat'n.  
Report of Normal School.

Summr. Sessn. Med. Fac. ends.

AUGUST, 1889.

- 1 Thursday
- 2 Friday
- 3 Saturday
- 4 SUNDAY
- 5 Monday
- 6 Tuesday
- 7 Wednesday
- 8 Thursday
- 9 Friday
- 10 Saturday
- 11 SUNDAY
- 12 Monday
- 13 Tuesday
- 14 Wednesday
- 15 Thursday
- 16 Friday
- 17 Saturday
- 18 SUNDAY
- 19 Monday
- 20 Tuesday
- 21 Wednesday
- 22 Thursday
- 23 Friday
- 24 Saturday
- 25 SUNDAY
- 26 Monday
- 27 Tuesday
- 28 Wednesday
- 29 Thursday
- 30 Friday
- 31 Saturday

Peter Redpath Museum opened  
1882.

### FACULTY OF ARTS.

*EXHIBITION, SCHOLARSHIP, &c., EXAMINATIONS,  
SEPTEMBER, 1888.*

DAY.	DATE	FIRST YEAR.	SECOND YEAR.	THIRD YEAR.	HOURS.
Monday.	17	Greek.	Greek.	Greek.	9 to 12
"	17	Latin.	Latin.	Latin Prose Comp.	2 to 5
"	17			Mathematics.	9 to 12
Tuesday.	18	Mathematics.	Mathematics.	Latin.	9 to 12
"	18			Mathematics.	9 to 12
"	18			Botany.	9 to 12
"	18	Mathematics.	Mathematics.	Ancient History.	2 to 5
"	18			Botany.	2 to 5
Wednesday.	19	English.	English.	English.	9 to 12
"	19			Logic.	9 to 12
"	19	English.		English.	2 to 5
"	19		Chemistry.	Chemistry.	2 to 5
Thursday.	20			Mathematics.	9 to 12
"	20			Botany.	9 to 12
"	20		French.	French.	9 to 12
"	20	Grammar and Comp. (Classics.)	General Paper. (Classics.)	English Composition	2 to 5
Friday.	21		Mathematics.	Mathematics.	9 to 12
			English.		2 to 5

*CHRISTMAS EXAMINATIONS, DECEMBER, 1888.*

DAY.	DATE	FIRST YEAR.	SECOND YEAR.	THIRD YEAR.	FOURTH YEAR.
Monday.	17	Latin.	Latin.	Mechanics.	Astronomy.
Tuesday.	18	Greek.	Botany.	Greek.	Greek.
"	18		German, P.M.	Botany, P.M.	Latin, P.M.
Wednesday.	19	Mathematics.	Psychology.	Latin	Moral Philosophy.
"	19	French, P.M.	French, P.M.	Zoology, P.M.	Geology.
Thursday.	20	Chemistry.	Greek.		History.
"	20	German, P.M.	German, P.M.		
"	20	Hebrew, P.M.			
Friday.	21	English.		Ment. Phil.	

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APRIL.	A.
1 Mon.	Heb
2 Tue.	....
3 Wed.	Gree
4 Thurs.	Lati
5 Fri.	Engl
9 Tues.	Geon and
10 Wed.	Trig an
11 Thurs.	Fren
15 Mon.	Chen
16 Tues.	Meet
17 Wed.	.....
18 Thurs.	Germ
23 Tues.	Hono
24 Wed.	
25 Thurs.	Hono
26 Fri.	
27 Sat.	
30 Tues.	Conve

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**FACULTY OF ARTS.**

SESSIONAL AND HONOUR EXAMINATIONS, APRIL, 1889.

DAY.	FIRST YEAR.		SECOND YEAR.		THIRD YEAR.		FOURTH YEAR.	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
1 Mon.	Hebrew	...	Hebrew	.....	Hebrew	.....	Hebrew.	
2 Tue.	.....	.....	.....	.....	.....	.....	B.A. Honours.	
3 Wed.	Greek	.....	Greek	.....	Mech'ics	.....	Ethics.	Ethics.
4 Thurs.	Latin.	Anc. History	Latin.	Composition	Latin.	.....	Latin.	Latin.
5 Fri.	English.	.....	English.	English.	Ex. Phy- sics.	English.	Ex. Phy- sics.	History.
9 Tues.	Geometry	.....	Mathematics	.....	Greek	.....	Math. Physics and B.A. Honours.	
10 Wed.	Trigonometry and Algebra	.....	Mathematics	.....	Astr'y and Optics	.....	B.A. Honours.	
11 Thurs.	French.	French.	French.	French.	Metaphysics	.....	Geology.	Geology.
15 Mon.	Chemistry	.....	.....	.....	Zoology	.....	Greek.	History.
16 Tues.	Meeting of Exa'ners.	.....	Logic	.....	.....	.....	.....	.....
17 Wed.	.....	.....	Botany	.....	French	.....	French; B.A. Hon- ours.	
18 Thurs.	German	.....	German	.....	German	.....	German; B.A. Hon- ours.	
23 Tues.	Honour Exa minations	.....	Honour Examinations	.....	Honour Exam'tions	.....	B.A. Honours.	
24 Wed.	Meeting of	.....	Examiners.	.....	Meeting of	.....	Corporation.	
25 Thurs.	Honour Examinations	.....	Honour Examinations	.....	Honour Exam'tions	.....	B.A. Honours.	
26 Fri.	Meeting of	.....	Examiners.	.....	.....	.....	.....	
27 Sat.	Meeting of	.....	Examiners.	.....	Declaration	.....	of results.	
30 Tues.	Convocation for Degr	.....	ees in Arts.	.....	.....	.....	.....	

The Examinations begin at 9 A.M. and 2 P.M. when not specified otherwise.

FACULTY OF APPLIED SCIENCE.

EXAMINATIONS.—1888-89.

CHRISTMAS, 1888.

The days of the several Examinations will be announced by the Faculty during the Session.

SESSIONAL, 1889.

DAYS.	FIRST YEAR.	SECOND YEAR.	THIRD YEAR.	FOURTH YEAR.
Saturday March 31.	Freehand Drawing.	Descrpt' ve Geomet'y	Descrp' ve Geometry	
M. April 1			Theory of Structures	Theory of Structures.
T. " 2	Practical Chemistry.			Mineralogy (adv.)
W. " 3		Mechanism.	Theory of Structures	Theory of Structures.
T. " 4		Essay.	Essay.	Essay.
F. " 5		Exp. Physics.	Exp. Physics.	Theory of Structures.
S. " 6		Theot. Chemistry.	{ Th.of Struc.(adv.) { Theot. Chem.	Theory of Structures (adv.)
Sun. " 7	.....	.....	.....	.....
M. " 8		{ Practical Chem. { Mechanical Work.	{ Pract. Chemistry. { Mechanical Work.	Assaying. Theory of Structures
T. " 9	Mathematics.	Mathematics.	Mathematics.	Geology (adv.)
W. " 10		Prac. Construction.	{ Mining. { Pract. Constr.	Theory of Structures (adv.)
T. " 11	French.	French.	Geology.	Geology adv.
F. " 12		Materials.	Materials.	Materials.
S. " 13	Mathematics.	Mathematics.	Mathematics.	
Sun. " 14	.....	.....	.....	.....
M. " 15	Chemistry.	{ Chemistry. { Zoology (p.m.)	{ Chemistry. { Mach. & Millwork.	Chemistry. Mach'y & Millwork
T. " 16		Surveying.	{ Surveying { Machinery.	
W. " 17		Botany.	French.	Heat.
T. " 18	German.	German	German.	Metallurgy.
F. " 19	Good Friday.	.....	.....	.....
S. " 20	Mathematics.	Mathematics.	Mathematics.	Heat (adv.) Petrography.
Sun. " 21	.....	.....	.....	.....
M. " 22			Mineralogy.	Hydraulics.
T. " 23				
W. " 24			Mineralogy.	{ Machinery (adv.) { Hydraulics (adv.) { Geology (adv.)
T. " 25				
F. " 26				
S. " 27	Convocation.			

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# Faculty of Arts

THE PRINCIPAL (Ex-officio).

Professors :—MARKGRAF.

DAWSON.

JOHNSON.

CORNISH.

DAREY.

MURRAY.

HARRINGTON.

Professors :—MOYSE.

PENHALLOW.

COUSSIRAT.

Assistant Prof. :—EATON.

Lecturers :—CHANDLER.

LAFLEUR.

Dean of the Faculty :—ALEXANDER JOHNSON, LL.D.

Honorary Librarian :—REV. GEORGE CORNISH, LL.D.

[CONTENTS.—*Matriculation, &c.*, § I.; *Exhibitions, &c.*, § II.; *Course of Study*, § III.; *Examinations, Degrees, &c.*, § IV.; *Exemptions, &c.*, § V.; *Medals, &c.*, § VI.; *Licensed Boarding Houses*, § VII.; *Attendance and Conduct*, § VIII.; *Library*, § IX.; *Peter Redpath Museum*, § X.; *Fees, &c.*, § XI.; *Courses of Lectures*, § XII.]

The next Session of this Faculty will begin on September 17th, 1888, and will extend to April 30th, 1889.

## § I. MATRICULATION AND ADMISSION.

I. UNDERGRADUATES.—There are two Matriculation examinations in the year. (1) That held in the first week of June, on the same papers as those for the examinations for Associate in Arts. For this papers can be sent on application to any school in Canada, when the required conditions are fulfilled (for regulations see under school examinations *infra*). (2) That held at the opening of the session, on September 17th and following days, in McGill College alone.

As the examination is intended as a test of qualification for admission to the classes of the University, certificates of passing are not granted except to those who subsequently attend lectures.

a. JUNIOR MATRICULATION (FOR ENTRANCE INTO THE FIRST YEAR).

Examinations on June 1st in McGill College and local centres ; on September 17th in McGill College only.

*In Classics.—Greek.*—Xenophon, Anabasis, Book I. ; or Homer, Iliad, Book I. ; Greek Grammar.

*Latin.*—Cicero, Orations I. and II., against Catiline ; or, Virgil, Æneid, Book I. or Book II. ; Latin Grammar.

*In Mathematics.*—Arithmetic ; Algebra, to Simple Equations (inclusive) ; Euclid's Elements, Books I., II., III.

*In English.*—Writing from Dictation. A paper on English Grammar *including Analysis*. A paper on the leading events of English History. Essay on a subject to be given at the time of the examination.

An equivalent amount of other books or other authors in Latin and Greek than those named may be accepted by the Examiners on application made through the Professor of Classics.

(See also notice on p. 70.)

(Associates in Arts, who at their special Examination have passed in Latin, Greek, Algebra and Geometry, are not required to present themselves for the Matriculation Examination. See regulations under head of School Examinations).

An *Advanced Examination* in any one or more of the subjects of the First Year will be held in September for such of the candidates as desire it. Candidates who pass creditably in this will be entitled to such exemptions from the Lectures and from the Christmas Examinations of the First Year as the Faculty may determine. For the Advanced Examination in Classics two authors in Latin and two in Greek will be required, and the books fixed (see below) must be taken.

Candidates for the Advanced Examination must send notice to the Dean of their intention before the day of Examination, stating the subjects of the First Year and the extent of reading in each they purpose to submit.

Partial or Occasional Students (see below) in the first Year, who pass the April Sessional Examinations in one or more subjects, will, if Candidates for Undergraduate standing in the First Year in the following September, be allowed to count these as Advanced Examinations under the above rule.

The *Courses in some of the subjects for Advanced Matriculation* are as follows :—

*Classics.—Greek.*—Xenophon, Anabasis, Book I. ; Homer, Iliad, Book VI.

*Latin.*—Cicero, Orations I. and II. against Catiline ; Virgil, Æneid, Book II.

A paper on Greek and Latin Grammar, and Latin Prose Composition (Bradley's Arnold, to p. 155).

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*Mathematics.*—Candidates who pass a satisfactory Examination in the Arithmetic and Euclid of the First Year (see course for entrance into Second Year) will be exempt from lectures up to Christmas and from the Christmas Examination.

Candidates who, in addition to the above, pass a satisfactory Examination in Algebra and Trigonometry, will be exempt from lectures altogether in these subjects in the First Year.

*English.*—Candidates who pass a satisfactory Examination on Morley's First Sketch of English Literature, Celtic period to Elizabethan period (inclusive), will be exempt from the lectures on Literature during the First Year.

b. SENIOR MATRICULATION (FOR ENTRANCE INTO THE SECOND YEAR).

(Examinations on Sept. 17th in McGill College only.)

*In Classics.—Greek.*—Homer, Iliad, Book VI. ; Xenophon, Anabasis, Book I. ; Grammar and Prose Composition.

*Latin.*—Virgil, Æneid, Book VI. ; Cicero, Orations IV. against Catiline ; Grammar and Prose Composition.

[An equivalent amount of other books or other authors in Latin and Greek than those named above may be accepted by the Examiners for entrance into the Second Year on application made through the Professor of Classics.]

*In Mathematics:*—

*Euclid.*—Books I., II., III., IV., VI., with defs. of Book V. (omitting Propositions 27, 28, 29, of Book VI.)

*Algebra.*—To end of Quadratic Equations. (Colenso's Alg.)

*Trigonometry.*—Galbraith and Haughton's Trigonometry, Chaps. I., 2, 3, 4, 6, to beginning of numerical solution of plane triangles.

*Arithmetic.*—Elementary rules, Proportion, Interest, Discount, &c., Vulgar and Decimal Fractions, Square Root.

*In English Literature.*—Writing from Dictation, English Grammar, including Analysis, English Composition, English History (Buckley). Essay.

*In French.*—French Grammar ; or (instead of French) *German*—in which knowledge sufficient to enable the Candidate to join the regular class will be required.

*In Chemistry.*—The Chemistry of the non-metallic Elements, and of the more common metals.

[*Note.*—Candidates unable to pass in French or German are not excluded, but they are required to begin German, and to continue the study of it for two years. Candidates unable to pass in Chemistry are required to attend such of the lectures in the subject as are open to them, and to pass an examination at the end of the Second Year].

## 2. STUDENTS OF OTHER UNIVERSITIES.—PARTIAL AND OCCASIONAL STUDENTS.

**STUDENTS OF OTHER UNIVERSITIES.**—May be admitted, on the production of Certificates, to a like standing in this University, after examination by the Faculty.

**PARTIAL STUDENTS.**—Candidates for Matriculation as Partial Students, taking three or more Courses of Lectures, will be examined in the subjects necessary thereto, as may from time to time be determined by the Faculty.

**OCCASIONAL STUDENTS.**—Persons desirous of taking one or two Courses of Lectures, as Occasional Students, may apply to the Dean for entry in his Register, and may procure from the Secretary tickets for the Lectures they desire to attend.

## 3. GENERAL REGULATIONS.

Every Student is expected to present, on his entrance, a written intimation from his parent or guardian of the name of the minister of religion under whose care and instruction it is desired that the Student should be placed, who will thereupon be invited to put himself in communication with the Faculty on the subject. Failing such intimation from his parent or guardian, the Faculty will endeavor to establish befitting relations.

Every matriculated student is required to sign in the Matriculation register the following:—

### DECLARATION.

“I hereby declare that I will observe the statutes, rules and ordinances of this University of McGill College to the best of my ability.”

## 4. DIRECTIONS TO CANDIDATES FOR MATRICULATION.

1. *June Examinations*:—Schools desirous to take advantage of these may send their pupils for examination to McGill College; or, if at a distance, by sending in names of Deputy Examiners for approval, with list of candidates on or before May 1st, may have papers sent to them.

2. *September Examinations*:—Held in McGill College only, Sept. 17th and following days. Candidates are required:—

(a). To present themselves to the Dean, and fill up a form of application for admission. (§1.)

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(b) To pass the required examinations (§I.). (Unless passed in June, in which case a certificate of this is to be given to the Dean.)

(c) To procure tickets from the Registrar (§XI.), and, if not occasional Students, to sign the Matriculation Register.

(d) To present their tickets to the Dean. (§XI.)

(e) To provide themselves with the Academic dress. (§VIII.)

(Note.)—Candidates for entrance into the Faculties of Medicine or Applied Science in McGill University may pass in the above examinations.

## § II. SCHOLARSHIPS AND EXHIBITIONS.

### GENERAL REGULATIONS.

1. A Scholarship is tenable for *two* years. An Exhibition for *one* year.

2. Scholarships are open for competition to Students who have passed the University Intermediate Examination, provided that not more than three sessions have elapsed since their Matriculation; and also to candidates who have obtained what the Faculty may deem equivalent standing in some other University, provided that application be made before the end of the Session preceding the Examination.

3. Scholarships are divided into two classes:—[1] *Science* Scholarships; [2] *Classical and Modern Language* Scholarships. The subjects of Examination for each are as follows:—

*Science Scholarships.*—Differential and Integral Calculus; Analytic Geometry; Plane and Spherical Trigonometry; Higher Algebra and Theory of Equations; Botany; Chemistry; Logic. (For subdivision see below.)

*Classical and Modern Language Scholarships.*—Greek; Latin; English Composition; English Language, Literature, and History; French.

4. Exhibitions are assigned to the First and Second Years.

First Year Exhibitions are open for competition to candidates for entrance into the First Year.

Second Year Exhibitions are open for competition to Students who have passed the First Year Sessional Examinations, provided that not more than two Sessions have elapsed since their Matriculation; and also to candidates for entrance into the Second Year.

The subjects of Examination are as follows:—

*First Year Exhibitions.*—Classics, Mathematics, English.

*Second Year Exhibitions.*—Classics, Mathematics, English Language and Literature, Chemistry and French.

5. The First and Second Year Exhibition Examinations will, for Candidates who have not previously entered the University, be regarded as Matriculation Examinations.

6. No student can hold more than one Exhibition or Scholarship at the same time; but four of the First Year Exhibitioners will be granted exemption from the Sessional fees throughout their College Course, under Presentation Scholarships from the Governor General. (See below.)

7. Exhibitions and Scholarships will not necessarily be awarded to the best answerers at the Examinations. Absolute merit will be required.

8. If in any one College Year there be not a sufficient number of Candidates showing absolute merit, any one or more of the Exhibitions or Scholarships offered for competition may be transferred to more deserving Candidates in another year.

9. A successful Candidate must, in order to retain his Scholarship or Exhibition, proceed regularly with his College Course to the satisfaction of the Faculty.

10. The annual income of the Scholarships or Exhibitions will be paid in four instalments, viz.:—In October, December, February and April, about the 20th day of each month.

11. The Examinations will be held at the beginning of every session.

There are at present fifteen Scholarships and Exhibitions:—

THE JANE REDPATH EXHIBITION, founded by Mrs. Redpath, of Terrace Bank, Montreal:—value, \$100 yearly, open to both men and women.

TEN McDONALD SCHOLARSHIPS AND EXHIBITIONS, founded by W. C. McDonald, Esq., Montreal:—value, \$125 each, yearly.

THE CHARLES ALEXANDER SCHOLARSHIP, founded by Charles Alexander, Esq., Montreal, for the encouragement of the study of Classics and other subjects:—value, \$120 yearly.

THE GEORGE HAGUE EXHIBITION, given by George Hague, Esq., Montreal, for the encouragement of the study of Classics:—value, \$125 yearly.

THE MAJOR H. MILLS SCHOLARSHIP, founded by bequest of the late Major Hiram Mills:—value, \$100 yearly.

THE BARBARA SCOTT SCHOLARSHIP, founded by the late Miss Barbara Scott, for the encouragement of the study of the Classical languages and literature:—value, \$100 to \$120 yearly.

#### EXHIBITIONS AND SCHOLARSHIPS OFFERED FOR COMPETITION AT THE OPENING OF THE SESSION, SEPT., 1888.

To Students entering the First Year, three Exhibitions of \$125, and two of \$100.

Subjects of Examination:—

GREEK.—Homer, Iliad, bk. IV.; Xenophon, Anabasis, bk. I.; Demosthenes, Philippics I. and II.

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A paper on Greek and Latin Grammar.

*Text-Books*.—Hadley's or Goodwin's *Elements of Greek Grammar*. Arnold's *Greek Prose Composition*, Exercises 1 to 25. Dr. Wm. Smith's *Smaller Latin Grammar*, and *Principia Latina*, Part IV., or Arnold's *Latin Prose Composition*, by Bradley.

*Mathematics*.—Euclid, bks. I., II., III., IV. ; Algebra to end of *Harmonical Progression* (Colenso) ; Arithmetic.

*English*.—English Grammar and Composition. (Mason's Grammar, omit Derivation and Appendix )

The First Year Exhibitions will be awarded to the best answerers in the above course, provided there be absolute merit.

But in subsequently distributing the Exhibitions of higher value among the successful candidates, answering in the following subjects will be taken into account also :—

1. A re-translation into Latin of an English version of some passage from one of the easier Latin Prose writers (for specimens see Smith's *Principia Latina*, Part V.).

2. Euclid, Book VI. (omitting Props. 27, 28, 29), with Defs. of Book V.

3. English :—An Examination upon one of Shakespeare's plays. For 1888,—Julius Cæsar. For 1889,—As You Like it.

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*To Students entering the Second Year, three Exhibitions of \$125, and two of \$100.*

*Subjects of Examination :—*

*Greek*.—Homer, *Odyssey*, bk. VI. ; Herodotus, bk. III., Chaps. 1 to 67 ; Demosthenes, *Olynthiacs* I. and II.

*Latin*.—Virgil, *Georgics*, bk. I. ; Horace, *Odes*, bk. III. ; Livy, bk. XXII.

Greek and Latin Prose Composition.

A paper on Grammar and History.

*Text-Books*.—Dr. William Smith's *History of Greece*. Liddell's *History of Rome*. Hadley's *Greek Grammar*. Smith's *Student's Latin Grammar*. Arnold's *Greek Prose Composition*. Smith's *Principia Latina*, Parts IV. and V.

*Mathematics*.—The Mathematics (Ordinary and Honour) of First Year.

*English Literature*.—Mason's Grammar. Shakespeare, *As You Like it*. Trench, *Study of Words*.

*Chemistry.*—Nichol's Abridgement of Elliot and Storer's Manual as far as p. 208.

*French.*—Darey, Principes de Grammaire française; Lafontaine les Fables, livres I. and II.; Molière, le Bourgeois gentilhomme.

To Students entering the Third Year, Three Scholarships of \$125, and one of \$120, tenable for two Years.

One of these is offered in Mathematics and Logic, and one in Natural Science and Logic, as follows:—

1. *Mathematics.*—Differential Calculus (Williamson, Chaps. 1, 2, 3, 4, 7, 9; Chap. 12, Arts. 168-183 inclusive; Chap. 17, Arts. 225-242 inclusive). Integral Calculus (Williamson, Chaps. 1, 2, 3, 4, 5; Chap. 7, Arts. 126-140 inclusive; Chap. 8, Arts. 150-156 inclusive; Chap. 9, Arts. 168-176 inclusive). Analytic Geometry (Salmon's Conic Sections, subjects of Chaps. 1-13 (omitting Chap. 8), with part of Chap. 14. Hind's Plane and Spherical Trigonometry. Salmon's Modern Higher Algebra (first four chapters). Todhunter's or Burnside and Panton's Theory of Equations (selected course).

*Logic*, as in Jevons' Elementary Lessons on Logic.

2. *Natural Science.*—*Botany*, as in Gray's Structural and Systematic Botany. *Canadian Botany*, including a practical acquaintance with all the orders of Phænogams Pteridophytes and Bryophytes. *Chemistry*, Nichol's abridgment of Eliot and Storer's Manual of Chemistry.

*Logic*, as in Jevons' Elementary Lessons on Logic.

Two will be given on an Examination in Classics and Modern Languages, as follows:—

*Classics.*—*Greek.*—Euripides, Medea; Demosthenes, the Olynthiacs; Xenophon, Hellenics, Book I.; Herodotus, Book VIII.; Thucydides, Book VI. *Latin.*—Hcrace, Satires, Book I., and Epistles, Book I.; Virgil, Georgics, Book I.; Terence, Adelphi; Tacitus, Annals, Book I.; Pliny, Select Letters (Pritchard and Bernard; Clarendon Press Series). Greek and Latin Prose Composition.

*History.*—*Text-books.*—Rawlinson's Manual of Ancient History; Smith's Student's Greece; Liddell's Rome.

*English Language and Literature.*—Spalding's English Literature (Chap. VI., Part III., to end of book); Shakespeare, Tempest; Milton's Paradise Lost, books I. and II.; Trench, Study of Words.

*English Composition.*—(High marks will be given for this subject.)

*French.*—Ra

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*French.*—Racine, *Britannicus*; Molière, *les Femmes savantes*. French Grammar. Les Ecrivains célèbres de la France:—Bonnefon. Translation from English into French.

*Classical Subjects for Exhibitions, September, 1889.*

FIRST YEAR.—*Greek.*—Homer, *Iliad*, Bk. IV.; Xenophon, *Anabasis*, Bk. I.; Demosthenes, *Philippics* I. and II.

*Latin.*—Virgil, *Æn.*, Bk. I. or Bk. II.; Horace, *Odes*, Bk. III.; Cicero, *In Catilinam*, Orat. I.

SECOND YEAR.—*Greek.*—Homer, *Odyssey*, Bk. VI.; Demosthenes, *Olynthiacs*, I. and II.; Herodotus, Bk. III., chaps. 1-67.

*Latin.*—Virgil, *Georgics*, Bk. I.; Horace, *Odes*, Bk. I.; Livy, Bk. XXII.

EXEMPTIONS FROM FEES UNDER PRESENTATION SCHOLARSHIPS, &c.

A number of these are in the gift of Benefactors, and entitle the Students holding them to exemption from the Sessional Fees in the Faculty of Arts. Sixteen have been placed by the Governors at the disposal of His Excellency the Governor General. Candidates must pass the usual Matriculation Examination.

[By command of His Excellency, four of these Exemptions will be offered for competition in the First Year Exhibition Examinations of the ensuing session.]

Eight exemptions from fees may be granted by the Board of Governors, from time to time, to the most successful students who may present themselves as candidates. By order of the Board one of these is given annually to the *Dux* of the High School of Montreal, and one to the *Dux* of any other Academy or High School sending up, in one year, three or more candidates competent to pass creditably the Matriculation Examination.

In the event of any Academy or High School in the Province of Quebec offering for competition among its pupils an Annual Bursary in the Faculty of Arts, of not less than \$80, the Governors will add the amount of the fees of tuition thereto.

Exemptions from fees, not exceeding three in number, may be given to holders of the Academy Diploma of the McGill Normal School, who, on fulfilling the required conditions, enter in the Second Year, if at the Diploma Examination they have taken 75 per cent. of the total marks, with not less than two-thirds of the marks in Latin and in Greek.

By a resolution of the Board of Governors exemptions are granted to students of any affiliated Theological College, recommended by its Principal, and entering the Faculty of Arts either as Undergraduates or as Partial Students.

One exemption is given annually to the pupil (boy or girl) from the Schools of the Protestant Commissioners, Montreal, who has taken the highest marks at the A.A. Examination, and is recommended by the Commissioners.

### § III. COURSE OF STUDY.

1. Undergraduates are arranged according to their standing, as Students of the First, Second, Third or Fourth Year. They are required to attend all the courses of Lectures and pass the examinations appointed for their several years, under the Regulations of the Faculty as to attendance and conduct; the only exceptions are those in favour of Honour and Professional Students, stated in § V.

#### ORDINARY COURSE FOR THE DEGREE OF B.A.

*First Year.*—Classics; French or German; English Grammar and Literature; Pure Mathematics; Elementary Chemistry.

*Second Year.*—Classics; French or German; English Literature; Elementary Psychology and Logic; Pure Mathematics; Botany.

*Third Year.*—Latin or Greek; Mathematical Physics (Mechanics and Hydrostatics); with any three subjects out of the two following divisions at the option of the student, provided two be selected from one division, and one from the other.

*I. Literature, etc.*—(a) Greek or Latin, according as Latin or Greek has been previously chosen. (b) French or German (whichever has been taken in the first two years). (c) English and Rhetoric. (d) Mental Philosophy.

*II. Science.*—(e) Optics and Descriptive Astronomy. (f) † Experimental Physics (First Course). (g) Natural Science (Zoology).

*Fourth Year.*—Latin or Greek (same language as in Third Year); Mathematical Physics (as in Third Year) or Astronomy and Optics; Moral Philosophy; with any three subjects out of the two following divisions at the option of the student, provided two be selected out of the one division, and one out of the other:—

*I. Literature, etc.*—(a) Greek or Latin, according as Latin or Greek has been taken above. (b) French or German, same language as in Third Year. (c) History.

*II. Science.*—(d) Astronomy and Optics, if not chosen as above. (e) † Experimental Physics (Second Course). (f) Natural Science (Geology).

† Students claiming exemptions (see § V) cannot take Experimental Physics if they have not taken the Third Year Mathematical Physics.

Instead of two distinct subjects in one of the above divisions, the Student in either Third or Fourth Year, may select one subject only, together with an *Additional Course* in the same or any other of his subjects in which such Additional Course may have been provided by the Faculty, under the above rules, provided he has been placed in the first class in the corresponding subject at the preceding Sessional Examination (viz. Intermediate or Third Year, according to standing).

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The additional course is intended to be more than an equivalent in the amount of work involved, for any of the other subjects in the division.

(For details of additional courses provided see under Section XII.)

Undergraduates are required to study either French or German for two years (viz., in the First and Second Years), taking the same language in each year. Any Student failing to pass the Examination at the end of the Second Year will be required to pass a Supplemental Examination, or to take an additional Session in the Language in which he has failed. In addition to the obligatory, there are other lectures, attendance on which is optional.

Students who intend to join any Theological School, on giving written notice to this effect at the beginning of the First Year, may take Hebrew instead of French or German.

Undergraduates who have been previously Partial or Occasional Students, and have in that capacity attended a particular Course or Courses of Lectures, may at the discretion of the Faculty be exempted from further attendance on these Lectures, but no distinction shall in consequence be made between the Examinations of such Undergraduates and of those regularly attending Lectures.

2. At the Examination for the Degree of B.A., Honours are given in the following subjects, for which special Honour Courses are provided:—[For details see under § XII.]

1. *Classical Language and Literature.*
2. *Mathematics and Physics.*
3. *Mental and Moral Philosophy.*
4. *English Language, Literature and History.*
5. *Geology and other Natural Sciences.*
6. *Modern Languages with History.*
7. *Semitic Languages.*

Honours are given in the above subjects in the Third Year also, and in Mathematics in the First and Second Years.

Candidates for Honours are allowed exemptions under conditions stated in § V.

#### § IV. EXAMINATIONS.

##### COLLEGE EXAMINATIONS.

*For Students of McGill College only.*

1 There are two Examinations in each year: one at Christmas and the other at the end of the Session. In each of these the students who pass are arranged according to their answering as 1st Class, 2nd Class, and 3rd Class.

In the Fourth Year only, the University Examination for B.A. takes the place of the Sessional Examination.

2. Students who fail in any subject at the Christmas Examinations are required to pass a Supplemental Examination (if permission be obtained from the Faculty) in that subject, before admission to the Sessional Examinations.

3. Undergraduates who fail in one subject at the Sessional Examinations of the first two years are required to pass a Supplemental Examination in it. Should they fail in this, they will be required in the following Session to attend the Lectures and pass the Examination in the subject in which they have failed, in addition to those of the Ordinary Course, or to pass the Examination alone without attending lectures, at the discretion of the Faculty.

4. Failure in two or more subjects at the Sessional Examinations of the first two years, or in one subject at the Third Year Sessional examinations, involves the loss of the Session. The Faculty may permit the Student to recover his standing by passing a Supplemental Examination at the beginning of the ensuing Session. For the purpose of this Regulation, Classics and Mathematics are each regarded as two subjects.

5. Application for a Supplemental Examination must in all cases be made to the Faculty. A Partial or Occasional Student is required to pay a fee of \$1 for it, if granted. The time for the Supplemental Examination will be fixed by the Faculty; the Examination will not be granted at any other time, except by special permission of the Faculty, and on payment of a fee of \$5.

### UNIVERSITY EXAMINATIONS.

*For Students of McGill College and of Colleges affiliated in Arts.*

#### I. FOR THE DEGREE OF B.A.

There are three University Examinations:—The *Matriculation* at entrance; the *Intermediate*, at the end of the Second Year; and the *Final*, at the end of the Fourth Year.

1. The subjects of the Matriculation Examination are stated in Section I.

2. In the Intermediate Examination the subjects are Classics and Pure Mathematics, Logic, and the English Language, with one

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other Modern Language, or Botany. Theological Students are allowed to take Hebrew instead of a Modern Language. The subjects for the examination of 1889 are as follows :

*Classics.*—Greek.—Euripides. —Medea.

Latin.—Horace.—Epistles, Book II. (including *Ars Poetica*).

Latin Prose Composition.

*Mathematics.*—Arithmetic.

Euclid, Books I., II., III., IV., VI. and defs. of Book V.

Algebra, to Quadratic Equations, inclusive.

Trigonometry, including use of Logarithms.

*Logic.*—Jevons' Elementary Lessons in Logic.

*English.*—Spalding's History of English Literature or Lectures (see course). A paper on the essentials of English History (Buckley). Essay on a subject to be given at the time of the Examination.

With one of the following :—

1. *Botany and Vegetable Physiology.*—Structural and Systematic Botany, as in Gray's Text-Book, omitting the Descriptions of the Orders.
2. *French.*—C. Delavigne :—Les Enfants d'Edouard. Racine :—Iphigénie. CONTANSEAU : Précis de la littérature française, from the beginning to the end of the XVII century. Translation into French :—Rasselas. Grammatical questions.
3. *German.*—Schmidt's German Guide ; Adler's Reader (selections from secs. 3 and 4) ; Translation into German.
4. *Hebrew.*—Genesis, chaps. III.-VI. ; Exodus, chap. XX. ; Deuteronomy, chap. XXXII. Exercises :—Hebrew into English, and English into Hebrew. Syntax.—Reading of the Masoretic Notes.

3. For the Final or B.A. Ordinary Examination the subjects are those appointed as obligatory in the Third and Fourth Years, viz., Latin or Greek ; Mathematical Physics (Mechanics and Hydrostatics) or Astronomy and Optics ; Moral Philosophy ; and those three subjects which the Candidate may have selected for himself in the Third and Fourth Years. (See § III.)

The subjects in detail for 1889 are as follows :—

*Classics.*

1. *Greek.*—Æschines, *Contra Ctesiphontem*. Æschylus, *Prometheus Vincetus* ; Greek History :—From the close of the Peloponnesian war to the death of Philip. (Or Latin, as follows) :—
2. *Latin.*—Tacitus, *Annals*, Book II ; Roman History (The twelve Cæsars). Juvenal, *Satt.* : VIII. and XIII.

*Mathematical Physics.*

1. Mechanics and Hydrostatics, as in Galbraith & Haughton's text-books; or
2. Optics and Astronomy, " " "

*Mental and Moral Philosophy.*

Calderwood's Handbook of Moral Philosophy (omitting the Historical Sketch, pp. 43-76), and Rogers' Manual of Political Economy.

\*Lectures, with any two of the books prescribed for Part I. of the Honour work of the Fourth Year.

*Natural Science.*

Mineralogy and Geology, as in Dana's Manual and Dawson's Lecture Notes.

\*Geology of Canada and Palæontology, or Practical Chemistry, as in § XII.

*Experimental Physics.*

*Electricity, Magnetism and Sound* (see Courses of Lectures § XII).

*History.*

Myers:—Mediæval and Modern History; Bryce's Holy Roman Empire (omit Chaps. VI., VIII., IX., XIII., and Supplementary Chapter).

\*Additional Course as in XII.

*French.*

The Course of French for the Fourth Year.

\*The subjects of the Additional Course as in § IX.

*German.*

The Course of German for the Fourth Year.

\* Additional Course as in § XII.

*Hebrew* (Theological Students only).

*Job*, Chaps. I., IV., XIV.; *Ecclesiastes*, Chaps. I., II., III., XII.; *Jeremiah*, Chap. I.—Gesenius' Grammar.—Exercises.—Hebrew into English, and English into Hebrew.—Syntax.—Reading of the Masoretic Notes.—

\* Additional Courses (See § III).

For details of each subject, see Courses of Lectures, § XII.

At the B.A. Ordinary Examination, of those Candidates who obtain the required aggregate of marks, only those who pass in the First Class in three of the departments, and not less than Second Class in the remainder, shall be entitled to be placed in the First Class for the Ordinary Degree.

4. Every Candidate for the Degree of B.A. is required to make and sign the following

## DECLARATION.

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## II. FOR THE DEGREE OF M.A.

1. A candidate must be a Bachelor of Arts of at least three years standing.

*Thesis.*

2. *a.* He is required to prepare and submit to the Faculty a thesis on some literary or scientific subject.

*b.* The subject of the thesis must be submitted to the Faculty before the thesis is presented.

*c.* A paper read previously to any association or published in any way cannot be accepted as a thesis.

*d.* The thesis becomes the property of the University and cannot be published without the consent of the Faculty of Arts.

*e.* The thesis must be submitted before some date to be fixed annually by the Faculty, not less than two months before proceeding to the Degree.

*The last day in the session of 1888-89 for sending in Theses for M.A. will be Jan. 30th, 1889.*

*Examination.*

3. All candidates, except those who have taken First Rank B.A. Honours, (or Second Rank B.A. Honours in or after 1889), or have passed First Class in the Ordinary Examinations for the Degree of B.A., are required to pass an examination also, either in Literature or in Science, as each candidate may select.

(*a*) The subjects of the Examination in *Literature* are divided into two groups:—

A.—1. Latin. 2. Greek. 3. Hebrew.

B.—1. French. 2. German. 3. English.

(*b*) The subjects for the Examination in *Science* are divided into three groups:—

A.—1. Pure Mathematics (Advanced or Ordinary). 2. Mechanics (Including Hydrostatics). 3. Astronomy. 4. Optics.

B.—1. Geology and Mineralogy. 2. Botany. 3. Zoology. 4. Chemistry.

C.—1. Mental Philosophy. 2. Moral Philosophy. 3. Logic. 4. History of Philosophy.

(c) Every Candidate in Literature is required to select two subjects out of one group in the Literary section, and one out of the other group in the same section for the Examination. Every Candidate in Science is required to select two out of the three groups in the Scientific section ; and in one of the groups so chosen to select two subjects, and in the other group one subject for Examination.

(d) One of the subjects selected as above will be considered the principal subject, (being so denoted by the candidate at the time of application) and the other two as subordinate subjects.

For further details of the Examination application must be made to the Faculty before the above date. For fees see § XI.

### III. FOR THE DEGREE OF LL.D.

Candidates must be Masters of Arts of at least twelve years standing. Every Candidate for the degree of LL.D. in Course is required to prepare and submit to the Faculty of Arts, not less than three months before proceeding to the degree, twenty-five printed copies of a Thesis on some Literary or Scientific *subject previously approved* by the Faculty, and possessing such a degree of Literary or Scientific merit, and evidencing such originality of thought or extent of research as shall, in the opinion of the Faculty, justify it in recommending him for that degree.

N.B. The subject should be submitted before the Thesis is written.

Every Candidate for the degree of LL.D. in Course is required to submit to the Faculty of Arts, with his Thesis, a list of books, treating of some one branch of Literature or of Science, satisfactory to the Faculty, in which he is prepared to submit to examination, and on which he shall be examined, unless otherwise ordered by vote of the Faculty. For Fees see § XI.

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### § V. SPECIAL PROVISIONS FOR CANDIDATES FOR HONOURS AND FOR PROFESSIONAL STUDENTS.

The Honour lectures are open to Undergraduates only, and no Undergraduate is permitted to attend unless (a) He has been placed in the First Class in the subject at the preceding Sessional Examination, if there be one, and has (b) Satisfied the Professor that he is otherwise qualified.

(c) While attending lectures his progress must be satisfactory to the Professor. If not satisfactory, he may be notified by the Faculty to discontinue attendance.

#### *I. Candidates for Honours in the Second Year.*

Candidates for Honours in the Second Year who have obtained Honours in the First Year may omit the lectures and examinations either in Modern Languages (or Hebrew) or Botany, giving notice of the subject at the beginning of the session.

#### *II. Candidates for Honours in the Third Year.*

Every Candidate for Honours in the Third Year must, in order to obtain exemptions, have passed the Intermediate Examination, and must in the Examinations of the Second Year have taken First Rank Honours if Honours, be offered in the subject, or, if not, First Class at the Ordinary Sessional Examinations in the subject in which he proposes to compete for Honours, and be higher than Third Class in the majority of the remaining subjects; such Candidates shall be entitled in the Third Year to exemption from lectures and examinations in any one of the subjects required by the general rule (see § III.), except that in which he is a Candidate for Honours. A Candidate for Honours in the Third Year who has failed to obtain Honours shall be required to take the same examinations for B.A. as the ordinary undergraduates.

#### *III. Candidates for B.A. Honours.*

A Student who has taken Honours of the first rank in the Third Year, and desires to be a Candidate for B.A. Honours, shall be required to attend two only of the courses of lectures given in the ordinary departments, and to pass the two corresponding examinations only at the ordinary B.A. Examination. Candidates however, who at the B.A. Examinations obtain Third Rank Honours, will not be allowed credit for these exemptions at the end of the Session, unless the Examiners certify that the knowledge shown of the whole Honour Course (Part II. as well as Part I.), is sufficient to justify it. A Student who has taken Second Rank Honours in the Third Year, and desires to be a Candidate for B.A. Honours in the same subject, shall be allowed to continue in the Fourth Year the study of the same departments that he has taken in the Third Year, but shall be required to take the same number of subjects as in the Ordinary Course.

NOTE.—For subjects of Ordinary Course see § III.

#### IV. Professional Students.

Students of the Third and Fourth Years, matriculated in the Faculties of Law, Medicine or Applied Science of the University, or in any affiliated Theological College, are entitled to exemption from any one of the Ordinary subjects required in the Third and Fourth Years. (For rule concerning "Special Certificates" see § VI.)

To be allowed these privileges in either year they must give notice at the commencement of the Session to the Dean of the Faculty of their intention to claim exemptions as Professional Students, and must produce at the end of the Session certificates of attendance on a full course of Professional Lectures during the year for which the exemption is claimed.

#### V. Students of the University attending Affiliated Theological Colleges.

1. Such Students, whether entered as Matriculated or Occasional, are subject to the regulations of the Faculty of Arts in the same manner as other students.

2. The Faculty will make formal reports to the Governing body of the Theological College which any such Students may attend, as to :— (1) their conduct and attendance on the classes of the Faculty; and (2) their standing in the several examinations; such reports to be furnished after the Christmas and Sessional Examinations severally, if called for.

3. Matriculated Students are allowed no exemptions in the course for the degree of B.A. until they have passed the Intermediate Examination; but they may take Hebrew in the First and Second Years, instead of French and German.

4. In the Third and Fourth Years they are allowed exemptions, as stated above.

\*Any Student who, under any of the above rules, desires to take Experimental Physics, is required to take Mechanics and Hydrostatics also, in the Third Year.

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#### § VI. MEDALS, HONOURS, PRIZES AND CLASSING.

1. GOLD MEDALS will be awarded in the B.A. Honour Examinations to Students who take the highest Honours of the First Rank in the subjects stated below, and who shall have passed creditably the Ordinary Examinations for the Degree of B.A., provided they have been recommended therefor to the Corporation by the Faculty on the report of the Examiners :—

The *Henry Chapman Gold Medal*, for the Classical Languages and Literature.  
The *Prince of Wales Gold Medal*, for Mental and Moral Philosophy.

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The *Anne Molson Gold Medal*, for Mathematics and Natural Philosophy.

The *Shakespeare Gold Medal*, for the English Language, Literature and History.

The *Logan Gold Medal*, for Geology and other Natural Sciences.

*Major Hiram Mills Gold Medal*, for a subject to be chosen by the Faculty from year to year.

If there be no Candidate for any Medal, or if none of the Candidates fulfil the required conditions, the Medal will be withheld, and the proceeds of its endowment for the year may be devoted to prizes in the subject for which the Medal was intended. For details, see announcements of the several subjects below.

2. HONOURS, of First, Second or Third Rank, will be awarded to those Undergraduates who have successfully passed the Examinations in any Honour Course established by the Faculty, and have also passed creditably the ordinary Examinations in all the subjects proper to their year.

In and after April, 1889, the Honour Examinations of the Third and Fourth Years will each be divided into two parts, separated by an interval of a few days, under the following regulations:—

*a.* No candidate will be admitted to Part II. unless he has shown a thorough and accurate knowledge of the course appointed for Part I.

*b.* The names of the successful candidates in Part I. will be announced before Part II. begins.

*c.* First or Second Rank Honours will be awarded to those candidates only who are successful in Part II.

*d.* Third Rank Honours will be awarded to those who are successful in Part I. only.

*By an Order of the Lieutenant-Governor of Ontario in Council, Honours in this University confer the same privileges in Ontario as Honours in the Universities of that Province, as regards certificates of eligibility for the duties of Public School Inspectors, and as regards exemption from the non-professional Examination of Teachers for First-class Certificates for Grades "A. and B."*

3. SPECIAL CERTIFICATES will be given to those candidates for B.A. who shall have been placed in the First Class at the ordinary B.A. Examination. The candidates must have obtained three-fourths of the maximum marks in the aggregate of the studies proper to their year, be in the First Class in not less than half the subjects, and have no Third Class. At this examination no candidate who has

taken exemptions (see § V.) can be placed in the First Class unless he has obtained First Class in each of the departments in which he has been examined.

4. CERTIFICATES of High General Standing will be granted to those Undergraduates of the first two years who have obtained three-fourths of the maximum marks in the aggregate of the Studies proper to their year, are in the First Class in not less than half the subjects, and have not more than one Third Class. In the Third Year the conditions are the same as for the Special Certificate for B.A.

5. PRIZES OR CERTIFICATES to those Undergraduates who may have distinguished themselves in the studies of a particular class and have attended all the other classes proper to their year.

6. A GOLD MEDAL is offered for the encouragement of the study of Modern Languages and Literature, with History, or for First Rank General Standing, as may be announced.

(a). The Regulations for the former are as follows :—

(1). The subjects for competition shall be French and German, together with the History part of the present Honour Course for the Shakespeare Medal.

(2). The course of study shall extend over two years, viz., the Third and Fourth years.

(3). The successful Candidate must be capable of speaking and writing both languages correctly.

(4). There shall be examinations in the subjects of the course in both the Third and Fourth Years, at which Honours may be awarded to deserving Candidates.

(5). The general conditions of competition, and the privileges as regards exemptions, shall be the same as for the other Gold Medals in the Faculty of Arts

(6). Students from other Faculties shall be allowed to compete, provided they pass the examination of the Third and Fourth Years in the above subjects.

(7). Candidates desiring to enter on the Third Year of the Course, who have not obtained First Class standing at the Intermediate or Sessional Examinations of the Second Year in Arts, are required to pass an examination in the work of the first two years of the course in Modern Languages, if called on to do so by the Professors.

(8). The subjects of Examination shall be those of the Honour Course in Modern Languages.

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(b) The Regulations for the Gold Medal, if awarded for First Rank General Standing, are as follows :—

(1). The successful candidate must take no exemptions or substitutions of any kind, whether Professional or Honour, in the Ordinary B.A. Examinations.

(2). He shall be examined in the following subjects :—

(a) *Classics* (both languages); (b) *Mixed Mathematics*;—*Mechanics, Hydrostatics, Optics, Astronomy*; (c) *Mental and Moral Philosophy*, and any *two* of the following subjects, or any *one* of them with its Additional Course; (d) *Natural Science*; (e) *Experimental Physics*; (f) *English and History*; (g) *French*; (h) *German*.

(3). His answering must satisfy special conditions laid down by the Faculty.

(4). The same candidate cannot obtain the Gold Medal for First Rank General Standing, and also a Gold Medal for First Rank Honours.

7. THE NEIL STEWART PRIZE of \$20 is open to all Undergraduates of this, and also to Graduates of this or any other University, studying Theology in any College affiliated to this University, under the following rules :—

(1). The prize will not be given for less than a thorough examination in Hebrew Grammar passed in the First Class, in reading and translating the Pentateuch and such poetic portions of the Scripture as may be determined.

(2). In case competitors should fail to attain the above standard the prize will be withheld, and a prize of Forty Dollars will be offered in the following year for the same.

[Course for the present year :—Hebrew Grammar (Gesenius); Translation and analysis of the first ten chapters of Genesis; the Prophet Habakkuk (the whole book); and the first five Psalms.]

(3). There will be two Examinations of three hours each : one in Grammar and the other in Translation and Analysis.

The Prize, founded by the late Rev. C. C. Stewart, M.A., and terminated by his death, was re-established by the liberality of the late Neil Stewart, Esq., of Vankleek Hill, and will be offered for competition next session.

8. EARLY ENGLISH TEXT SOCIETY'S PRIZE.—The prize, the annual gift of the Early English Text Society, will be awarded for proficiency in (1) Anglo-Saxon, (2) Early English before Chaucer.

The subjects of Examination will be :—

(1) The Lectures of the Third and Fourth Years on Anglo-Saxon.

(2 Specimens of Early English (Clarendon Press Series, ed. Morris and Skeat,) Part II., A.D., 1298—A.D., 1393. The Lay of Havelok the Dane (Early English Text Society, ed. Skeat).

9. NEW SHAKESPEARE SOCIETY'S PRIZE. This Prize, the annual gift of the New Shakspeare Society, open to graduates and undergraduates will be awarded for a critical knowledge of the following plays of Shakspeare :—

Hamlet ; Macbeth ; Othello ; King Lear.

10. The names of those who have taken Honours, Certificates or Prizes will be published in order of merit ; with mention, in the case of Students of the First and Second Years, of the schools in which their preliminary education has been received.

#### × § VII. LICENSED BOARDING HOUSES. ×

(Regulations for Students in Arts passed by the Corporation, April, 1875.)

1. All Students under 21 years of age, not residing with parents or guardians, nor belonging to a Theological College, shall reside in licensed boarding-houses, unless they produce written authority from parents or guardians to reside elsewhere.

2. Persons applying for a license to keep boarding-houses shall produce evidence satisfactory to the Principal as to their character and fitness, and the suitability of the house for the health and comfort of the Students. They shall also supply him with a statement of charges.

3. The keeper of the boarding-house shall report immediately to the Principal the entrance or departure of any Student, and any instance of immorality or disorderly conduct.

#### § VIII. ATTENDANCE AND CONDUCT.

All Students shall be subject to the following regulations for attendance and conduct :—

1. A Class-book shall be kept by each Professor or Lecturer, in which the presence or absence of Students shall be carefully noted ; and the said Class-book shall be submitted to the Faculty at all their ordinary meetings during the Session.

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2. Each Professor shall call the roll immediately at the beginning of a lecture. Credit for attendance on any lecture may be refused on the grounds of lateness, inattention or neglect of study, or disorderly conduct in the class-room. In the case last mentioned the student may, at the discretion of the Professor, be required to leave the class-room. Persistence in any of the above offences against discipline, after admonition by the Professor, shall be reported to the Dean of Faculty. The Dean may, at his discretion, reprimand the student, or refer the matter to the Faculty at its next meeting, and may in the interval suspend from Classes.

3. Absence from any number of lectures can only be excused by necessity or duty, of which proof must be given, when called for, to the Faculty. The number of times of absence, from necessity or duty, that shall disqualify for the keeping of a Session, shall in each case be determined by the Faculty.

4. While in the College, or going to or from it, students are expected to conduct themselves in the same orderly manner as in the Class-rooms. Any Professor observing improper conduct in the College buildings or grounds may admonish the student, and, if necessary, report him to the Dean.

5. Every student is required to attend regularly the religious services of the denomination to which he belongs, and to maintain, without as well as within the walls of the College, a good moral character.

6. When students are brought before the Faculty under the above rules, the Faculty may reprimand, report to parents or guardians, impose fines, disqualify from competing for prizes or honours, suspend from Classes, or report to the Corporation for expulsion.

7. Any student who does not report his residence on or before November 1st in each year is liable to a fine of one dollar.

8. Any student injuring the furniture or buildings will be required to repair the same at his own expense, and will, in addition, be subject to such other penalty as the Faculty may see fit to inflict.

9. All cases of discipline involving the interest of more than one Faculty, or of the University in general, shall be immediately reported to the Principal, or, in his absence, to the Vice-Principal.

[NOTE.—All students are required to appear in Academic dress while in or about the College building. Students are requested to take notice that petitions to the Faculty on any subject cannot, in general, be taken into consideration, except at the regular meetings, appointed in the Calendar.]

## § IX. LIBRARY.

*Extract from the Regulations.*

1. The Books in the Library are classed in two divisions;—1st, Those which may be lent; and, 2nd, those which may not, under any circumstances, be removed from the Library. The classification shall be determined by the Librarian.

X { 2. Students in the Faculty of Arts or of Applied Science, who have paid the Library fee, may borrow books on depositing the sum of \$5 with the Bursar, which deposit, after the deduction of any fines due, will be repaid at the end of the Session on the certificate of the Assistant Librarian that the books have been returned uninjured.

X { 3. Students may borrow not more than three volumes at one time, except on the recommendation in writing of a Professor for specified books, and must return them within two weeks, on penalty of a fine of 5 cents a volume for each day of detention. An additional deposit of \$4 entitles a student to borrow two extra volumes.

X { 4. A student incurring fines beyond the sum-total of \$1 shall be debarred the use of the Library until they have been paid.

X { 5. Any volume, or volumes, lost or damaged by any person shall be replaced or paid for at such rates as the Library Committee may direct; and such rate of payment shall be determined by the value of the book itself, or of the set to which the volume belongs.

6 Graduates in any of the Faculties, on making a deposit of \$5, are entitled to the use of the Library, subject to the same rules and conditions as students; but they are not required to pay the annual Library fee.

7. Graduates residing beyond the City limits, and applying for the loan of books from the Library, shall not receive such books without the sanction of the Honorary Librarian, and depositing the value of the books with the Bursar of the College.

8. Members of the McGill College Book Club, on presenting annually a certificate of their membership, are by a special regulation of Corporation entitled to the use of the Library on the same conditions as Graduates, but they are not required to make a deposit.

9. Students in the Faculties of Law and Medicine, who have paid the Library fee to the Bursar, may read in the Library, and, on depositing the sum of \$5 with the Bursar, may borrow books on the same conditions as students in Arts. They are required to present their Matriculation Tickets to the Bursar and to the Librarian or Assistant Librarian.

10. Persons not connected with the College may consult Books in the Library on obtaining an order from any of the Governors, or from the Principal, or the Dean of the Faculty of Arts or of Applied Science, or from any of the Professors in the said Faculties. Donors of books or money to the amount of Fifty dollars may at any time consult books on application to the Librarian.

X { 11. The Library is kept open from 9 a.m. to 4 p.m. daily, and no person shall be allowed in the Library except during these hours.

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12. No person, other than the Librarian and the assistants, is allowed to enter the alcoves, or to take down books from the shelves, except members of Corporation, and Professors, or those whom any of the above may accompany personally.

13. A person desiring to read or to borrow a book, which he has ascertained from the Catalogue to be in the Library, will fill up one of the blank forms provided for Readers and Borrowers respectively, and hand it to the Assistant Librarian who will thereupon procure him the book.

14. Readers must return the books they have obtained to the Assistant Librarian before leaving the Library.

15. No conversation is permitted in the Library.

§ X. PETER REDPATH MUSEUM.

1. The Museum will be open every lawful day from 9 a.m. till 5 p.m., except when closed for any special reason by order of the Principal or Committee.

2. Students will obtain tickets of admission from the Principal on application.

3. Students will enter by the front door only, except when going to lectures.

4. Any Student wilfully defacing or injuring specimens, or removing the same, will be excluded from access to the Museum for the Session.

§ XI. FEES.

All fees and fines are payable to the Bursar of the College.

<i>Matriculation Fee</i> for the First Year (to be paid in the Year of Entrance only).....	\$4 00	— 54
<i>For the Second Year</i> (exigible from Students who enter in the Second Year, and also from those who have failed in the First Year and re-enter in the Second Year on Examination).....	6 00	— 15
<i>Sessional Fee</i> .....	20 00	— 15
<i>Library Fee</i> .....	4 00	— 4
<i>Gymnasium Fee</i> .....	2 50	— 2 1/2
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## § XII. COURSES OF LECTURES.

## I. ORDINARY COURSE.

## I. CLASSICAL LITERATURE AND HISTORY.

(MAJOR H. MILLS PROFESSORSHIP OF CLASSICS.)

Professor, REV. G. CORNISH, M. A., LL.D.

Asst. Prof., A. J. EATON, M. A., PH.D.

## GREEK.

*First Year.*—HOMER.—ODYSSEY, Books XVII-XX. (Selections).*Second Year.*—EURIPIDES.—MEDEA.*Third Year.*—LYSIAS.—CONTRA ERATOSTHENEM.

ÆSCHYLUS.—PROMETHEUS VINCTUS.

*Fourth Year.*—ÆSCHINES.—CONTRA CTESIPHONTEM.

## LATIN.

*First Year.*—CICERO.—SELECT LETTERS.

VIRGIL.—Book VI.

*Latin Prose Composition.**Second Year.*—HORACE.—EPISTLES, Book II.

TACITUS.—GERMANIA, Chaps. I.-XXVII.

*Latin Prose Composition.**Third Year.*—JUVENAL.—SATIRES VIII. and XIII.

LIVY.—Book XXI.

*Latin Prose Composition.**Fourth Year.*—TACITUS.—ANNALS, Book II.*Latin Prose Composition.*

In the work of the Class the attention of the Student is directed to the collateral subjects of History, Antiquities and Geography; also to the grammatical structure and affinities of the Greek and Latin Languages; and to Prosody and Accentuation

An examination in Greek and Roman History will be required at the close of the First Year.

The Latin pronunciation adopted in the lectures, is based on the scheme issued by the Cambridge Philological Society (London: Trübner & Co).

In Greek, the system of pronunciation, outlined in the preface of Goodwin's Greek Grammar, is recommended to the attention of Students.

*Text-Books.*—First Year.—Goodwin's Greek Grammar, Arnold's Latin Prose by Bradley, Cox's General History of Greece, Merivale's General History of Rome-

## 2. ENGLISH LANGUAGE AND LITERATURE.

(MOLSON PROFESSORSHIP.)

Professor, CHAS. E. MOYSE, B.A.

Lecturer, PAUL T. LAFLEUR, M.A.

*First Year.*—English Language and Literature. Three lectures a week.

Until Christmas the work of the class will partly consist of exercises in Analysis and Composition. One lecture a week will be given to the study of an English classic. Milton's *Comus* has been selected for the Session of 1888-9. After Christmas there will be a course of about thirty lectures on English Literature, indicating the leading features of its development throughout its history. The use of Prof. Henry Morley's *Charts of English Literature* is recommended. Students are also recommended to read the first chapter of Henry Morley's *English writers* (Cassell, 1887.).

*Second Year.*—A period of English Literature, and one play of Shakespeare.

One Lecture a week before Christmas; two Lectures a week after Christmas.

During the Session of 1888-9, English Literature from the Elizabethan period will form the subject of the Lectures. Shakespeare—*Tempest*. [Clarendon Press Edition.]

*Third Year.*—*A.* Chaucer's Prologue to *Canterbury Tales*.

Lecture once a week.

Text-book, Chaucer's Prologue, &c., ed. Morris.

*B.* Rhetoric, Lecture once a week,

Text-book, Bain's *Rhethoric*.

*Fourth Year.*—History.

## 3. MENTAL AND MORAL PHILOSOPHY.

(JOHN FROTHINGHAM PROFESSORSHIP OF MENTAL AND MORAL PHILOSOPHY.)

Professor, REV. J. CLARK MURRAY, LL.D.

Lecturer, PAUL T. LAFLEUR, M.A.

*Second Year.*—First Term.—Elementary Psychology. (Text-book:—Murray's *Handbook of Psychology*, Book I.) Second Term.—Logic (Text-book:—Jevons' *Elementary Lessons in Logic*).

*Third Year.*—First Term:—The Logic of Induction, as in Mill's *System of Logic*, Book III. Second Term:—The Psychology of Cognition, as in Murray's *Handbook of Psychology*, Book II., Part I.

*Additional Course.*—See Honour Course.*Fourth Year*

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*Fourth Year.*—First Term.—The Psychological Basis of Ethics. Second Term.—Ethics Proper, comprising the elementary principles of Jurisprudence and Political Science.

For Additional Course see Honour Course.

In the Third and Fourth Years Students are also required to write occasional Essays on Philosophical Subjects.

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#### 4. FRENCH LANGUAGE AND LITERATURE.

Professor, P. J. DAREY, M.A., B.C.L., LL.D., Officier d'académie.

*First Year.*—DAREY, Principes de Grammaire française.

LA FONTAINE, Les Fables, livres I. et II.

MOLIÈRE, Le Bourgeois gentilhomme.

Dictation. Colloquial exercises.

*Second Year.*—DAREY, Principes de Grammaire française.

C. DELAVIGNE, Les Enfants d'Edouard.—RACINE, Iphigénie.

CONTANSEAU, Précis de littérature française, depuis son origine jusqu'à la fin du XVIIe siècle.

Translation into French :—DR. JOHNSON, Rasselas.

Dictation. Parsing. Colloquial exercises.

*Third Year.*—CORNEILLE, Le Cid.

Cogery :—Third French course.

Translation into French :—Dr. Johnson, Rasselas.

French Composition. Dictation.

CONTANSEAU, Précis de littérature française, depuis le XVIIe siècle jusqu'à nos jours.

*Fourth Year.*—Cogery.—Third French course.

BONNEFON, Les Ecrivains modernes de la France.

Translation into French :—MACAULAY, Warren Hastings.

French Composition. Dictation.

CORNEILLE, Le Cid.

For Additional Courses see Honour Lectures.

*The Lectures in the Third and Fourth Years are given in French.*

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#### 5. GERMAN LANGUAGE AND LITERATURE.

Professor, C. F. A. MARKGRAF, M.A.

*First Year.*—Schmidt's German Guide (1st Course). Adler's Progressive German Reader (selections from Sections 1 and 2). Translations, oral and written.

- Second Year.*—Schmidt's German Guide (2nd Course). Adler's Progressive German Reader (selections from Sections 3-5.) Townson, Easy German Stories. Translations, oral and written. Parsing.
- Third Year.*—Schmidt's German Guide (3rd Course.) Chamisso, Peter Schlemihl; Lessing, Minna von Barnhelm. History of German Literature from the earliest periods to the close of the 18th century (a brief survey by the Professor. Translation into German.
- Fourth Year.*—Whitney's German Grammar (excerpts); Fouqué, Undine; Schiller, Wallenstein. Moschzisker's Guide to German Literature (Epoch VII., Sections II-VI.; 1750-1850). Translation from English Prose writers. German Composition. For additional courses see Honour Lectures.

## 6. HEBREW AND ORIENTAL LITERATURE.

Professor, REV. D. COUSSIRAT, B.A., B.D., Officier d'académie.

*Elementary Course.*—Reading and Grammar with oral and written exercises in Orthography and Etymology.—Translation and Grammatical Analysis of Genesis.—Text-books, Harper's Elements of Hebrew; and Introductory Hebrew Method and Manual.

*Intermediate Course.*—Grammar.—Dr. Harper's "Elements and Method."—Translation from Genesis, Exodus, Deuteronomy.—Exercises:—Hebrew into English, and English into Hebrew.—Syntax.—Reading of the Masoretic notes.

*Advanced Course.*—Gesenius' Grammar.—Exercises continued.—Translation. Reading of the Masoretic notes.

*First Part:*—Isaiah; Psalms.

*Second Part:* Job; Ecclesiastes; Jeremiah.

The course comprises Lectures on the above Languages and their Literature in particular, with a general notice of the other Oriental Languages, their genius and peculiarities. Comparative Philology, affinity of Roots, &c., also receive due attention, while the portions selected for translation will be illustrated and explained by reference to Oriental manners, customs, history, &c.

For Additional Courses see Honour Lectures.

## 7. MATHEMATICS AND NATURAL PHILOSOPHY.

(PETER REDPATH PROFESSORSHIP OF NATURAL PHILOSOPHY.)

Professor, ALEXANDER JOHNSON, M.A., LL.D.

In the ordinary work of the First Year assistance will be given by G. H. Chandler, M.A., Professor of Practical Mathematics in the Faculty of Applied Science.

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MATHEMATICS.—(*First Year*)—Arithmetic—Euclid Books 1, 2, 3, 4, 6, with Definitions of Book 5 (omitting propositions 27, 28, 29, of Book 6); Todhunter's Edition—Colenso's Algebra (Part 1.) to end of Quadratic Equations.—Galbraith and Haughton's Plane Trigonometry to beginning of solution of Plane Triangles.

MATHEMATICS.—(*Second Year*)—Arithmetic, Euclid, Algebra, and Trigonometry as before.—Nature and use of Logarithms.—Remainder of Galbraith and Haughton's Plane Trigonometry.

The course for the Intermediate University Examination consists of the Mathematics for the first two years.

MATHEMATICAL PHYSICS.—(*Third Year*)—Galbraith and Haughton's Mechanics, viz., *Statics*, First 3 chapters, omitting sec. 5, chapter I., and sect. 21, chapter II.; *Dynamics*, subjects of the First 5 chapters. Galbraith and Haughton's Hydrostatics.

*Additional Department.*—Optics (Galbraith and Haughton). Descriptive Astronomy (Lockyer's Elementary Astronomy, English edition; First three chapters, viz., The Stars and Nebulæ; The Sun; The Solar System). Students are recommended to use with this an "Easy Guide to the Constellations," by Gall.

ASTRONOMY.—(*Optional*)—*Fourth Year.*—Galbraith and Haughton's Astronomy—The lectures on this subject will be given before Christmas.

EXPERIMENTAL PHYSICS.—(*Third and Fourth Years.*) 1.—*Light.*—Theories.—Reflection.—Refraction.—Dispersion.—Interference and Diffraction.—Double Refraction.—Polarization. 2.—*Heat.*—Dilatation of Solids, Liquids and Gases.—Specific and Latent Heat.—Radiation and Conduction.—Mechanical Theory of Heat. 3.—*Electricity*—Static and Dynamical:—including Electro-Magnetism—Magneto-Electricity—Thermo-Electricity—Diamagnetism—Electric Measurements—Practical Application to Telegraphy, &c. 4.—*Magnetism.* 5.—*Sound.*—Theory of Undulations—Production and Propagation of Sound—Vibrations of Strings, Rods and Plates—Vibrations of Fluids—Musical Sounds. Text-book;—Ganot's Treatise, translated by Atkinson. This Course extends over two Years.

The Subjects for the Session 1888-89 are Electricity, Magnetism and Sound.

The Lectures in Mathematical and Experimental Physics will be illustrated by Apparatus, of which the College has a very good collection, including Dynamo and Gas Engine.

## X 8. GEOLOGY AND NATURAL HISTORY. X

(LOGAN PROFESSORSHIP OF GEOLOGY.)

Professor, Sir J. Wm. DAWSON, C.M.G., LL.D., F.R.S., F.G.S.

B. J. HARRINGTON, B.A., Ph.D., F.G.S., Professor of Mineralogy.

X ZOOLOGY AND PALÆONTOLOGY. (*Third Year.*)—Elements of Animal Phy-

biology. Classification of Animals. Characters of the Classes and Orders of Animals, with Recent and Fossil Examples, taken as far as possible from Canadian Species. Demonstrations in the Museum.

— *Text-book*.—Dawson's Hand-book of Zoology, with books of reference—

A prize of \$25 will be given by the Professor for a collection of specimens of recent or fossil animals, accurately named. The Prize Collections or duplicates of them to remain in the Museum if required. Candidates must be Students of Zoology of the previous session, and the prize will not be awarded except for a collection of sufficient merit.

#### MINERALOGY AND GEOLOGY.—(Fourth Year.)

1. *Mineralogy and Lithology*. An elementary course, in which attention is given more particularly to such minerals and rocks as are important in Geology or useful in the Arts.

2. *Stratigraphy, Chronological Geology and Palæontology*. Data for determining the relative ages of Formations. Classification according to age. Fauna and Flora of the successive periods. Geology of British America. The lectures will be fully illustrated with specimens, and will be accompanied with demonstrations in the Museum and excursions for field work.

*Text-books*.—Dana's Manuals of Mineralogy and Geology; Dawson's Lecture Notes on Geology.

Students in Natural History are entitled to tickets of admission to the Museum of the Natural History Society of Montreal.

#### ADDITIONAL DEPARTMENT.—(Third and Fourth Years.)

See Honour Course § II., infra.

### ✕ 9. BOTANY. ✕

Professor :—D. P. PENHALLOW, B.Sc.

*Second Year*.—General Morphology and Classification. Descriptive Botany. Flora of Canada. Nutrition and reproduction of plants. Elements of Histology.

— *Text-Books*.—Gray and Bessey. ●

A book prize will be given by the Professor for the best collection of plants and the greatest proficiency in their determination. The collections will be returned after examination. Candidates must be Students of Botany of the previous Session.

#### ADDITIONAL COURSE.—(Third Year.)

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*Vegetable Histology.*—Two lectures with practical work, each week. Microscopical manipulations; Micro-Chemical reactions; general histology of Phaenogams. Microscopical Drawing.

ADDITIONAL COURSE.—(*Fourth Year*).

Two lectures with practical work, each week.

*Vegetable Histology.*—Two lectures with practical work, each week. A continuation of the Course in the third year, embracing a study of the structure and life history of Cryptogams.

Special studies in embryology.

No student will be admitted to the Course in the Fourth Year, without having followed that for the Third Year.

*Text-Books.*—Bower and Vines' Practical Botany. Gœbel's Outlines of Classification and special Morphology.

*Fee for Additional Course:* \$8 per session for use of instruments and reagents.

A prize will be awarded to the student showing the greatest proficiency in the work of the two years.

X IO. CHEMISTRY. X

(DAVID J. GREENSHIELDS PROFESSORSHIP OF CHEMISTRY AND MINERALOGY).

Professor:—B. J. HARRINGTON, B.A., PH.D.

*First Year.*—A course of Lectures preparatory to the Course in Natural Science. The Lectures are illustrated by experiments, and treat of the Elementary Constitution of matter, the laws of Chemical Combination by weight and volume, the Atomic Theory, Quantivalence, Chemical Formulæ and Equations, Chemical Attraction, characteristics of Acids, Bases and Salts, Compound Radicals, the preparation and properties of the non-metallic and metallic Elements and many of their compounds, &c. A few Lectures are also devoted to the consideration of some of the more important Organic Substances, including Starch, Sugars, the Vegetable Acids and Alkaloids, Alcohol, &c. During the Course attention is called, as far as possible, to the relations of Chemistry to various manufacturing industries.

Students in Arts may attend the course in Practical Chemistry with the First Year in Applied Science on payment of a fee of five dollars.

— *Text-Book.*—Nichol's Abridgment of Eliot and Storer's Manual of Chemistry —

ADDITIONAL DEPARTMENT.—(*Third Year.*)

(*Theoretical or Organic Chemistry*).—One lecture a week. (*Practical Chemistry*).—Qualitative Analysis, as in Thorpe and Muir's Qualitative Chemical Analysis, two afternoons a week.

ADDITIONAL DEPARTMENT.—(*Fourth Year.*)

A course of Practical Chemistry, in continuation of that of the Third Year.

NOTE.—New chemical laboratories, capable of accommodating about fifty students, have recently been erected, and afford excellent facilities for practical work.

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11. METEOROLOGY.

Superintendent of Observatory, C. H. McLEOD, MaE.

Instructions in Meteorological Observations will be given in the Observatory, at hours to suit the convenience of the senior students.

Certificates will be granted to those students who pass a satisfactory examination on the construction and use of Meteorological Instruments and on the general facts of Meteorology.

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X 12. ELOCUTION. X

MR. JOHN ANDREW, Instructor.

Students are recommended by the Faculty to avail themselves of the Instructions of Mr. Andrew, who will make arrangements for evening classes to meet during the Session.

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X 13. GYMNASTICS. X

MR. FREDERICK S. BARNJUM, Instructor.

The classes will meet at the University gymnasium, at hours to be announced at the commencement of the Session. The Wicksteed gold, silver and bronze medals (the gift of Dr. R. J. Wicksteed) are offered for competition to students of the graduating class, and to students who have had instruction in the gymnasium for two sessions, the gold medal to the former, the silver and bronze medals to the latter. (See Regulations appended.)

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II. HONOUR COURSES.

I. CLASSICS.

THIRD YEAR.

The Authors to be read in Class, and privately by the Candidate, together with the History and other subjects, are selected at the commencement of the Session, and are divided into *Part I.*, and *Part II.*, at the Honour Examination.

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## R A. HONOURS.

*Part I.*—(1) *Greek Authors*:—Æschylus, Prometheus Vincetus; Sophocles, Antigone; Euripides, Medea; Herodotus, Bk. IX.; Xenophon, Hellenics, Bks. I. and II.; Æschines, Contra Ctesiphontem. (2) *Latin Authors*:—Horace, Satires, Bk. I.; Juvenal, Satires VIII. and XIII.; Persius, Satires, V. and VI.; Livy, Bk. XXI.; Tacitus, Annals, Bk. II.; Cicero, De Officiis. (3) *Greek and Latin Prose Composition*:—As in Arnold's Greek Prose and Smith's Principia Latina, Part V.

*Part II.*

## I. GREEK.

Plato.—Republic, Books I. and II.  
 Aristotle.—The Poetics.  
 Herodotus.—Book VIII.  
 Thucydides.—Books VI. and VII.  
 Hesiod.—Works and Days.  
 Æschylus.—Seven against Thebes.  
 Aristophanes.—The Frogs.  
 Pindar.—Olympic Odes.  
 Theocritus.—Idylls I. and VI.  
 Demosthenes.—De Corona.

## II. LATIN.

Livy.—Books XXII. and XXIII.  
 Tacitus.—Annals, Book I.  
 “ Histories, Book I.  
 Virgil.—Æneid, Books I. to IV.  
 Plautus.—Aulularia.  
 Terence.—Adelphi.  
 Juvenal.—Sat. X.  
 Cicero.—De Imperio Cn. Pompeii.

## III. HISTORY OF GREECE AND ROME.

*Text-books* :—

1. Grote's History of Greece.
2. Arnold's History of Rome.
3. Mommsen's History of Rome.
4. Mahaffy's History of Greek Literature.
5. Cruttwell's History of Roman Literature.
6. Cruttwell and Banton's Specimens in Roman Literature.
7. Donaldson's Theatre of the Greeks.

## IV. COMPOSITION.

1. Composition in Greek and Latin Prose.

2. General paper on Grammar, History and Antiquities.

The Examination for B.A. Honours will extend over — days, in the morning from 9 to 12, and the afternoon 2 to 5.

## 2. MENTAL AND MORAL PHILOSOPHY.

## THIRD YEAR.

*Part I.*—Schwegler's History of Philosophy, Chapters 1-21 inclusive; Mill's System of Logic, Books IV. and V.; Murray's Handbook of Psychology, Book II., Parts 2 and 3; Thomson's Outlines of the Laws of Thought.

Any two of these subjects, along with the Honour Lectures, may be taken as the Additional Course.

*Part II.*—Cicero's De Finibus, Books I. and II.; Fraser's Selections from Berkeley.

## FOURTH YEAR.

*Part I.*—Schwegler's History of Philosophy, Chapters 22-45 inclusive; Lorimer's Institutes of Law; Murray's Outline of Hamilton's Philosophy; Spencer's First Principles; Mill's System of Logic, Book V.

Any two of these subjects, along with the Honour Lectures, may be taken as the Additional Course.

*Part II.*—Aristotle's Nicomachean Ethics; Zeller's Stoics, Epicureans and Sceptics; Spinoza's Ethics; Watson's Philosophy of Kant in Extracts; Maine's Ancient Law.

N.B.—The class essays of candidates for Honours are expected to display superior ability in the discussion of philosophical subjects.

## 3. ENGLISH LANGUAGE, LITERATURE AND HISTORY.

## THIRD YEAR.

*Part I.*—Early English; Morris and Skeat, Part II., Extt. I.-IX., inclusive.

Spenser.—Faerie Queene, Bk. I.

Milton—Comus.

Burke—Reflections on the French Revolution.

Hallam—Middle Ages, chaps. 1, 3, 5.

(The above mentioned portion of the Honour work constitutes the Additional Course of the Third Year.)

Sweet's Anglo-Saxon Reader ; Extt. IV., VIII. and XXI.

Dryden—Annus Mirabilis ; Absalom and Achitophel, Part I. ; the Preface to the " Fables."

Macaulay—Essays on Clive, Ranke's History of the Popes, and Warren Hastings.

*Part II.*—Sweet's Anglo-Saxon Reader ; the pieces in verse.

Chaucer—Assembly of Fowles, (ed. Lounsbury.)

Sidney—An Apologie for Poetry, (ed. Arber, to be obtained by post from the editor, 1 Montague Road, Edgbaston, Birmingham, price 6d.)

Milton—Shorter English Poems ; Areopagitica, (ed. Hales).

Addison—Essays on Paradise Lost and on the Imagination, (Spectator).

Wordsworth—Prelude, (Moxon's edition).

Leslie Stephen—English Thought in the Eighteenth Century, vol. II., chap. X., sections V.-X. inclusive.

Macaulay, vol. I., chap. I.

History of the English People—(Reign of Eliz. and Chas. II.).

#### FOURTH YEAR.

*Part I.*—Sweet's Anglo-Saxon Reader, Extt. II., XIII., XX.

Pope—Essay on Criticism ; Essay on Man.

Shelley—Adonais.

Tennyson—In Memoriam.

Buckle—History of Civ. in England, 4 chaps.

(The above-mentioned portion of the Honour work constitutes the Additional Course of the Fourth Year.)

Early English ; Morris and Skeat, Part II., Extt. X.-XX. inclusive.

Shakspeare—Love's Labour's Lost, A Midsummer Night's Dream, Hamlet.

Matthew Arnold—Essays in Criticism (the second).

*Part II.*—Portions of Beowulf, (ed. Harrison and Sharp).

Sweet's Second Anglo-Saxon Reader ; Vespasian Hymns.

Sir Thomas More—Utopia (ed. Arber).

Villiers—Rehearsal (ed. Arber).

Campbell—Pleasures of Hope.

Tennyson—Coming of Arthur, Gareth and Lynette, Holy Grail, Passing of Arthur.

Gibbon—Decline and Fall, chaps. L., LI., LXIV., LXV.

Guizot—History of Civilization in Europe.

Macaulay—Vol. I., chap. 3.

Freeman—Growth of the English Constitution.

## 4. MATHEMATICS AND PHYSICS.

**MATHEMATICS.**—(*First Year.*)—McDowell's Exercises on Modern Geometry, &c.—Hall and Knight's advanced Algebra—Todhunter's or Burnside and Panton's Theory of Equations (selected course).

The Honour lectures in the First Year begin after Christmas. Candidates will be examined on the first half of McDowell's Exercises before admission to them.

**MATHEMATICS.**—(*Second Year.*)—Hind's Plane and Spherical Trigonometry or Lock's Higher Trigonometry and McClelland and Preston's Spherical Trigonometry, Part I.—Salmon's Conic Sections, chapters 1, 2, 3, 5, 6, 7, and 10 to 13, inclusive—Williamson's Differential and Integral Calculus (selected course).

**MATHEMATICAL PHYSICS.**—(*Third Year.*)

*Part I.*—1. Minchin's Statics, vol. I., selected chapters.

2. Williamson and Tarleton's Dynamics, chaps. 1 to 8, inclusive.

*Part II.*—Remainder of Minchin's Statics. Vol. I.

Besant's Hydromechanics Part I, Chaps. 1, 2, 3, 7.

Godfray's Astronomy.

Parkinson's Optics.

## B.A. HONOUR COURSE.

*Part I.*—**MATHEMATICAL PHYSICS.**—Honour Course of the Third Year (the whole).

**PURE MATHEMATICS.**—Williamson's Differential and Integral Calculus.

Salmon's Geometry of Three Dimensions (selected course).

*Part II.*—**PURE MATHEMATICS.**—Boole's Differential Equations (selected course).

**MECHANICS.**—Minchin's Statics, vol. II, except chapters 14 and 18.—

Williamson & Tarleton's Dynamics (the whole, including the Dynamics both of Rigid Bodies and of a Particle).—Routh's Dynamics of a Rigid Body (for reference).—Besant's Hydromechanics.

**PHYSICAL ASTRONOMY.**—Godfray's Lunar Theory, or Cheyne's Planetary Theory.

Newton's Principia, Lib. I., Sects. 1, 2, 3, 9, and 11.

**LIGHT.**—Lloyd's Wave Theory of Light.

**ELECTRICITY AND MAGNETISM.**—Ordinary Course, with Cuming's Theory of Electricity and Maxwell's Elementary Electricity.

HEAT, }  
ACOUSTICS, } As in ordinary course.

Engineering students may be candidates for Honours.

## 5. NATURAL HISTORY AND GEOLOGY.

## THIRD YEAR.

## Part I.

(1) *Mineralogy*.—Crystallography. Physical properties of minerals dependent upon light, electricity, state of aggregation, etc. Chemical composition. Principles of classification. Description of species important as constituents of Rocks.

## Part II.

(2) *Blowpipe Analysis and Determinative Mineralogy*.

(3) *Lithology*.—Classes of Rocks, Texture and Composition. Description of the more commonly occurring Rocks.

4) Directions for collection and study in the vacation.

## B.A. HONOUR COURSE.

## Part I.

(1) *Mineralogy and Lithology*.—Description of mineral species, particular attention being called to the Economic Minerals of Canada. Calculations of mineralogical Formulæ, Quantivalent Ratios, etc.

(2) *Practical Geology*.—Including methods of observing and recording geological facts and searching for mineral deposits. *Palæontology*, including studies of special groups of fossils. One lecture or demonstration weekly. Dana's Manual. (Geikie's Field Geology, Nicholson's Palæontology, special Reports and Memoirs.)

## Part II.

(3) *Lithology*.—Essential and accessory constituents of Rocks. Macroscopic and microscopic characters. Preparation of Rock-sections. Microscopic examination of Minerals and Rocks. Principles of classification. Description and determination of Rocks. (One lecture weekly, with occasional demonstrations in the Museum or Laboratory.)

(4) *Canadian Geology*.—Studies of the several Geological formations of Canada with their distribution, subdivisions and characteristic fossils. One lecture weekly with excursions and Museum demonstrations. Reports of Geological Survey, Dawson's Acadian Geology.

Candidates for Honours will be expected to attain to such proficiency as to be able to undertake original investigations in some at least of the subjects of study.

Students in the Faculty of Applied Science may be Candidates for Honours.

## ADDITIONAL DEPARTMENT.

*Third Year*.—Mineralogy as in Part I above.

*Fourth Year*.—The Practical Geology, as in Part I. above, with Museum studies in Palæontology.

## 6. MODERN LANGUAGES.

(French and German, both of which must be taken.)

## THIRD YEAR.

*Part I.*—FRENCH.—LA FONTAINE, *Les Fables*.RACINE, *Les Plaideurs*.PAUL ALBERT, *Littérature du XVIIe siècle*.Translation into French :—GOLDSMITH, *The Vicar of Wakefield*.CORNEILLE, *Horace*.GERMAN.—Koerne., *Leyer und Schwert*; Freytag, *Aus dem Staat Friedrichs des Grossen*; Schiller, *Wilhelm Tell*. Translation from English Prose writers.

(Either of the above may be taken as the Additional Course in the language to which it belongs. See § III.)

The Ordinary Courses in French and German must also be taken. See § III.

*Part II.*—FRENCH.—Racine :—*Phèdre*; *Les Plaideurs*. Boileau :—*L'Art Poétique*. Pascal :—*Les Pensées*. La Bruyère :—*Les Caractères*. Ampère :—*Formation de la Langue française*.GERMAN.—Wieland.—*Oberon*. Schleicher.—*Die Deutsche Sprache (History of the German Language)*.*History of German Literature from 1750*, being a critical review of the principal writers of the classical period. The men of 'Sturm und Drang.' The Romantic Schools. Modern Lyric Poets. (Gostwick and Harrison's *Outlines*).

## FOURTH YEAR.

*Part I.*—FRENCH.AUG. BRACHET, *Grammaire historique*.PAUL ALBERT, *La Littérature française, des origines à la fin du XVIe siècle*.EMILE SOUVESTRE, *Un Philosophe sous les toits*.Translation into French :—*As You Like it*.GERMAN.—Whitney's *German Grammar (cont.)*Goethe, *Iphigenie auf Tauris*.Lessing, *Nathan der Weise*.Schiller, *Geschichte des dreissigjährigen Krieges*.

(Either of the above may be taken as the Additional Course in the language to which it belongs.)

The Ordinary Courses in French and German must also be taken.

*Part II.—FRENCH.*

- Molière :—Le Misanthrope.  
 Victor Hugo :—Hernani.  
 La Rochefoucauld :—Les Maximes.  
 Dr. C. Saucerotte :—L'esprit de Montaigne.  
 Auguste Brachet :—Grammaire historique.  
 Etudes des anciens textes français (Demogeot).

## GERMAN.

- A special study of Goethe's 'Faust' (Part I.)  
 Selections from Heine's Lyrical Poems.  
 Schleicher.—Die Deutsche Sprache.  
 German Literature from 1150 to 1350 :—Mediæval classic writers—Epic,  
 Lyric and Didactic Poetry— (Kurz, Leitfaden zur Geschichte der deutschen  
 Literatur).

For First and Second Rank Honours the successful candidates must be capable of speaking and writing both languages correctly.

## 7. SEMITIC LANGUAGES.

## THIRD YEAR.

- Part I.—Hebrew.*—Genesis (the whole Book).  
 Isaiah, chaps. 40-66.  
*Chaldee.*—Daniel.  
*Syriac.*—The Peshito : St. John, chaps. 1-5.  
*Literature.*—Driver's "Uses of the Tenses in Hebrew."  
*Part II.—Hebrew.*—Ecclesiastes (the whole Book).  
 Psalms, Books 1 and 2 (1-72).  
*Chaldee.*—Targum of Onkelos, Genesis, chaps. 1-10.  
*Syriac.*—The Peshito : Romans, chaps. 1-5.  
*Literature.*—Davidson's "The Hebrew Text of the Old Testament."

## FOURTH YEAR.

- Part I.—Hebrew.*—Proverbs, chaps. 20-31.  
 Job, chaps. 27-42.  
*Chaldee.*—Ezra.  
*Syriac.*—The Peshito ; St. John, chaps. 6-15.  
*Literature.*—Muller's "Outlines of Hebrew Syntax."

*Part II.—Hebrew.*—Deuteronomy (the whole Book.)

Malachia (id.).

*Chaldee.*—Selections from the Targums of Jonathan Ben Uzziel, etc.

*Syriac.*—Bar Hebræus: Selections from his Chronicles.

*Literature.*—Renan's "A general History of the Semitic Languages."

*Additional Department:—(for Third and Fourth Years.)*

*The Chaldee Language:—*Brown's Aramaic Method and Translation.

The Chaldee portions of Scripture. Targums of Onkelos and Jonathan Ben Uzziel.

*The Syriac Language:—*Grammar, Translation from the Peshito.

*Notice to Candidates for Entrance.*

FRENCH.

Candidates are expected to have some elementary knowledge of this subject. If not qualified to attend the lectures they are required, either to prepare for the examination with the aid of private tuition, or else to study German.

(a) During First Term. (b) Second Term. (c) For beginners entering and Year. † For Candidates for Honours.  
 \* The Student may take at his option French or German in the first two years, or, if a Theological Student, Hebrew. ‡ From Nov. 1st.  
 Classes at 1 p.m. may be changed to other hours.  
 Library open every day, 9 to 4. The Museum will be opened as arranged by the Professor of Natural History.  
 Determinative Mineralogy, Wednesday, at 2 p.m. Practical Chemistry, Monday and Thursday, at 2 p.m.

*4th maximum from 5-6 P.M. Tues, + Thurs, + 4-6 P.M. Sat  
 Undergraduate Literary Society - Friday evenings.*

LECTURES IN THE UNDERGRADUATE COURSE IN THE FACULTY OF ARTS.

SESSION OF 1888-89.  
*Mr. B. C. H. P. 2-4.30 P.M.  
 Mr. B. C. H. P. 4-6 P.M.  
 Mr. B. C. H. P. 4-6 P.M.  
 Mr. B. C. H. P. 4-6 P.M.*

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
FIRST YEAR.	9 10 11 12 Classics, Mathematics, English, <i>11 47 1/2</i> , Elementary Chemistry.	† Mathematics. (b) Classics, * French, * German, * Hebrew.	Mathematics. Classics, * French, English, <i>12 47 1/2</i> .	† Mathematics. (b) Classics, * French, * German, * Hebrew.	Mathematics. Classics, English, <i>11 47 1/2</i> , Elementary Chemistry.
SECOND YEAR.	9 10 11 12 * French, Classics, Mathematics, † Mathematics. Botany.	Logic. * German, Hebrew, Classics, * German. (c)	* French, Logic, † Mathematics. Botany, English.	* Hebrew, Logic, Classics, * German (c)	* French, * German, † Mathematics, Classics.
THIRD YEAR.	9 10 11 12 English Literature. German, † Math. Physics † Mental Philosophy, Mental Philosophy.	Classics, French, † Ment. Phil. (Zoology) ‡ Physics (Experimental), Hebrew.	† Classics, † Math. Phy. † Anglo-Saxon, Physics (Mathematical), Mental Philosophy, Classics.	Classics, French, Theoretical, (Chemistry) (Zoology) ‡ Physics (Experimental), Hebrew.	† Classics, † English, † Geol. † Mathematical Physics. * Syrac, etc. Rhetoric, Physics (Mathematical). German.
FOURTH YEAR.	9 10 11 12 † Math. Physics, † English Geology. <i>10 47 1/2</i> Classics, † Geology. Moral Phil. <i>and in evening - 7 1/2 P.M.</i>	Astronomy. (a) French, † Ment. Phil. German, Moral Philosophy, Chaldee ‡ Physics (Experimental). <i>4 P.M. - 5 1/2 P.M.</i>	† Classics, Geology. <i>5 1/2</i> English Literature. <i>Hebrew</i> Classics. † Geology, † Math. Phy. <i>and in evening - 7 1/2 P.M.</i>	Astronomy. (a) † Mental Phil. phy. German, History, Moral Philosophy, Chaldee ‡ Physics (Experimental), * Hebrew. <i>4 P.M. 5 - 6 P.M.</i>	† Classics, Geology. <i>10 47 1/2</i> French, † Geology, Saxon and Early English, German, † Math. Physics.

(a) During First Term. (b) Second Term. (c) For beginners entering and Year. † For Candidates for Honours.  
 \* The Student may take at his option French or German in the first two years, or, if a Theological Student, Hebrew. ‡ From Nov. 1st.  
 Library open every day, 9 to 4. The Museum will be opened as arranged by the Professor of Natural History.  
 Determinative Mineralogy, Wednesday, at 2 p.m. Practical Chemistry, Monday and Thursday, at 2 p.m.

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# Special Course for Women

IN THE FACULTY OF ARTS.

DONALDA ENDOWMENT.

The classes for women under this endowment are wholly separate, except those for Candidates for Honours (including most of the additional courses in the Third and Fourth Years). The examinations are identical with those for men. Women will have the same privileges with reference to Classing, Honours, Prizes and Medals as men.

Regulations for Examinations, Exemptions, Boarding Houses, Attendance, Conduct, Library and Museum are the same as for men. Undergraduates only wear the Academic Dress.

The *Jane Redpath Exhibition* is open for competition, at entrance into the First Year, to both men and women.

The income of the *Hannah Willard Lyman Memorial Fund* will be given in prizes.

## I. MATRICULATION AND ADMISSION.

*In Classics.—Latin.*—Cicero, Orations I. and II. against Catiline; or, Virgil *Æneid*, Book I. or Book II.; Latin Grammar.

*Greek.*—Xenophon, *Anabasis*, Book I.; or, Homer, *Iliad*, Book I.; Greek Grammar.

Candidates who cannot pass in Greek may substitute an additional modern language in the course.

*In Mathematics.*—Arithmetic; Algebra, to Simple Equations (inclusive); Euclid *Elements*, Books I., II., III.

*In English.*—Writing from Dictation. A paper on English Grammar, including *Analysis*. A paper on the leading events of English History. Essay on a subject to be given at the time of the Examinations.

An equivalent amount of other books or other authors in Latin and Greek than those named may be accepted by the Examiners on application made through the Professor of Class.cs.

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**PARTIAL STUDENTS.**—Candidates unable to pass in all the above subjects may be admitted as Partial Students, in the separate classes; if prepared to enter in three of the subjects of the ordinary course of study they may in the First Year make good their standing as Undergraduates at the Christmas or Sessional Examinations.

**OCCASIONAL STUDENTS.**—Ladies desirous of taking one or two Courses of Lectures in the separate classes for women, as Occasional Students, may procure from the Secretary of the University tickets for the Lectures they desire to attend.

## II. ORDINARY COURSE OF STUDY FOR THE DEGREE OF B.A.

(*In separate classes.*)

*First Year.*—Classics; French or German; English Grammar and Literature; Pure Mathematics; Elementary Chemistry.

*Second Year.*—Classics; French or German; English Literature; Elementary Psychology and Logic; Pure Mathematics; Botany.

*Third Year.*—Latin or Greek; Mathematical Physics (Mechanics and Hydrostatics); with any three subjects out of the two following divisions at the option of the student, provided two be selected from one division, and one from the other.

*I. Literature, etc.*—(a) Greek or Latin, according as Latin or Greek has been previously chosen. (b) French or German whichever has been taken in the first two years. (c) English and Rhetoric. (d) Mental Philosophy.

*II. Science.*—(e) Optics and Descriptive Astronomy. (f) † Experimental Physics (First Course). (g) Natural Science (Zoology).

*Fourth Year.*—Latin or Greek (same language as in Third Year); Mathematical Physics (as in Third Year) or Astronomy and Optics; Moral Philosophy; with any three subjects out of the two following divisions at the option of the student, provided two be selected out of the one division, and one out of the other:—

*I. Literature, etc.*—(a) Greek or Latin, according as Latin or Greek has been taken above. (b) French or German, same language as in Third Year. (c) History.

*II. Science.*—(d) Astronomy and Optics, if not chosen as above. (e) † Experimental Physics (Second Course). (f) Natural Science (Geology).

† Undergraduates claiming exemptions (see § V.) cannot take Experimental Physics if they have not taken the Third Year Mathematical Physics.

Instead of two distinct subjects in one of the above divisions, the Student in either Third or Fourth Year, may select one subject only, together with an additional course in the same or any other of these subjects under the above rules (if arrangements be made by the Faculty for it), provided she has been placed in the first class in the corresponding subject at the preceding Sessional Examination (viz. Intermediate or Third Year, according to standing).

The additional course is intended to be more than an equivalent, in the amount of work involved, for any of the other subjects in the division.

Additional courses are provided at present in Botany and Practical Chemistry.

HONOUR COURSE AND ADDITIONAL COURSES.

(In mixed classes.)

Undergraduates desirous to take one of the Honour Courses in Classics, Mathematical Physics, Mental and Moral Philosophy, English Language and Literature, History, Geology and other Natural Sciences, Modern Languages or such portions of the Honour Courses as constitute the "Additional Courses," may in the Third and Fourth Years obtain exemptions to the same extent as those given to men, but must take the same lectures with men.

Details will be found in Section XII. of the Calendar.

III. DEGREES.

Students are admissible to the degrees of B.A., M.A., and I.L.D. conferred in the usual way on the usual conditions, and will be entitled to all the privileges of these degrees, except that of being elected as Fellows.

IV. FEES.

<i>Matriculation Fee</i> for the First Year (to be paid in the Year of Entrance only).....	\$4 00
<i>Sessional Fee</i> .....	20 00
<i>Library Fee</i> (optional).....	4 00

*Partial Students*, viz., those taking three or more Courses of Lectures, are required to pay the Matriculation Fee, and \$5 for each Course which they attend, or \$20 for all the Courses.

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The above Fees are to be paid to the Registrar of the University, from whom, Tickets for the Library and copies of the Library Rules may be obtained.

*Occasional Students*—\$5 for each class.

[Associates in Arts, who, at their special Examination, have passed in Latin, Algebra and Geometry, are not required to present themselves for the Matriculation Examination.]

Exemptions from fees may be allowed to the highest pupil of the Girl's High School of Montreal, and of other Schools, on the same terms as men.

One exemption from tuition fees is annually allowed to the pupil (boy or girl) from the Schools of the Protestant commissioners, Montreal, who has taken the highest marks at the A. A. Examinations, and is recommended by the Commissioners.

#### V. LODGINGS.

Women not resident in Montreal, proposing to attend the classes, and desiring to have information as to suitable lodgings, are requested to intimate their wishes in this respect to the Registrar of the University at least two weeks before the opening of the session.

It is expected that arrangements may be made with some of the Ladies' Schools in the city to receive students desiring accommodation as borders.

N.B.—*The Students will have the aid and oversight of a competent Lady Superintendent.*

#### LECTURES OPEN TO OCCASIONAL STUDENTS, SESSION 1888-9.

✓ CHEMISTRY :—

*Dr. Harrington.*

Tuesday and Thursday at 12.

✓ BOTANY :

*Prof. Penhallow.*

Monday at 3, Wednesday at 12.

✓ ZOOLOGY :—

*Sir Wm. Dawson.*

Tuesday and Thursday, at 12 noon.

GEOLOGY :—

*Sir W. Dawson and Dr. Harrington.*

Tuesday and Thursday, at 2 p.m.

Wednesday, at 10 a.m.

EXPERIMENTAL PHYSICS :—

*Dr. Johnson.*

Tuesday and Thursday, at 3 p.m.

PSYCHOLOGY AND LOGIC :—

*Rev. Dr. Murray and Mr. Lafleur.*

Tuesday, Thursday and Friday, at 4 p.m.

MENTAL PHILOSOPHY :—

*Rev. Dr. Murray and Mr. Lafleur.*

Monday and Wednesday, at 4 p.m.

MORAL PHILOSOPHY :—

*Rev. Dr. Murray.*

Tuesday, Wednesday, and Thursday at 12.

✓ RHETORIC :—

*Mr. Lafleur.*

Wednesday, at 11 a.m.

✓ ENGLISH :—

*Prof. Moyses and Mr. Lafleur.*

Language and Literature,

Tuesday, Wednesday and Friday, at 4 p.m.

Literature of Elizabethan and Stuart periods and Shakespeare,  
Wednesday and Friday, at 3 p.m. (only one lecture a  
week before Christmas).

Chaucer—Monday, at 10 a.m.

✓ HISTORY :—

*Prof. Moyses.*

Thursday, at 9 a.m.

LATIN AND GREEK\* :—

*Rev. Dr. Cornish and Dr. Eaton.*

? { ✓ FRENCH\* :—

*Dr. Darcy.*

? { ✓ GERMAN\* :—

*Prof. Markgraf.*

MATHEMATICS AND MATHEMATICAL PHYSICS\* :—

*Dr. Johnson and Prof. Chandler.*

Those Courses, in which two lectures weekly are delivered, will  
each amount to about 40 lectures, and the others in proportion.

\* The Lectures on these subjects extend over all the Years of the Course, and the hours will  
depend on the standing of Students with respect to previous preparation.

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YEARS	F
FIRST YEAR.	—
SECOND YEAR.	—
THIRD YEAR.	—
FOURTH YEAR.	—

The hours  
of the Session  
\* For Hours

**FACULTY OF ARTS.**

\*ORDINARY LECTURES IN THE DONALDA SPECIAL COURSE FOR WOMEN.

YEARS	HOURS.	MONDAY.	TUESDA .	WEDNESDAY.	THURSDAY	FRIDAY.
<b>FIRST YEAR.</b>	12		Chemistry.		Chemistry.	
	2	Mathematics.	French.	Mathematics.	French.	Mathematics.
	3	Latin.	German.	Latin.	Latin.	German.
	4	Greek.	English.	English.	Greek.	English.
<b>SECOND YEAR.</b>	10	Mathematics.				
	11	Greek.				
	12			Botany.		
	2	Latin.		Latin.	German.	
	3	Botany.	French.	English.	French.	English.
	4	German.	Logic.	Greek.	Logic.	Logic.
<b>THIRD YEAR.</b>	10	English.	Classics.		Classics.	French.
	11	French.		Rhetoric.	German.	
	12	Classics.	Zoology.	Math. Physics.	Zoology.	Math. Physics
	3	German.	Exp. Physics	English.	Exp. Physics.	
	4	Metaphysics.		Metaphysics.		
<b>FOURTH YEAR.</b>	9				History.	
	10	French.	Astronomy.	Geology.	Astronomy.	French.
	11	German.	Classics.		Classics.	
	12		Moral Phil.	Moral Phil.	Moral. Phil.	
	2		Geology.		Geology.	German.
	3		Exp. Physics.		Exp. Physics.	

The hours for Practical Chemistry and Additional Botany will be arranged at the beginning of the Session.

\* For Honour Lectures see previous table.

# Faculty of Applied Science.

THE PRINCIPAL (*ex-officio*).

Professors :—	Associate Professors :—	DAWSON,
		MARKGRAF,
		JOHNSON,
		DAREY,
		MOYSE,
		PENHALLOW,
Assistant :—	Associate Lecturer :—	LAFLEUR.
EVANS.		

Dean of the Faculty :—HENRY T. BOVEY, M.INST. C.E.

The Instruction in this Faculty is designed to afford a complete preliminary training, of a technical as well as theoretical nature, to such Students as are preparing to enter any of the various branches of the professions of Engineering and Surveying, or are destined to be engaged in Assaying, Practical Chemistry, and the higher forms of Manufacturing Art.

Four distinct Departments of study are established, viz. :

(1).—Civil Engineering and Surveying, (2).—Mechanical Engineering, (3).—Mining Engineering, (4).—Practical Chemistry.

Each of these extends over four, or, under certain conditions three years, and is specially adapted to the prospective pursuits of the Student.

The Degrees conferred by the University upon such undergraduates of this Faculty, as shall fulfill the conditions and pass the Examinations hereinafter stated, will be in the first instance, "Bachelor of Applied Science," mention being made in the Diploma of the particular Department of study pursued; and, subsequently, the degrees of "Master of Engineering" or of "Master of Applied Science." (§ V.)

*Examinations for Land Surveyors*:—Any graduate in the Faculty of Applied Science, in the Department of Civil Engineering and Land Surveying, may have his term of apprenticeship shortened to one year for the profession of Land Surveyor in

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Quebec or Ontario, or for the profession of Dominion Land Surveyor. He must, however, pass the preliminary and final examinations before one of the Boards of Examiners. The former examination should be passed before entering the University, or in the First or Second Year of attendance.

Students in the Civil Engineering Department, who at the beginning of their Fourth Year give notice to the Faculty of their intention to prepare for the examination for Dominion Topographical Surveyors, will receive preparation for that Examination, more especially in Spherical and Practical Astronomy and Geodesy, and may be exempted from the Heat and Hydraulics, or from the designing of the Fourth Year.

Partial Students may be admitted to the lectures and examinations in the above special work.

### § I. MATRICULATION AND ADMISSION.

1. Candidates for Matriculation\* must present themselves for examination on the 17th of September, 1888. They may, however, be admitted at a later period of the Session upon special application, if qualified to take their places in the classes in progress.

**JUNIOR MATRICULATION.** For entrance into the First Year, the subjects for examination will be :—

*Mathematics.*—Arithmetic; Algebra, to end of Simple Equations; Euclid's Elements, Books, I., II., III.

*English.*—Grammar [including Analysis] and Composition.

Associates in Arts who, in the School Examinations of the University, have passed in Geometry and Algebra, will be received as matriculated Students in the First Year.

**SENIOR MATRICULATION.** For entrance into the Second Year, the subjects for examination will be :—

*Arithmetic.*

*Algebra.*—To the end of Quadratics [as in Colenso's Algebra, Part I].

*Euclid.*—Books I., II., III., IV., VI. and XI., and the definitions of Book V.

*Plane Trigonometry.*—Including solution of Triangles, and the use of Mathematical Tables.

*Chemistry.*—As in Nichol's Abridgment of Eliot and Storer's Manual.

\* See also page 16.

*English.*—Grammar (including Analysis), Composition and the leading facts of the History of England.

*French or German.*—French Grammar and easy translation. German as in Schmidt's German Guide, Part I., and easy translation.

Candidates unable to pass in Chemistry, may be allowed by the Faculty to enter and take the First Year lectures on Chemistry.

Candidates who produce certificates of having already completed a portion of a course in some recognized School of Applied Science may be admitted to an equivalent standing.

## § II. MEDALS, EXHIBITIONS AND PRIZES.

1. The BRITISH ASSOCIATION GOLD MEDAL AND EXHIBITION, founded by the British Association for the Advancement of Science, in commemoration of the meeting held in Montreal in the year 1884.

The British Association Gold Medal for Session 1888-89 will be open for competition to Fourth Year Students of the Civil Engineering Course. Candidates must take a first-class general standing in the Ordinary Course, and the medal will be awarded to the Student who stands first in the Advanced Course. (§iv. B.)

A British Association Exhibition (being the balance of the medal fund) will be open for competition in September, 1888, to Students entering the Fourth Year, the subjects of examination being the Theory of Structures, Mathematics and Mathematical Physics of the Ordinary Course.

2. The SCOTT EXHIBITION of \$66, founded by the Caledonian Society of Montreal, in commemoration of the Centenary of Sir Walter Scott.

Two Exhibitions on this endowment will be offered for competition at the opening of Session 1888-89, namely :--

One to Students entering the Third Year, the subjects of Examination being :—

[a] Macaulay's History of England, Vol. I., cap. I; Sir Walter Scott's Lady of the Lake. [b] Mathematics. [c] Mechanism.

One to Students entering the Second Year, the subjects of Examination being :—

[a] Macaulay's History of England, Vol. I.; cap. I.; Shakespeare's Tempest; [b] Mathematics.

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3. Two PRIZES IN BOOKS, each of the value of \$25, presented by E. B. Greenshields, B.A., and S. Greenshields, B.A., for the two best Summer Reports or Essays.

4. A prize to Students entering the Third Year, for proficiency in levelling (running a line of levels and closing on the starting point).

5. A Prize of \$25.00 is offered by J. H. Burland, B.A.Sc., to Students entering the Second Year, the subjects of examination being: (a.) Inorganic Chemistry; (b.) Elements of Organic Chemistry; (c.) Practical Chemistry.

6. Prizes or certificates of merit are given to such Students as take the highest places in the Sessional and Degree Examinations.

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### § III. SPECIAL PROVISIONS.

1. Partial Students may be admitted to the professional classes upon payment of special fees (§ VII).

2. Undergraduates in Arts may, if allowed by the Faculty of Arts, be admitted to the Professional Classes in Practical Science on payment of the fees for these classes.

3. Students in Applied Science may, by permission of the Faculty, take the Honour Classes in the Faculty of Arts.

4. Students who have passed the Intermediate in Arts, with standing not lower than the Second Class in Mathematics, have the privilege of entering the Second Year in Applied Science, and will be exempted from one of the Departments in the Third and Fourth Years in Arts.

5. Undergraduates in Arts of the Second or Third Years, or Graduates of any University, entering the Faculty of Applied Science may, at the discretion of the Professors, be exempted from such lectures in that Faculty as they may have previously attended as Students in Arts, but must pass all the examinations.

6. Students who fail to obtain their Session, and who, in consequence, repeat the Year, will not be exempted from examination in any of those subjects in which they may have previously passed, except by the express permission of the Faculty. Application for such exemption must be made at the commencement of the Session.

§ IV. COURSES OF STUDY FOR SESSION 1888-89.  
A. ORDINARY COURSES.

CIVIL ENGINEERING.	MECHANICAL ENGINEERING.	MINING ENGINEERING.	PRACTICAL CHEMISTRY.
FIRST YEAR.			
Arithmetic, Euclid. Algebra. Trigonometry. Geometrical Conics. Solid Geometry. Descriptive Geometry (By permission of the Faculty.) Freehand Drawing. Chemistry. English. French or German.	Arithmetic, Euclid. Algebra. Trigonometry. Geometrical Conics. Solid Geometry. Descriptive Geometry. (By permission of the Faculty.) Freehand Drawing. Chemistry. French or German.	Arithmetic, Euclid. Algebra. Trigonometry. Geometrical Conics. Solid Geometry. Descriptive Geometry. (By permission of the Faculty.) Freehand Drawing. Chemistry. English. French or German.	Arithmetic, Euclid. Algebra. Trigonometry. Geometrical Conics. Solid Geometry. Descriptive Geometry. (By permission of the Faculty.) Freehand Drawing. Chemistry. English. French or German.
SECOND YEAR.			
Mechanism. Materials. Surveying. Descriptive Geometry. Algebra. Analytical Geometry. Calculus. Mathematical Physics. Experimental Physics.  Zoology. English. French or German.	Mechanism. Materials. Surveying. Descriptive Geometry. Algebra. Analytical Geometry. Calculus. Mathematical Physics. Experimental Physics. Loco. Design & Cons. Mechanical Work. English. French or German.	Practical Chemistry. Mechanism. Surveying. Descriptive Geometry. Algebra. Analytical Geometry. Calculus. Mathematical Physics. Experimental Physics.  Zoology. English. French or German.	Practical Chemistry.  Descriptive Geometry.  Mathematical Physics. Experimental Physics.  Botany. English. French or German.
THIRD YEAR.			
Theory of Structures. Materials. Surveying.  Descriptive Geometry. Analytical Geometry. Calculus. Sphl. Trigonometry. Practical Astronomy. Mathematical Physics. Experimental Physics. Geology & Mineralogy. Modern Languages.†	Theory of Structures. Materials. Machinery & Millwork Loco. Design & Cons. Descriptive Geometry. Analytical Geometry. Calculus Mathematical Physics. Experimental Physics. Mechanical Work. Modern Languages.†	Theory of Structures. Materials. Mining.  Practical Chemistry. Blowpipe Analysis. Descriptive Geometry. Analytical Geometry. Calculus. Mathematical Physics. Experimental Physics. Geology & Mineralogy. Modern Languages.†	Practical Chemistry. Theoretical Chemistry.  Blowpipe Analysis. Mineralogy.  Mathematical Physics. Experimental Physics. Zoology. Modern Languages.†
FOURTH YEAR.			
Theory of Structures. Mathematics.  Heat & Heat-Engines. Hydraulics. Materials. Designs. Estimates. Spec'ns. Modern Languages.*	Theory of Structures. Mathematics. Machinery & Millwork Metallurgy of Iron. Loco. Design & Cons. Heat & Heat-Engines. Hydraulics. Materials. Designs. Estimates. Spec'ns. Modern Languages.*	Assaying. Mathematics. Metallurgy. Geology (advanced). Mineralogy advanced. Heat & Heat-Engines. Hydraulics. Materials. Designs. Estimates. Spec'ns. Modern Languages.*	Practical Chemistry. Theoretical Chemistry. Metallurgy. Assaying. Mineralogy. Geology.  Modern Languages.*

(1) During the summer recess the Students in the 2nd, 3rd and 4th years are to employ themselves in some practical work (1 mechanical Engineering students in a work-shop), and they are also to prepare a report on such work, to be handed in not later than October 1st. Credit will be given for this Report (or Essay) in the subsequent Sessional Examination.

(2) Students are not allowed to take subjects which do not form part of their course, without the sanction of the Faculty.

† English or French or German. \* Modern languages not imperative in the Fourth Year.

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## B. ADVANCED COURSES.

1. CIVIL ENGINEERING.—The higher Mathematics and Mathematical Physics, and the higher branches of Applied Mechanics (*Stiffness and Strength of Materials, Theory of Structures, Heat and Heat Engines, Hydraulics*). Students who have passed a creditable Examination in the Mathematical subjects of the Second Year may enter the Advanced Course of the Third Year, and may be exempted from the Modern Languages of that Year.

2. MECHANICAL ENGINEERING.—The higher Mathematics and Mathematical Physics, and the higher branches of Applied Mechanics (*Stiffness and Strength of Materials, Dynamics of Machines, Heat and Heat Engines*).

3. MINING ENGINEERING.—Study of Ore-Deposits (as in Phillips). Metallurgy. Theory and Practice of Metal-Mining and Ore-Dressing. Special work in mineral analysis, with an Essay thereon.

4. CHEMISTRY.—Organic Chemistry, Industrial Chemistry, Mineralogy and special laboratory work, with an Essay.

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 § V. EXAMINATIONS.

## I. FOR THE DEGREE OF BACHELOR OF APPLIED SCIENCE.

## 1. CHRISTMAS AND SESSIONAL EXAMINATIONS.

There will be a Christmas Examination for Students of the First Year in all the subjects, and for Students of the Second, Third and Fourth Years in Mathematics, and in those subjects which they take in the Faculty of Arts. A Sessional Examination in all the subjects will be held at the end of the First and Second Years.

## 2. DEGREE EXAMINATIONS.

(a) There will be a Primary Examination at the end of the Third Year in all the subjects of that year. Candidates must pass this Examination before entering the Final Year.

(b) There will be a Final Examination for the degree of Bachelor of Applied Science at the end of the Fourth Year in all the subjects of that year.

The General Classification for the Degree Examination will be under two heads, viz. :—

First, those who have satisfied the Examiners in the Advanced Courses, in order of merit.

Secondly, those who have satisfied the Examiners in the Ordinary Courses in order of merit.

Special Certificates may be given for proficiency in particular subjects.

Certificates may be given to Students who have passed the Special Courses added to the curriculum.

Students who take their Degree in one of the Courses provided by the Faculty of Applied Science may obtain credit in either of the remaining Courses, by attending one or more subsequent Sessions, the necessary provision for which will be made.

#### II. FOR THE DEGREE OF MASTER OF ENGINEERING.

Candidates must be Bachelors of Applied Science of at least three years standing, and must produce satisfactory certificates of having been engaged during that time upon *bona fide* work in either the Civil, Mechanical, or Mining Branch of Engineering.

They must pass with credit an Examination extending over the general Theory and Practice of Engineering, in which papers will be set having special reference to that particular branch upon which they have been engaged during the three preceding years.

Candidates must present applications for Examinations, together with the necessary certificates and fees. The Faculty will notify the candidates whether their certificates are satisfactory, and also of the date of the Examination.

#### III. FOR THE DEGREE OF MASTER OF APPLIED SCIENCE.

Candidates must be Bachelors of Applied Science of at least three years standing, must present certificates of having been employed during that time in some branch of scientific work, and must pass with credit an Examination on the Theory and Practice of those branches of scientific work in which they may have been engaged. The other conditions as under the last heading.

#### § VI. ATTENDANCE AND CONDUCT.

The regulations under this head are in all respects the same as those in force for Undergraduates in Arts.

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### § VII. LIBRARY AND MUSEUM.

Students in this Faculty have the same privileges with reference to the Library and Museum as Undergraduates in Arts.

### § VIII. FEES.

*In the Course of Civil Engineering.*—\$45; Library, \$4. In all \$49 for each Session.

*In the Course of Mechanical Engineering.*—\$45; Library, \$4. In all \$49 for each Session.

*In the Course of Mining Engineering.*—1st Year, \$45; 2nd, 3rd and 4th Years \$55; Library, \$4. In all \$49 to \$59 for each Session.

*In the Course of Chemistry.*—1st Year, \$45; 2nd, 3rd and 4th Years, \$55; Library, \$4. In all \$49 to \$59 for each Session.

*Matriculation Fee*, for the First and Second Years, \$5.

*Fee for Degree of Bachelor of Applied Science.*—\$10.

*Fee for Degree of Master of Engineering or Master of Applied Science.*—\$25.

If for any Special reason the degree of Ma.E. and M.A.Sc. be granted *in absentia* the fee will be \$40.

The fees must be paid to the Secretary, and the ticket shown to the Dean within a fortnight after the commencement of attendance in each session. In case of default, the student's name will be removed from the College books, and can be replaced thereon only by permission of the Faculty on payment of a fine of \$1.

The B.A.Sc. fee must be paid before the final Examinations.

Laboratory Students are required to purchase their own chemicals, &c. The larger articles of apparatus will be supplied by the Laboratory, the Students being responsible for breakage.

Partial students may be admitted to the Professional Classes in any year, by payment of the ordinary fees for that year; or they may attend the lectures on any subject by payment of a fee of \$5 for each term,\* except in the case of Chemistry, for which a fee of \$10 for each term is required.

Graduates in the Faculty of Applied Science may take further courses on payment of half the ordinary tuition fees.

Students taking Blowpipe Analysis, when it does not form part of their course, are required to pay a fee of \$5.

Partial Students may attend the course of Instruction in Meteorology on paying a fee of \$5.

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\* The first term ends with the Christmas examinations, the second with the Sessional.

## § IX. COURSES OF LECTURES.

### I. CIVIL ENGINEERING AND APPLIED MECHANICS.

Professor:—HENRY T. BOVEY, M.A., M.INST.C.E.

#### *Civil Engineering.*

The course of instruction in Civil Engineering will include the following:—Mechanism, Earthwork, Masonry, Carpentry, Structures of Timber, Stone and Iron, the Construction of Common Roads, Rail-Roads, Bridges, Viaducts, Tunnels, Canals, River, Harbour and Sea Works, Drainage Works, Lighthouses, Works connected with Irrigation and Water Supply, etc.

#### *Applied Mechanics.*

The subject of Applied Mechanics will be treated under two heads:—

(a) The Strength of Materials, embracing a study of Work, Inertia, Energy and Entropy, the Strength, Stiffness, and Resilience of Materials, Beams or Girders, Pillars, Shafts, Structures (*simple and complex*), Earthwork, Retaining Walls and Arches.

(b) Hydraulics, comprising the Theory of Hydrostatics and Hydrodynamics, the Flow of Liquids through Orifices, Pipes and Canals, the Action of a Stream on inclined or curved Vanes (*fixed or revolving*), Hydraulic Machines (*Pressure Engines, Vertical Water Wheels, Turbines, Centrifugal Pumps*), Pneumatics.

#### *Heat and Heat-Engines.*

The course of instruction in this Department will embrace:—The General Description of the Steam Engine, the Theory of Heat, the Application of Heat to Thermal Machines, the Production of Heat and Steam, and also:—

(a) The movement and distribution of Steam, including the action of Steam in a Cylinder, the methods and regulation of the distribution of Steam, Systems of Cut-off, the general disposition of Cylinders, Condensers, &c.

(b) The modes of transmission and a consideration of certain special machines.

(c) The construction of an Engine, under which head will be considered Rivets, Bolts, Screws, Sockets, Keys, Cylinders, Pistons, Organs of Distribution, Organs of Transmissions.

(d) The construction of Special Machines.

#### *Designs, Estimates, &c.*

Engineering Students will also prepare designs, specifications, and estimates of such works as are usually undertaken by the Engineer.

Each Student works independently, under the personal supervision of the Professor of Engineering, and makes such drawings and calculations as would be needed were the structure designed to be actually carried out.

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## II. MECHANICAL ENGINEERING.

Professors :— { HENRY T. BOVEY, M.A., M.I.M.E.  
 { C. H. MCLEOD, MA.E., M.CAN.SOC.C.E.

*Mechanism.*

The lectures on Mechanism will treat of:—The object and structure of a machine, conversion and modification of motion, aggregation of motion, velocity ratios, linkwork, the teeth of wheels and trains of wheels, indicator diagrams and measurement of H. P., escapements, connections, various elementary combinations. Shop visitation by the class.

*Theory of Machines.*

This Branch will comprise :—

(a) *The transmission of Work*, including the measurement of work, the efficiency of machines, dynamical friction, viscosity, and the methods of transmitting work (*by continuous rotation, oscillation, belts, water, and compressed air*).

(b) *The modification of Work and Stores of Energy*, embracing a study of the actual energy of moving pieces, springs and weights.

(c) *Governing and Controlling Machines*, including a consideration of uniform effort, variable resistance, machines driven by fluid pressure, differential governors.

(d) *Balancing Machinery.*

*Mechanical Work.*

A course of lectures will be given on the following specific Departments of Mechanical Engineering, and will treat entirely of the principles and results of actual practice :—The different classes of machinery, Belts, Gearing, Forging, Hammers, the Tempering of Steel, Tools, Vice-work, Fitting and Finishing, Lathes and Lathe-work, Planing, Slotting and Shaping Machines, Boring and Drilling, Milling and Milling tools, Screw-cutting, the Slide valve, Standard Measures, Gauging Implements, Riveted Joints, Fastenings, Pipes and Cylinders, Journals, Bearing, Shafting, Linkwork, Pistons and Stuffing Boxes, Lubricators, Moulding and Founding.

Students before obtaining their degree in this course must present certificates of having been employed for at least eight months in Mechanical work-shops.

## LOCOMOTIVE DESIGN AND CONSTRUCTION.

SECOND, THIRD AND FOURTH YEARS :—Session 1888-89.

Mr. R. Atkinson, M.CAN.SOC.C.E., of the Canadian Pacific Railway Mechanical Engineering staff, will give a course of lectures at the Canadian Pacific Works on the design and construction of Locomotives, comprising :—Boilers, Cylinders, Link-motors, Frames, Engine-trucks, Tenders and Tender-trucks.

### III. MINING ENGINEERING.

Professor:—B. J. HARRINGTON, B.A., PH.D.

The object of this course is to give Students a knowledge of the characters and modes of occurrence of various economic minerals, together with the methods employed for their extraction and subsequent treatment.

The lectures on Mining are given during the Third Year, and among the subjects taken up the following may be mentioned;—Blasting and the nature and use of different Explosives, Quarrying, Hydraulic Mining, Boring; the Sinking, Timbering and Tubbing of Shafts; Driving and Timbering of Levels, Underground Conveyance and Hoisting, Drainage and Pumping, Lighting and Ventilation of Mines, special methods of Exploitation employed in the working of Metalliferous Deposits or of Coal Seams, &c. During this year, also, instruction is given in Blowpipe Analysis, the object of which is to enable Students by means of the blowpipe and a few simple re-agents to detect the nature of different Minerals or Ores. On account of the small quantity of apparatus required, and the rapidity with which accurate results may be arrived at, a knowledge of this subject will be found most useful to those engaged in geological or other field-work.

In the Fourth Year a short course of lectures on Metallurgy is given, and assays are made of various Ores, Fuels, &c.

NOTE.—The lectures on Mining and Metallurgy are illustrated by a series of Models.

### IV. DESCRIPTIVE GEOMETRY AND SURVEYING.

Professor:—C. H. McLEOD, MA.E.

#### *Descriptive Geometry.*

SECOND YEAR.—(1).—Linear Drawing. (2).—Orthographic projection, including penetrations, developments, sections, etc.

THIRD YEAR.—(1).—Orthographic projection (continued). Tangent planes and normals. Curved surfaces. Graphical determination of spherical triangles. (2).—Spherical projections, including the construction of maps. (3).—Axometric projection. Isometric projection. (4).—Shades and shadows. (5).—Mathematical perspective. Perspective of shades and shadows.

#### *Surveying.*

This course is designed to qualify the Student for admission to the practice of Provincial and Dominion Land Surveying. It also affords a practical and theoretical training in field engineering.

SECOND YEAR.—Chain Surveying, Compass Surveying. The use and adjustment of the Transit, Theodolite, Level (Dumpy, Y, and other forms), Sextant, Aneroid Barometer, Plane-table and other field instruments. Contour Surveying. Underground Surveying. Plotting. Practical operations in the field. Calculating areas.

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THIRD YEAR.—Topography. Methods of Setting out Work. Curves. Indirect and Barometric Levelling. Hydrographic Surveying. Geodetic Surveying. Practical operations in the field.

NOTE.—The field work is carried out under the personal supervision of the Professor, and is as follows:—(a) a chain survey, (b) an angular survey, (c) a contour survey, (d) the location of a line of road, including preliminary surveys, ranging curves, levelling and setting out the work, (e) a hydrographic survey. Each student is required to make field notes, and from these to plot all plans and sections required in connection with the above.

At the close of the sessional examinations there is also an optional course for the 3rd year in astronomical observations and triangulations. The former includes latitude, longitude (by lunar culminations), azimuth and time.

#### FREEHAND AND MODEL DRAWING.

FIRST YEAR:—Session 1888-89.

Instruction in Freehand and Model Drawing will be given by Mr. A. T. Taylor, M.R.I.B.A.

Students in Arts may attend the classes in Freehand Drawing on payment of a fee of \$1 per term.

#### V. CHEMISTRY AND ASSAYING.

Professor:—B. J. HARRINGTON, B.A., PH.D. (Greenshields Professor of Chemistry and Mineralogy.)

Assistant: NEVIL N. EVANS, B.A.SC.

A course of Lectures, illustrated by experiments, is given to all students of the First Year in Applied Science on the Laws of Chemical Combination, Chemical Formulæ and Equations, the preparation and properties of the more important non-metallic and metallic Elements and many of their Compounds, and on the elementary principles of Organic Chemistry. Students taking these lectures must also devote one afternoon a week during the first term, and two afternoons a week during the second term, to practical work in the laboratory.

In the Second and Third Years of the Mining Course instruction will be given in Qualitative and Quantitative Analysis, and Chemistry Students of these years will attend a course of lectures on either Theoretical or Organic Chemistry. In the Fourth Year Mining Students will devote themselves chiefly to Mineral Analysis and Assaying, while Practical Chemistry Students may substitute Organic Analysis and the preparation of Organic Compounds for these subjects.

The laboratory is open daily (Saturdays excepted) from 9 a.m. to 1 p.m., and from 2 to 5 p.m.

## VI. GEOLOGY.

Professor :—SIR J. W. DAWSON, LL.D., F.R.S. (Logan Professor of Geology).

Assistant Professor :—B. J. HARRINGTON, B.A., PH.D., F.G.S.

SECOND YEAR.—A preliminary Course in Zoology, with special reference to Fossil Animals.

THIRD YEAR.—Mineralogy (Ordinary and Honour), Lithology, Physical and Chronological Geology and Palæontology, Geology of Canada, Methods of Geological Exploration.

FOURTH YEAR.—Special Studies in Mineralogy and Lithology, Advanced Course in General Geology and Palæontology, Geology of Canada, Practical Geology and Field-work.

NOTE.—Students in the Mining and Chemistry Courses take the Honour Mineralogy of the Third Year. Mining Students alone take all the subjects of the Fourth Year ; Chemistry Students only the Mineralogy and Lithology.

## VII. BOTANY.

Professor :—D. P. PENHALLOW, B.Sc.

Course.—General Morphology and Classification. Descriptive Botany. Flora of Canada. Nutrition and reproduction of plants. Elements of Histology.

## VIII. MATHEMATICS AND MATHEMATICAL PHYSICS.

Professor :—G. H. CHANDLER, M.A.

The lectures in this course are specially designed to meet the requirements of Students of Applied Science ; those in Mechanics being introductory to Applied Mechanics. The subjects are as follows :

FIRST YEAR.—(1) Euclid, six books. (2) Loci, Transversals, &c. (3) Algebra, to Progression. (4) Plane Trigonometry and the use of Mathematical Tables. (5) Elements of Solid Geometry. (6) Geometrical Conic Sections.

SECOND YEAR.—(1) Algebra continued. (2) Analytical Geometry. (3) Differential and Integral Calculus. (4) Mechanics.

THIRD YEAR.—(1) Mechanics continued. (2) Spherical Trigonometry. (3) Spherical and Practical Astronomy. (4) Revision and continuation of Analytical Geometry and Calculus, with applications to Mechanics, &c.

FOURTH YEAR.—Revision of Analytical Geometry and Calculus.

## IX. EXPERIMENTAL PHYSICS.

Professor :—ALEXANDER JOHNSON, LL.D. (Peter Redpath Professor of Natural Philosophy.)

Students in this Faculty are required to take the course in Experimental Physics provided by the Faculty of Arts.

The subjects for the Session 1888-89 are Electricity and Magnetism.

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## X. ENGLISH LANGUAGE AND LITERATURE.

PROFESSOR:—CHARLES E. MOYSE, B.A. (Molson Professor of English Language and Literature.)

Lecturer.—PAUL T. LAFLEUR, B.A.

FIRST YEAR.—English Language and Literature.

SECOND YEAR.—A special course on English Composition.

THIRD YEAR.—A special course on English Composition.

## XI. GERMAN OR FRENCH.

*German*:—Professor C. F. A. MARKGRAF, M.A.

*French*:—Professor P. J. DAREY, M.A., B.C.L.

Students of this Faculty are required to take the course in one of these languages provided by the Faculty of Arts.

## XII. METEOROLOGY.

Instruction in Meteorological Observations will be given in the Observatory at hours to suit the convenience of Senior Students.

Certificates will be granted to those Students who pass a satisfactory examination on the construction and use of Meteorological Instruments, and on the general facts of Meteorology.

## SPECIAL PROVISION FOR MATRICULATION IN JUNE.

Candidates for matriculation may pass in the examinations for the Associate in Arts commencing June 1st. In the case of schools not in Montreal the papers will be sent if competent Deputy Examiners are provided. Applications for papers and names of Candidates and Deputy Examiners must be sent to the Secretary of the University before May 15th.

N.B.—Students of the Second, Third and Fourth Years will be required to answer satisfactorily a weekly paper on such subjects of the course as shall be determined by the Faculty.

## SPECIAL NOTICE.

During Session 1888-89, lectures on professional subjects will be delivered from time to time by eminent engineers and others.

It may also be stated that the headquarters of the Canadian Society of Civil Engineers has been established in Montreal. The Society holds fortnightly meetings, at which papers upon practical current engineering subjects are read and discussed. Undergraduates joining the Society as Students may take part in these meetings, and acquire knowledge of the utmost importance in relation to the practical part of the profession.

§ X. TEXT BOOKS.

*Civil Engineering and Applied Mechanics* :—Bovey, \*Rankine, \*Collignon, \*Weisbach, Reuleaux.

*Machinery, etc.* :—Goodeve (new edition), \*Willis, Rankine, Kennedy, \*Knight, Rose, \*Shelley, \*Fairbairn, Unwin.

*Heat and Heat Engines* :— Holmes, \*Jamieson, \*Maxwell, Tait, Wilson, Rankine, Rigg, Marks.

*Moulding and Founding* :—Overman.

*Materials* :—Notes on Building Construction, \*Gilmore, Thurston.

*Descriptive Geometry* :—Millar's Descriptive Geometry.

*Surveying* :—Gillespie's Land Surveying. (New edition). \*Johnsons Surveying.

*Geology* :—Dana's Geology, Dawson's Handbook of Zoology and Lecture Notes on Geology, \*Nicholson's Palæontology, \*Geological Survey Reports, \*Dawson's Acadian Geology.

*Mineralogy* :—Dana's Manual, \*Dana's Descriptive Mineralogy.

*Blowpipe Analysis* :—Brush's Determinative Mineralogy and Blowpipe.

*Botany* :—Gray and Bessey.

*Chemistry* :—Nichol's Abridgement of Eliot and Storer's Manual of Chemistry, Remsen's Compounds of Carbon Thorpe & Muir's Qualitative Chemical Analysis, Fresenius' Manuals of Qualitative and Quantitative Analysis, \*Watts Dictionary of Chemistry, \*Roscoe & Schorlemmer's Treatise on Chemistry, \*Miller's Elements of Chemistry.

*Metallurgy* :—Greenwood's Manual of Metallurgy.

*Assaying* :—Rickett's Notes on Assaying, Chapman's Assay Notes.

*Mathematics* :—Todhunter's Euclid. Colenso's Algebra (Part 1), Hamblin Smith's Trigonometry, Wilson's Solid Geometry and Conic Sections, Briggs's Analytic Geometry, Peck's Calculus, Goodeve's Principles of Mechanics, Chambers' Practical Mathematics, Chambers' Mathematical Tables.

TABLE OF LECTURES.

YEARS	HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
<b>FIRST YEAR.</b>	9			Mathematics.	Mathematics.	Mathematics.
	10	Mathematics.	Mathematics.			
	11	English.	French.	French.	French.	English.
	12	Chemistry.	German.	English.	German.	Chemistry.
	2		Pract. Chem. (2nd. Term).	† Freehand Drawing.		Pract. Chem.
	3		Do	Do		Do.
						Do.

\* Books of Reference.

† The Freehand Drawing Class is also held from 9 to 11 on Saturdays.

YEARS	HOURS
<b>SECOND YEAR.</b>	9
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<b>THIRD YEAR.</b>	2
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	9
<b>FOURTH YEAR.</b>	10
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TABLE OF LECTURES—(Continued.)

YEARS	HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
SECOND YEAR.	9	French.		French. German.	Materials.	{ French. German. (1)
	10	Surveying.	German. (2)	Surveying.	{ Theor. Chem. Mathematics.	German. (2)
	11	Mathematics.	Zoology.	Mathematics. Botany. †	Zoology.	Mathematics.
	12	Botany. †	Exp. Physics.	German. (1)	Exp. Physics.	Eng' sh.
	2	Pract. Chem. Drawing.	Mechanism.	Pract. Chem. ‡ Drawing.	Drawing. Pract. Chem.	Mechanism.
	3	Drawing.	Drawing.	‡ Drawing.	Do	Drawing.
	4	Mech. Work Drawing.	Do		Do	Do
THIRD YEAR.	9	Theory of Structures.	Mathematics.	Machinery. Geology	Materials.	Mineralogy. Mineralogy.
	10	Geology.	French. German. (2)	Mathematics.	French. German. (2) Theor. Chem.	Geology.
	11	Theory of Structures.	English.	German. (3)	Theory of Structures. (Advanced).	German. (3)
	12	Machines.	Exp. Physics.	German.	Exp. Mech.	Mathematics.
	2	Surveying. Pract. Chem.	Theory of Structures. Pract. Chem.	{ Blowpipe. Analysis.	Pract. Chem. Surveying.	Theory of Structures. Pract. Chem.
	3	Drawing.	Drawing.		Drawing.	Drawing.
	4	Mech. Work. Drawing.	Drawing. Mining.		Drawing.	Do
FOURTH YEAR.	9	Theory of Structures.	Designing. Mathematics	Designing.	Materials.	Designing.
	10	Theory of Structures.	* Metallurgy. Designing.	Do	Machines.	Designing.
	11	Machines. Geology.*	Do		Theory of Structures.	Geology.*
	12		Do	Geology. *	Theory of Structures. (Advanced)	Mathematics.
	2	Pract. Chem. Assaying. Designing.	Theory of Structures. Pract. Chem.	Pract. Chem.	Pract. Chem. Assaying. Designing.	Theory of Structures.
	3	Do	Hydraulics. (a) Steam. (a)	Do	Do	Hydraulics. (a) Steam. (a)
	4	Do	Tn. of Strt. (adv.)	Do	Do	Do

\* For Mining and Chemistry Students. (a) Steam during first term; Hydraulics during second term.

Field work for Students of the 2nd year on Mondays, Tuesdays, Wednesdays and Thursdays; for Students of the Third Year on Mondays, Wednesdays and Thursdays, during the months of September and October.

† For Practical Chemistry Students.

‡ For Mining Students only.

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# Faculty of Medicine.

THE PRINCIPAL (ex-officio).

*Professors :*

WRIGHT,	ROSS,	WILKINS,
HOWARD,	RODDICK,	PENHALLOW,
MACCALLUM,	GARDNER,	MACDONNELL,
CRAIK,	SHEPHERD,	MILLS,
FENWICK,	BULLER,	CAMERON.
GIRDWOOD,	STEWART,	

*Dean.*—R. P. HOWARD, M.D.

*Registrar.*—J. STEWART, M.D.

*Librarian.*—F. J. SHEPHERD, M.D.

The Fifty-Sixth Session of the Faculty will be opened on Monday, October 1st, 1888, by an introductory lecture at 3 p.m. The regular lectures will begin on October second, at the hours specified in the time-table, and will be continued for six months.

The Medical School of McGill University was founded in 1824, as the "Medical Institution," by Drs. John Stephenson, Andrew F. Holmes, William Robertson and William Caldwell. In 1829 the Medical Institution became the Medical Faculty of McGill College. There were no Sessions during the political troubles, from 1836 to 1839, and it is owing to this gap that the present is the 56th Session of the Faculty. In reality this is the 60th Session of the School, which is the direct continuation of the Medical Institution.

The new building of the Medical Faculty, which was opened in the year 1885, is one of the most complete structures of its kind on this continent or elsewhere. It has been found admirably adapted for the fulfilment of the great aim of the Faculty—to make

the teaching of the primary branches as practical and as thorough as possible. The facilities now possessed by the Faculty for the above purpose are equal to those of the most advanced European medical schools.

Through the great liberality of Sir Donald A. Smith in founding "the Leancoil Endowment," and of the citizens of Montreal and Medical Graduates in subscribing to the "Campbell Memorial Fund," the Faculty are enabled much more thoroughly to conduct and maintain the teaching of the different branches of the medical course in an ample state of efficiency.

#### LABORATORIES, &c.

In addition to the laboratories and dissecting room, there are two large lecture rooms, each capable of comfortably seating 300 students, and one small demonstration room for classes of fifty and under. The space allotted to the library and museum has been largely increased. A large reading room, waiting and cloak rooms have been provided for students.

#### DISSECTING ROOM.

The Dissecting Room, which is situated on the second floor, is 76 feet in length and 31 feet in breadth. It is furnished with twenty tables, and is well lighted for work during the day and night. In procuring appliances for the comfort and convenience of the students no reasonable expense has been spared.

In connection with the dissecting room, there is a "Bone room," where students have an excellent opportunity of studying osteology. There are also two distinct rooms for the demonstrators of anatomy.

#### PHYSIOLOGICAL LABORATORY.

The Physiological Laboratory, which is situated on the ground floor, is supplied with the most modern apparatus for the practical teaching of this most important branch of the medical curriculum. It contains among other valuable instruments: kymographs, various manometers, etc., for demonstrating blood pressure; myographs, rheocords, moist chambers, etc., and various electrical appliances for demonstrating experiments in connection with nerve and muscle;

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special apparatus for illustrating various points in respiration; apparatus specially suitable for demonstrating the processes of digestion, as well as the chemical composition and nature of the secretions, and the chief constituents of the tissues and nutritive fluids. The laboratory is arranged in such a way as to permit of students assisting at, and taking part in, these demonstrations. During the present summer considerable additions will be made to the physiological apparatus.

#### HISTOLOGICAL LABORATORY.

The Histological Laboratory is a large, well-lighted room on the second floor. It is so arranged that over eighty students can be present at the microscopical demonstrations. For this purpose it is supplied with thirty-five microscopes, all from the well-known makers—Zeiss, Hartnack and Leitz. From the large number of microscopes employed, students will have special facilities in studying and making themselves thoroughly acquainted with the specimens that are the subjects of demonstration.

#### PHARMACOLOGICAL LABORATORY.

The Pharmacological Laboratory is a large room, situated on the ground floor, and is now furnished with the necessary appliances for the practical teaching of pharmacy.

#### CHEMICAL LABORATORY.

The Chemical Laboratory is large, lofty, and well lighted, and can accommodate comfortably 76 men at one time. Each student, when entering on this course, has a numbered table in the laboratory assigned to him for his use during the session. Each table has its own gas and water fixtures, and is provided with shelves for its corresponding set of reagent bottles, as well as drawer and locker, containing a modern set of chemical apparatus especially adapted for the work. This apparatus is provided by the Professor of Chemistry, and supplied to each student without extra charge. The student is only required to pay for apparatus broken or destroyed.

The laboratory is furnished with large draught closet for ventilation, sulphuretted hydrogen apparatus, gas and combustion furnaces,

etc., giving to the student unsurpassed advantages for acquiring a sound and practical knowledge of medical chemistry.

#### PATHOLOGICAL LABORATORY.

In the Pathological Laboratory accommodation will be provided for students or practitioners who desire to carry on private pathological research.

The recent additions made to the laboratory including a suite of rooms, exclusively devoted to the study and culture of Bacteria, furnished with a complete outfit of the best modern apparatus for this purpose, including sterilizer, thermostat, &c., &c.

The demonstrations in Morbid Anatomy will be given in a small laboratory, specially arranged for the work.

The classes in Pathological Histology will be held in the Histological Laboratory.

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The class tickets for the various courses are accepted as qualifying candidates for examination before the various Colleges and Licensing bodies of Great Britain and Ireland, and the College of Physicians and Surgeons of Ontario. The degree in Medicine of this University carries with it at the Licensing Boards of Great Britain the same exemptions in certain subjects as are granted to all colonial degrees.

To meet the circumstances of the General Practitioners in British North America, where there is no division of the profession into Physicians and Surgeons exclusively, the degree awarded upon graduation is that of "Doctor of Medicine and Master of Surgery," in accordance with the general nature and character of the curriculum, as fully specified hereafter. The degree is received by the College of Physicians and Surgeons of the Province of Quebec.

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#### § I.—MATRICULATION.

It is very important that intending Students should bear in mind the following:—

(1) If residents of Ontario, and desirous of obtaining the license of that Province, they must conform to the regulations regarding the Preliminary Examination, and register before beginning their medical studies. They may at their option take the Matriculation examination in Arts of this University instead of that in Medicine.

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These Examinations are held in Montreal, on June 1st and following days, and on September 17th and following days. Papers for the June examinations may be sent to Collegiate Institutes or High Schools in Ontario on application before May 15th to the Secretary of the University. Details of the examination will be found in the announcement of the Faculty of Arts.

(2) If residents of the Province of Quebec, and desirous of obtaining the license of that Province, they must pass the Matriculation Examination of the Quebec Medical Board before beginning their medical studies.

(3) Residents of the Maritime Provinces, and of Manitoba or British Columbia, may present themselves before the Local Medical Boards for the Preliminary Examination. Where the Examination and Standard are equivalent to those of this University, a certificate (bearing the standing of the candidate in various subjects) will be accepted, and the students may register without further examination or fee.

(A).—UNIVERSITY MATRICULATION EXAMINATION.

Graduates in Arts are exempt from the Matriculation Examinations. Other Candidates may pass either the Arts or Medical Matriculation of this University. Details as to the former will be found in the announcement of the Faculty of Arts. The latter is the same as that recommended by the Medical Council of Great Britain. Examinations will be held on the last Friday and Saturday in March, and the third Friday and Saturday in September of each year. Applications may be made to the Registrar of the Faculty till the evening of the previous day. The requirements of the standard for Matriculation are:—(1) English Language, including Grammar and Composition.\* (2) English History. (3) Modern Geography. (4) Latin, including Translation from the original and Grammar. (5)

\* The ability of the candidate will be fully tested in the following:—“(1) To write sentences in English on a given theme, attention being given to spelling and punctuation as well as to composition; (2) to write correctly from dictation; (3) to explain the grammatical construction of sentences; (4) to point out the grammatical errors in sentences ungrammatically composed, and to explain their nature; and (5) to give the derivation and definition of English words in common use.”

Elements of Mathematics, comprising (a) Arithmetic, including Vulgar and Decimal Fractions; (b) Algebra, including simple Equations; (c) Geometry, including the first two books of Euclid, or the subjects thereof. (6) Elementary Mechanics of solids and Fluids, comprising the elements of Statics, Dynamics and Hydrostatics. (7) One of the following optional subjects:—(a) Greek, (b) French, (c) German, (d) Italian, (e) any other modern language, (f) Logic, (g) Botany, (h) Elementary Chemistry.

[These examinations fulfil the requirements of the University for entrance; but students are advised to consult the requirements of the Medical Acts in the Provinces in which they may intend to practise.]

TEXT-BOOKS.—LATIN.—Cicero, Orations 1 and 2 against Cataline; Virgil, Æneid, Bk. I. GREEK.—Xenophon, Anabasis, Bk. I., or equivalent. FRENCH.—Charles XII., Two Books. NATURAL PHILOSOPHY. Ganot's Physics. BOTANY. ELEMENTARY CHEMISTRY.

(B). MATRICULATION EXAMINATION OF THE COLLEGE OF  
PHYSICIANS AND SURGEONS OF QUEBEC.

[This is imperative on all students intending to practise in Quebec.]

*Compulsory Subjects.*

LATIN.—Cæsar's Commentaries, Books I, II, III, IV.—Virgil's Æneid, Books I, II, V.—The Odes of Horace, Book III.

ENGLISH.—Sprague's "Six Selections from Washington Irving's Sketch Book."  
—A play of Shakespeare, viz., Henry V.

FRENCH.—Fénélon's "Adventures de Télémaque."—Molière's "Le Bourgeois Gentilhomme."

BELLES LETTRES.—Principles of the subject. History of the Literature of the age of Pericles in Greece, of Augustus in Rome, of Elizabeth in England, and Louis XIV. in France.

HISTORY.—Outlines of the History of Greece and Rome, with particular knowledge of England, France and Canada.

GEOGRAPHY.—A general view, with particular knowledge of England, France and North America.

ARITHMETIC.—Must include Vulgar and Decimal Fractions, Simple and Compound Proportion, Interest and Percentages, and Square Root.

ALGEBRA.—Must include Fractions and Simultaneous Equations of the First Degree.

GEOMETRY.—Euclid, Books I, II, III., or the portion of Plane Geometry covered by these Books. Also the measurement of the lines, surfaces and volumes of regular geometrical figures.

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*Optional Subjects.*

GREEK.—Xenophon's *Anabasis*, Book I.—Homer's *Iliad*, Book I.

PHYSICS.—Outlines of the subject, as in Ganot's *Physics*, translated by Atkinson.

PHILOSOPHY.—Elements of Logic and of Moral Philosophy, as in Jevon's *Logic* and Calderwood's *Hand-book of Moral Philosophy*.

The Examinations will be held upon the \_\_\_\_\_ 1888, at Quebec, and on the \_\_\_\_\_ 1889, at Montreal. Applications to be made to Dr. F. W. Campbell, Montreal, or Dr. Belleau, Quebec, either of whom will furnish schedule giving text-books and percentage of marks to be obtained.

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§ II.—ENREGISTRATION AND PAYMENT OF FEES.

*The following are the University Regulations:—*

All Students desirous of attending the Medical Lectures shall, at the commencement of each Session, enrol their names and residences in the Register of the Medical Faculty, and procure from the Registrar a ticket of Enregistration, for which each Student shall pay a fee of \$5: excepting in the Clinical Classes, in which Enregistration for Students for other Schools shall not be compulsory.

The said register shall be closed on the last day of October in each year. The fees are payable to, and all class tickets will be issued by, the Registrar, and must be paid in advance, (except under special circumstances) at the time of enregistration.

Enregistration in the Summer Session is compulsory upon all Students, whether attending one or more of the classes.

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§ III. COURSES OF LECTURES.

ANATOMY.

PROFESSOR, FRANCIS J. SHEPHERD.

Anatomy is taught in the most practical manner possible, and its relation to Medicine and Surgery fully considered. The lectures are illustrated by the fresh subject, moist and dry preparations, sections, models and plates, and drawings on the blackboard.

## PRACTICAL ANATOMY.

Demonstrator, RICHARD L. MACDONNELL.

Assistant Demonstrators, { WILLIAM R. SUTHERLAND.  
R. J. B. HOWARD.

Special attention is devoted to this important branch, the teaching being similar to that of the best European schools. The Dissecting Room is open from 8 a.m. to 10 p.m.; the Demonstrators' hours are from 10 to 12 a.m., and 8 to 10 p.m. Special Demonstrations on the Brain, Thorax, Abdomen, Bones, &c., are frequently given. Every Student must be examined *at least* three times on each part dissected; and if the examinations are satisfactory, a certificate is given. Prizes are awarded at the end of the Session for the best examination on the fresh subject. Abundance of material provided.

## CHEMISTRY.

PROFESSOR, GILBERT P. GIRDWOOD.

Inorganic Chemistry is fully treated; a large portion of the course is devoted to Organic Chemistry and its relations to Physiology. The branches of Physics bearing upon or connected with Chemistry also engage the attention of the Class. For experimental illustration abundant apparatus is possessed by the College.

The Chemical Laboratory will be open to members of the class to repeat experiments performed during the course, under the superintendence of the Professor or his Assistant.

## PRACTICAL CHEMISTRY.

PROFESSOR, GILBERT P. GIRDWOOD.

Lecturer, R. F. RUTTAN.

The course in practical chemistry includes two hours' laboratory work three times a week, for three months. The Students are instructed individually in chemical manipulations, blow-pipe analysis, and qualitative determination of the salts, acids, &c., they will require to use in practice. They are required before finishing the course to be familiar with the principles of practical Forensic and Sanitary Chemistry. Special attention is directed to instructing the Student in making accurate notes of his experiments and his conclusions. These notes are examined daily and criticised.

## PHYSIOLOGY.

PROFESSOR, T. WESLEY MILLS.

The purpose of this Course is to make Students thoroughly acquainted, as far as time permits, with modern Physiology: its methods, its deductions, and the

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basis on which the latter rest. Accordingly a full course of lectures is given, in which both the Experimental and Chemical department of the subject receive attention.

In addition to the use of diagrams, plates, models, &c., every department of the subject is experimentally illustrated. The experiments are free from elaborate *technique*, and many of them are of a kind susceptible of ready imitation by the Student.

*Laboratory work for Senior Students:—*

(1) During the first part of the Session there will be an optional course on Physiological Chemistry, in which the Student will, under direction, investigate food-stuffs, digestive action, blood, and the more important secretions and excretions, including urine. All the apparatus and material for this course will be provided.

(2) The remainder of the Session will be devoted to the performance of such experiments as are unsuitable for demonstration to a large class in the lecture room, and such as require the use of elaborate methods, apparatus, &c. There will be no extra fee for this part of the course.

As far as possible, senior Students who do not share in the above courses will be given an opportunity to take some practical part in the physiological work.

## HISTOLOGY.

PROFESSOR, GEO. WILKINS.

This will consist of a course of ten lectures, and twenty-five weekly demonstrations with the Microscope. As the demonstrations will be chiefly relied upon for teaching the Microscopic Anatomy of the various structures, the specimens under observation will then be minutely described. Plates and diagrams specially prepared for these lectures will be freely made use of.

*Practical Histology.*—This is an optional course given by Prof. Wilkins for the purpose, more especially, of teaching Microscopy. It will consist of twenty-five lessons of two hours each. Each Student will be provided with a Microscope and shown how to use it, and also how to cut, stain and mount specimens for microscopical investigation.

For the purpose of enabling students to observe the different effects of staining, &c., on diseased and healthy structures, a few diseased specimens will be given them to prepare, in the latter part of the course. Students are at liberty to keep all the specimens they prepare. One of the great advantages of this course is that students will be able to collect a cabinet of 100 or more specimens for reference at any time; these, besides being of great help to them during their College course, they will find especially useful when in active practice for the purpose of comparison with diseased growths. Re-agents, and everything except cover-glasses and cabinet cases, provided. Fee, \$12.

## THE MICROSCOPE IN MEDICINE.

DRS. WILKINS AND W. G. JOHNSTON.

This is an optional class for third and fourth year Students, and has been divided into two courses. (1) Pathological Histology, 20 lessons (two hours each), given during the winter, in which special attention will be paid to the microscopical study of pathological anatomy, and methods of preparing specimens. Each student will prepare and mount for himself a cabinet of 100 specimens, illustrating all the principal lesions of disease. (2) Clinical Microscopy, 20 lessons in the summer session, affording a systematic training in the use of the microscope in the diagnosis of disease, the examination of urine, sputum, blood, pus, tumors and parasites of all kinds. Fee for either course alone \$12, for both courses \$18.

## PHARMACOLOGY AND THERAPEUTICS.

PROFESSOR, JAMES STEWART.

The course on this subject deals for the most part with the pharmacology and therapeutics of the different medicinal agents. A good deal of attention will be given to the "untoward effects" of drugs, and when possible these will be illustrated by the exhibition of living specimens.

The leading officinal agents of the British Pharmacopœia will be fully considered, as will also those drugs of recent introduction into practice which have been found useful, but have not, as yet, found their way into the Pharmacopœia. The following groups of medicinal agents will, on account of their great importance, receive special attention:—1, Cardiac Tonics; 2 Cardiac Depressants; 3, Motor Stimulants; 4, Motor Depressants; 5, Anæsthetics; 6, Analgesics; 7, Mydriatics; 8, Alteratives; 9, Hæmatinics; 10, Astringents; 11, Purgatives; 12, Digestants; 13, Nutritives; 14, Antiseptics; 15, Antipyretics; 16, Diuretics.

In future one of the five weekly lectures will be given in the theatre of the General Hospital on Clinical Therapeutics.

## MEDICINE.

PROFESSOR, R. PALMER HOWARD.

While the lectures on this subject are mainly devoted to Special Pathology and Therapeutics, no opportunity is lost of illustrating and explaining the *general* laws of disease. With the exception of certain affections seldom or never observed in this country, all the important internal diseases of the body, except those peculiar to women and children, are discussed, and their Pathological Anatomy illustrated by the large collection of morbid preparations in the University Museum, and by fresh specimens contributed by the Demonstrator of Morbid Anatomy.

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The College possesses an extensive series of Anatomical plates, illustrative of the Histological and Anatomical appearances of disease, and the wards of the General Hospital afford the lecturer ample opportunities to refer to living examples of very many of the maladies he describes, and to give the results of treatment.

### CLINICAL MEDICINE.

PROFESSOR, GEORGE ROSS.

Attendance is given the Medical Wards of the Montreal General Hospital on three days of every week, with the 3rd year students, and three days with those of the 4th year. Accurate reports of all cases are kept by duly appointed clinical clerks, and are systematically read before the class. Instruction is given at the bedside, and special inducements are offered to every pupil to take part in the physical examination of patients. The mode of conducting investigation, the use of the microscope, the value of the thermometer and ophthalmoscope, &c., in medical diagnosis, are all explained and illustrated. Senior Students are called upon in rotation to examine new cases before the class, and to be examined thereon as to their general knowledge. In addition, one weekly Clinical Lecture is delivered, bearing upon some case or cases of importance which may happen to be under observation at the time. Special attention is directed to Medical Anatomy, and candidates for the degree will be examined thereon.

### SURGERY.

PROFESSOR, GEO. E. FENWICK.

The first part of this course consists of Surgical Pathology, illustrated by a large collection of preparations from the College Museum, also specimens as they are obtained from cases under observation at the Hospital, and contributed to that collection by the Hospital pathologist, and from private sources. The second part of the course is devoted to the practice of Surgery, in which attention is drawn to cases which have been observed by the class during the previous summer session. The various surgical appliances are exhibited, and their uses and application explained. Surgical Anatomy and Operative Surgery form a special department of this course, and Quain's and Maclise's plates are used in illustration.

### CLINICAL SURGERY.

PROFESSOR, THOMAS G. RODDICK.

This course is eminently practical, consisting of bedside instruction and lectures delivered weekly, illustrative of surgical cases actually present in the wards of the General Hospital. The class is separated into junior and senior divisions, which are taken charge of by the Professor on alternate days, when the reports of the Clinical clerks are read and criticised, and fresh cases are examined by the senior

students. The surgical dressings are, as much as possible, reserved for these occasions, so as to give all present an opportunity of participating in the application of splints to fractures, dressing of wounds, minor operations, &c. Major operations are performed in the theatre attached to the Hospital, which is so constructed that the most distant can obtain a fair view of the operations. All the recently invented appliances for the treatment of surgical diseases have been introduced into the Hospital.

### MIDWIFERY.

PROFESSOR, J. C. CAMERON.

This course will embrace: 1. Lectures on the principles and practice of the obstetric art, illustrated by diagrams, fresh and preserved specimens, the artificial pelvis, &c. 2. Bedside instructor in the University Maternity, including the management and after-treatment of cases. 3. A complete course on obstetric operations with the phantom and preserved fœtuses, in which each final student will perform the various manipulations and operations. The Diseases of Infancy.

### GYNÆCOLOGY.

PROFESSOR, WM. GARDNER.

The course on this subject will comprise two lectures a week throughout the session. The anatomy and physiology of the parts concerned will be first discussed. Then the various methods of examination will be fully described, the necessary instruments exhibited, and their uses explained. After this, the diseases peculiar to the sex will be considered as fully as time will permit, in the following order:—Disorders of Menstruation; Leucorrhœa, its causes and treatment; Pelvic Cellulitis and Peritonitis; Lacerations of the Cervix Uteri and Perineum; Urinary and Fæcal Fistulæ; Inflammations of the Uterus; Displacements of the Uterus; Tumors of the Uterus; Diseases of the Ovaries.

The lectures will be illustrated as fully as possible by drawings and morbid specimens. The Gynæcological Clinic of the General Hospital furnishes the Professor with ample material to illustrate the subjects considered in the didactic lectures.

### MEDICAL JURISPRUDENCE.

PROFESSOR, GEO. WILKINS.

This course includes Insanity, the subject being treated of in its Medical as well as Medico-legal aspects. Special attention is devoted to the subject of blood stains, the Clinical, Microscopic and Spectroscopic tests for which are fully described and shown to the class. The various spectra of blood in its different conditions are shewn by Zeiss' Microspectroscope, so well adapted for shewing the reactions with exceedingly minute quantities of suspected material. Recent researches in

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the diagnosis of human from animal blood are alluded to. In addition to the other subjects usually included in a course of this kind, Toxicology is taken up. The modes of action of poisons, general evidence of poisoning, and classification of poisons are first treated of, after which the more common poisons are described, with reference to symptoms, post-mortem appearances, and chemical tests. The post-mortem appearances are illustrated by plates, and the tests are shown to the class.

### OPHTHALMOLOGY AND OTOTOLOGY.

PROFESSOR, FRANK BULLER.

Will include a course of lectures on diseases of the Eye and the Ear, both Didactic and Clinical. In the former the general principles of diagnosis and treatment will be dealt with; in the latter, cases illustrative of the typical forms of ordinary diseases of these organs will be exhibited and explained to the class, and afterwards placed under the special care of gentlemen who may show themselves competent to take charge of them. A course of operations on the cadaver will be open to such students as may wish to avail themselves of the same.

### HYGIENE.

PROFESSOR, R. L. MACDONNELL.

This course of Lectures will be delivered during the summer session only. It comprises lectures on Drinking-water and Public Water Supplies; conditions of Soil and Water as affecting health, including Drainage and the various methods for the removal of Excreta; the Atmosphere, including Heating and Ventilation; Individual Hygiene, comprising the subjects of Food and Drink; Physical Exercise and Bathing; discussion of the respective merits of the various forms of each, precautions, contra-indications, &c. Village Sanitary Associations; Mutual Protective Sanitary Associations for cities.

### BOTANY.

PROFESSOR, D. P. PENHALLOW.

The course in Botany includes General Morphology, Histology, Physiology and Classification. It is designed to give special prominence to Physiology, which will be made comparative whenever practicable. The course is illustrated by the microscope and gas microscope, and by the collection, models and apparatus in the Peter Redpath Museum.

### ZOOLOGY.

PROFESSOR, SIR WILLIAM DAWSON.

This course includes a systematic study of the classification of animals, illustrated by Canadian examples, and by the collections in the Peter Redpath Museum.

It affords suitable preparation for collecting in any department of Canadian Zoology or Palæontology, and an introduction to Comparative Physiology. It may be taken instead of Botany ; or along with it, without any additional fee.

Students in Botany or Zoology will receive tickets to the Peter Redpath Museum, and to the Museum of the Natural History Society of Montreal.

### PATHOLOGY.

W. G. JOHNSTON, DEMONSTRATOR.

*This Course Comprises :—*

1. Twenty-five lectures on General Pathology to students of the 3rd year.
2. Pathological Demonstrations weekly—Saturday at 10 a.m. Specimens of all kinds collected during the week, and their gross and microscopic appearances are demonstrated to the final classes. In addition, special demonstrations in Pathological Histology are given throughout the session.
3. Instruction in Post-Mortems. The Autopsy Room of the General Hospital is in charge of the Demonstrator. The post mortems are performed by the students in rotation under his direction, and systematic demonstrations of post-mortem methods, including those to be followed in Medico-legal cases, will also be given.

### EXTRACTS FROM THE UNIVERSITY REGULATIONS WITH RESPECT TO THE COURSES OF LECTURES.

- 1st. Each Professor shall deliver at least five Lectures during the week, except in Medical Jurisprudence and Botany, if extended through six months, in which case three Lectures a week will suffice.
- 2nd. Every Lecture shall be of one hour's duration.
- 3rd. Every Professor shall occasionally examine his class upon the subjects treated of in his preceding Lectures, and every such examination shall be considered as a Lecture.
- 4th. A roll of the names of the Students attending each class shall be called from time to time.

### § IV. QUALIFICATIONS FOR THE DEGREE.

The following are Extracts from the Regulations respecting the qualifications of Candidates for the Degree in Medicine :—

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1st. No one entering after October 1st, 1888, will be admitted to the Degree of Doctor of Medicine and Master of Surgery, who shall not have attended Lectures for a period of at least four six months' sessions and one three months' summer session\* in this University, or some other University, College or School of Medicine, approved of by this University.

2nd. Candidates for Final Examination shall furnish Testimonials of attendance on the following branches of Medical Education, viz. :—

ANATOMY.	}	Of which Two Courses will be required of Six Months' duration.
PRACTICAL ANATOMY.		
PHYSIOLOGY.		
CHEMISTRY.		
MATERIA MEDICA AND THERAPEUTICS.		
PRINCIPLES AND PRACTICE OF SURGERY.		
MIDWIFERY AND DISEASES OF WOMEN AND CHILDREN.		
THEORY AND PRACTICE OF MEDICINE.		
CLINICAL MEDICINE.		
CLINICAL SURGERY.		
MEDICAL JURISPRUDENCE.	}	Of which One Course of Six Months, or Two Courses of Three Months will be required.
PRACTICAL CHEMISTRY.		
BOTANY OR ZOOLOGY.	}	Of which One Course will be required of Three Months' duration.
HYGIENE.		
HISTOLOGY.	}	Ten Lectures and Twenty-five Demonstrations. Twenty-five Lectures.
GENERAL PATHOLOGY.		

*Provided, however, that Testimonials equivalent to, though not precisely the same as those above stated, may be presented and accepted.*

3rd. The Candidate must give proof by ticket of having attended during eighteen months the practice of the Montreal General Hospital, or that of some other Hospital approved of by this University; and of having compounded medicines for six months.

4th. He must also give proof by ticket of having attended for at least six months the practice of the Montreal, or other Lying-in-Hospital, approved of by this University, and of having attended at least six cases of labor.

5th. No one will be permitted to become a Candidate for examination who shall not have attended at least one Session of this University, and one full course of all the branches included in its curriculum.

6th. Courses of less length than the above will only be received for the time over which they have extended.

\*To be taken after 3rd Winter Session.

7th. Students, except by special permission of the Faculty, must pursue the subjects of Anatomy, Chemistry, Histology and Botany in their first session, and are advised to take Physiology in addition.

8th. Candidates who fail to pass in a subject of which two courses are required must attend a third course, and furnish certificates of attendance thereon.

A course in Practical Anatomy will be accepted as equivalent to a third course of lectures in General and Descriptive Anatomy.

9th. Supplemental examinations will not be granted, except by special permission of the Medical Faculty, and on written application, stating reasons.

10th. The requirements for the summer session, when as at present taken after the third winter session, shall be :—

(a.) Daily Hospital attendance ;

(b.) Maternity attendance ; and

(c.) Any two weekly clinics in addition to the clinics on General Medicine and Surgery,

11th. Every Candidate for the Degree must, on or before the fifteenth of February, present to the Registrar of the Medical Faculty testimonials of his qualifications, entitling him to an examination, and must at the same time deliver to the Registrar of the Faculty the following Certificate :—

MONTREAL, ————18—

I, the undersigned, being desirous of obtaining the Degree 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.

12th. The trials to be undergone by the Candidate shall be such as are referred to under Section V.

13th. The following Oath or affirmation will be exacted from the Candidate before receiving his degree :—

SPONSIO ACADEMICA.

In Facultate Medicinæ Universitatis.

Ego, A——B——, Doctoratus in Arte Medica, titulo jam donandus, sancto coram Deo cordium scrutatore, spondeo ;—me in omnibus grati animi officiis erga hanc Universitatem, ad extremum vitæ halitum, perseveraturum ; tum porro artem medicam caute, caste, et probe exercitaturum ; et quoad in me est, omnia ad ægrotorum corporum salutem conducentia, cum fide procuraturum ; quæ denique, inter medendum, visa vel audita silere conveniat, non sine gravi causa vulgaturum. Ita præsens mihi spondenti adsit Numen.

14th. The fee for the Degree of Doctor of Medicine and Master of Surgery shall be thirty dollars, to be paid by the successful candidate immediately after examination.

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### § V.—EXAMINATIONS.

Weekly examinations are held to test the progress of the Student ; and in addition two or three written examinations are given throughout the Session.

The examinations at the close of each Session are arranged as follows :—

#### FIRST YEAR.

*Pass Examination* in BOTANY and HISTOLOGY.

*Sessional Examination* in ANATOMY, CHEMISTRY, and PHYSIOLOGY.

A maximum of one hundred marks will be allowed for the Sessional Examination in each subject, which marks shall be reckoned in the ranking of the candidate after the examination of the following year.

#### SECOND YEAR.

*Pass Examination* in ANATOMY, CHEMISTRY, PRACTICAL CHEMISTRY and PHYSIOLOGY.

*Sessional Examination* in PHARMACOLOGY and THERAPEUTICS.

One hundred marks will be allowed for the Sessional Examination, which marks shall be reckoned in the ranking of the candidate after the examination of the following year.

#### THIRD YEAR.

*Pass Examination* in PHARMACOLOGY and THERAPEUTICS, MEDICAL JURISPRUDENCE, HYGIENE\* and PATHOLOGY.

#### FOURTH YEAR.

*Pass Examination* in MEDICINE, SURGERY, OBSTETRICS, CLINICAL MEDICINE, CLINICAL SURGERY.

By means of the above arrangement a certain definite amount of work must be accomplished in each year, and an equitable division is made between the Primary and Final branches.

With regard to the Primary Examination at the end of the second year, it remains optional with the Student whether he passes in all the branches or leaves two for the third year. In any case, Chemistry and one other must be taken at the close of the second year.

### § VI. MEDALS AND PRIZES.

1st. The Holmes Gold Medal, awarded to the Student of the

\* The examinations in Hygiene are held at the close of the summer session.

graduating class who receives the highest aggregate number of marks for the best examinations, written and oral, in both Primary and Final branches.

The Student who gains the Holmes Medal has the option of exchanging it for a Bronze Medal, and the money equivalent of the Gold Medal.

2nd. A Prize in Books awarded for the best examination, written and oral, in the Final branches. The gold medallist is not permitted to compete for this prize.

3rd. A Prize in Books awarded for the best examination, written and oral, in the Primary branches.

4th. The Sutherland Gold Medal, awarded for the best examination in Theoretical and Practical Chemistry, together with creditable examination in the Primary branches.

5th. A Prize in Books for the best examination in Practical Anatomy.

6th. A Prize in Books for the best examination in Botany; also a prize of \$20 for the best named collection of Canadian plants.†

§ VII. FEES.

*Distributed according to years, the Class Fees are as follows:—*

FIRST YEAR.

Anatomy.....	\$12	Botany.....	\$5
Physiology.....	12	Dissecting Material.....	5
Histology.....	6	Enregistration.....	5
Chemistry.....	12		
Practical Anatomy.....	12	Total.....	\$69

SECOND YEAR.

Anatomy.....	\$12	Hygiene.....	6
Practical Anatomy.....	12	Practical Physiology.....	6
Physiology.....	12	Dissecting Material.....	5
Chemistry.....	12	Enregistration.....	5
Practical Chemistry.....	12		
Chemical Reagents.....	3	Total.....	\$97
Materia Medica.....	12		

† This Prize is open to both Medical and Arts Students.

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THIRD YEAR.

Medicine.....	12	Medical Jurisprudence.....	10
Materia Medica.....	12	Pathology.....	10
Clinical Medicine.....	12	Enregistration.....	5
Surgery.....	12		
Clinical Surgery.....	12	Total.....	\$97
Midwifery and Gynæcology....	12		

FOURTH YEAR.

Medicine.....	\$12	Enregistration.....	5
Surgery.....	12		
Clinical Medicine.....	12	Total.....	\$65
Clinical Surgery.....	12	Summer Session.....	25
Midwifery and Gynæcology....	12		

HOSPITAL FEES.

Montreal General Hospital, Perpetual Ticket.....	\$20
Montreal Maternity.....	8
Total.....	\$28
Graduation Fee.....	30
Matriculation Fee, payable only if the Student takes the University Matriculation.....	5
Total Collegiate and Hospital expenses, spread over four years, about.....	\$400

It is to be understood that a Student, wishing to take any other class than that of his year can do so on payment of the class fee.

*Fees are payable in advance to the Registrar, at the time of en-  
registration.*

*Cheques or P.O. Orders for Fees may be transmitted direct to the  
Registrar, who will furnish official receipts therefor.*

§ VIII. TEXT-BOOKS.

ANATOMY.—Gray, Wilson, Quain (Eng. Ed.).

PRACTICAL ANATOMY.—Heath's Dissector, Ellis' Dissector, Holden's Dissector,  
and Landmark's.

PHYSICS.—Balfour Stewart.

INORGANIC CHEMISTRY.—Wurtz, Millar.

ORGANIC CHEMISTRY.—Armstrong.

PRACTICAL CHEMISTRY.—Odling, Galloway, Fresenius.

PHARMACOLOGY and THERAPEUTICS.—Wood, Lauder Brunton, Whitla, and Bruce.

PHYSIOLOGY.—Huxley's *Elementary Lessons*, Yeo, Foster, Prof. Mills' *Outlines of Lectures*.

PATHOLOGY.—Orth's *Diagnosis in Pathology*.

HISTOLOGY.—Klein's *Elements*, Schafer's *Essentials of Histology*.

SURGERY.—Holmes' *Surgery* (Eng. Ed.), Erichsen, Druitt, Bryant.

PRACTICE OF MEDICINE.—Flint, Roberts, Bristowe, DaCosta, Fagge.

FOR REFERENCE.—Pepper's *System of Medicine*.

CLINICAL MEDICINE.—Graham Brown's *Manual of Diagnosis*, Finlayson's *Clinical Manual*, Flint on *Auscultation and Percussion*, and Loomis on *Physical Diagnosis*.

MEDICAL JURISPRUDENCE.—Husband, Guy and Ferrier, Reese.

MIDWIFERY.—Lusk, Galabin.

GYNÆCOLOGY.—Edis, Goodell's *Lessons*, Hart and Barbour's *Manual*, Thornburn.

HYGIENE.—Parks, Wilson (Eng. Ed.).

BOTANY.—Gray's *Text-Book of Histology and Physiology*.

ZOOLOGY.—Dawson's *Handbook of Canadian Zoology*.

## § IX. MUSEUM.

CURATOR, W. R. SUTHERLAND, M.D.

Most of the usual Pathological Specimens are collected here, obtained from Hospital and private practice. They are largely used in illustrating the lectures on Medicine and Surgery. There are also wax and papier-marché models.

During the past few years numerous and extremely important additions have been made to the Medical Museum.

It is particularly rich in specimens of Aneurisms. In addition to containing a large number of the more common varieties of these formations, there are specimens of such rare conditions as Aneurism of the Hepatic and Superior Mesenteric Arteries, Traumatic Aneurism of the Vertebral, together with several of the cerebral and

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pulmonary arteries. The most important collection probably in existence of hearts affected with "Malignant Endocarditis" is also found. The Faculty are indebted to Prof. Osler, late of this University, for this collection.

Specimens representing morbid alterations of the liver, and gall bladder, including Cirrhosis (a beautiful specimen of the Hypertrophic form, weighing 9½ lbs.), Hydatids, Cancer, Abscess Suppurative Hepatitis following Aneurism of the Hepatic Artery. This section also contains a large number of Biliary Calculi.

*Intestines and Peritoneum.*—Specimens illustrating the Morbid Anatomy of Typhoid Fever, Tropical Dysentery, Ulceration, and Malignant Disease.

*Urinary Organs.*—Besides the various forms of Bright's Disease, there are a number of specimens of Surgical and Cystic Kidneys, together with two specimens of Myelo-Sarcoma. A cabinet of Urinary Calculi, collected by Dr. Fenwick, is the property of the Museum.

*Bones and Joints.*—During the past two years the Faculty have made very extensive additions to the specimens illustrating diseases of the bones and joints, all of which are beautifully mounted.

*Nervous System.*—In this section are included a most beautiful collection of Brains, prepared by Dr. Osler after the method of Giacomini. Besides those illustrating pathological defect, there are normal specimens of the brains of horse, cow, dog, cat, pigeon, goose, lion, bear, seal, &c.

The Museum also contains a collection of human abnormalities, made by Dr. Shepherd during the time he was Demonstrator of Anatomy.

A collection of specimens of eye diseases, made by Dr. Buller, has been presented to the Museum.

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#### § X. LIBRARY.

The Library of the Medical Faculty now comprises upwards of ten thousand volumes, the largest special library connected with any medical school on this continent.

The standard text-books and works of reference, together with complete files of the leading periodicals, are on the shelves. Students may obtain books on making a deposit of \$5, which is refunded on returning the volumes.

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§ XI.—M'GILL MEDICAL SOCIETY.

This Society, composed of enregistered Students of the Faculty, meets once a week during the Summer Session, and fortnightly during the Winter, for the reading of papers and the discussion of medical subjects. It is presided over by a physician chosen by the members.

A reading room has been established in connection with the Society, in which the leading English and American Medical Journals are on file.

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✕ § XII.—COST OF LIVING, &c. ✕

This will, of course, vary with the tastes and habits of the Student, but the necessary expenses need not exceed those in smaller towns. Good board may be obtained from \$15 to \$20 per month. A list of boarding-houses is prepared annually by the Secretary of the University, and may be procured from the Janitor at the Medical College.

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§ XIII.—HOSPITALS.

*Montreal General Hospital.*

The Montreal General Hospital is the most extensive clinical field in the Dominion. A much larger number of in-door and out-door patients receive treatment there than in any other Canadian Hospital. Last year's report shows that 2,347 Medical and Surgical cases were treated in the wards, and the great proportion of these were acute cases, as may be gathered from the fact that the average duration of residence was only 23.6 days.

The large number of out-door patients that are treated in the Hospital—averaging from eighty to one hundred daily—supply illustrations of most of the diseases of infants and children, of very many of the eye and skin, and of those chronic and ill-defined ailments which,

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as they do not require admission to the wards of a hospital, would not otherwise come under the observation of the Student.

The large number of patients affected with diseases of the eye and ear, now attending the out-door department, will afford Students ample opportunity to become familiar with all the ordinary affections of those organs, and to make themselves proficient in the use of the ophthalmoscope, and it is hoped that every student will thus seek to gain a practical knowledge of this important branch of Medicine and Surgery. Operations are performed on the eye by Dr. Buller, after the out-door patients have been seen, and Students are invited to attend the same, and, as far as practicable, to keep such cases under observation so long as they remain in the Hospital.

There are now special departments in the Hospital for Gynæcology and Laryngology, presided over by Specialists in these branches. Students are thus enabled to acquire special technical knowledge under skilled direction. The plan of teaching practical gynæcology for the past five years with marked success has been the limitation of the number of Students to two or three, who in rotation assist at the examinations, and receive instruction in the diagnosis and treatment of uterine diseases, and the use of gynæcological instruments.

CLINICAL CLERKS, in both medical and surgical wards, are appointed every three months, and each one during his term of service conducts, under the immediate directions of the Clinical Professors, the reporting of all cases in the ward allotted him. The holding of one of these offices is found to be of the greatest possible advantage to Students, as affording a true *practical* training for his future professional life. They will be awarded on application at the end of each Session to final Students of that year, in order of their standing in the primary examination.

DRESSERS are also appointed to the Surgical wards, and to the Out-door Department. For these appointments application is to be made to the Professor of Clinical Surgery, and to the Out-door attending Physicians and Surgeons.

The Operating Room (used also for a lecture room) is so constructed as to enable the Students to obtain a good view of the operations.

*Montreal Dispensary.*

ST. ANTOINE STREET.

Over 12,000 patients yearly are treated at this Institution. The cases are of great variety, comprising a large number of pulmonary affections and children's diseases. Minor operations are of daily occurrence, and excellent practice is afforded in the application of splints and bandages. The attending Physicians furnish Students with all possible facilities. The hours of attendance are from 12 to 2 daily.

*The Montreal Maternity.*

The Faculty have great pleasure in announcing that the Governors of the Montreal Maternity have greatly enlarged the building, and are contemplating still further additions and improvements this summer. It is constructed with all those modern improvements, which science and experience have demonstrated to be of value in this class of buildings. Students will in future, therefore, have much more abundant opportunities for becoming practically acquainted with Midwifery practice. The maternity will, as in the past, be under the direction of the Professor of Midwifery, and Students who have already attended one course of his lectures will be furnished with cases in rotation. Particular attention will be given to individual clinical instruction. Students are advised to attend this Institution as much as possible during the summer, when, since there are as many patients and not so many pupils as in winter, a larger proportion of cases falls to the share of each. The course of instruction now extends over one year instead of six months as formerly.

## § XIV.—STUDENTS' APPOINTMENTS.

General Hospital—Three Resident Medical Officers.

Clinical Clerk, Gynæcology,

“ “ Laryngology.

“ “ Diseases of Children.

“ “ Dermatology.

“ “ Diseases of Nervous System.

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University Maternity—Two Resident Medical Officers.

Out-door Dressers.

Dressers in Eye and Ear Department.

Surgical Dressers (In-door).

Medical Clinical Clerks.

Post-mortem Clerks.

Students Demonstrators of Anatomy, 4 third-year Students.

Prosectors to Chair of Anatomy, 2.

Assistants in Practical Histology Course, 2.

Assistants in Practical Physiology Course, 4.

Assistants in Practical Chemistry, 2.

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#### § XV. RULES FOR STUDENTS.

1. In the case of disorderly conduct, any Student may, at the discretion of the Professor, be required to leave the Class-room. Persistence in any offence against discipline after admonition by the Professor shall be reported to the Dean of the Faculty. The Dean may, at his discretion, reprimand the Student, or refer the matter to the Faculty at its next meeting, and may in the interval suspend from classes.

2. Absence from any number of lectures can only be excused by necessity or duty, of which proof must be given, when called for, to the Faculty. The number of times of absence, from necessity or duty, that shall disqualify for the keeping of a Session, shall in each case be determined by the Faculty.

3. While in the College, Students are expected to conduct themselves in the same orderly manner as in the Class-room.

4. When Students are brought before the Faculty under the above rules, the Faculty may reprimand, impose fines, disqualify from competing for prizes and honors, suspend from Classes, or report to the Corporation for expulsion.

# McGill University.—Faculty of Medicine.

TIME TABLE—FIRST AND SECOND YEARS, 1888-89.

A. M.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
9	Anatomy Examination.	Anatomy.	Anatomy.	Anatomy.	Anatomy.	Physiology, 2nd Year.
10	* Practical Chemistry, 2nd Year, till 12 o'clock.	Practical Chemistry, II. Botany, 1st Year.	Practical Chemistry, 2nd Year.	Practical Chemistry, Botany, 1st Year.	Practical Chemistry, 2nd Year.	Practical Chemistry, Practical Physiology, Histology Demonstration.
11	Out-Patients, Montreal Gen'l Hospital.	Out-Patients, Montreal Gen'l Hospital. Zoology.	Out-Patients, Montreal Gen'l Hospital.	Out-Patients, Montreal Gen'l Hospital.	Out-Patients, Montreal Gen'l Hospital. Zoology.	Out-Patients, Montreal Gen'l Hospital.
P. M. 2	Physiology Examination, 2nd Year.	Physiology, 2nd Year.	Physiology, 2nd Year.	Physiology, 1st Year.	Physiology, 1st and 2nd Years.	
3	Chemistry Examination.	Chemistry.	Chemistry.	Chemistry.	Chemistry.	
4	Therapeutics Examination. Physiology, 1st Year.	Therapeutics, Physiology, 1st Year.	Therapeutics, Physiology, 1st Year.	Therapeutics.	Therapeutics. Histology Lectures, 1st Year.	
4 to 6		Practical Histology.		Practical Histology.		
A. M. 10 to 12	Practical Anatomy.	Practical Anatomy.	Practical Anatomy.	Practical Anatomy.	Practical Anatomy.	Practical Anatomy.

N.B.—The Demonstrator's Hours in the Dissecting Room from 10-12 a. m., and from 8-10 p. m. \* Until Christmas only.

# McGill University.—Faculty of Medicine.

TIME TABLE—THIRD AND FOURTH YEARS, 1888-89.

## McGill University. — Faculty of Medicine.

TIME TABLE—THIRD AND FOURTH YEARS, 1888-89.

A.M.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
9	Midwifery.	Gynaecology.	Midwifery.	Gynaecology.	Midwifery.	
10	Surgery. Examination.	Surgery.	Surgery.	Surgery.	Surgery.	Morbid Anatomy. Demonstrations.
11	Practice of Medicine. Examination.	Practice of Medicine.	Practice of Medicine.	Practice of Medicine.	Practice of Medicine.	
P.M. 1-2.30	Medical Clinic, 4th Year. Surgical Clinic, 3rd Year.	Surgical Clinic, 4th Year. Medical Clinic, 3rd Year.	Medical Clinic, 4th Year. Surgical Clinic, 3rd Year.	Surgical Clinic, 4th Year. Medical Clinic, 3rd Year.	Medical Clinic, 4th Year. Surgical Clinic, 3rd Year.	Surgical Clinic, 4th Year. Medical Clinic, 3rd Year.
1		Clinic on Diseases of Children.		Clinic on Diseases of Children.		Clinic on Diseases of Children.
2					Skin Clinic.	
2.30			Neurological Clinic.			
2.30	Ophthalmic Clinic.		Ophthalmic Clinic.		Ophthalmic Clinic.	
4	Therapeutics Examination.	Therapeutics.	Therapeutics.	Therapeutics.	Therapeutics.	
4	Gynaecological Clinic.	General Pathology.	Gynaecological Clinic.	Lecture on Ophthalmology.	Gynaecological Clinic.	

Autopsies are performed at the General Hospital between 12 and 2 P.M.

N.B.—The Demonstrator's Hours in the Dissecting Room from 10-12 a.m., and from 8-10 p.m. \* Until Christmas only.

A.M. 10 to 12	Practical Anatomy.				
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# Faculty of Law.

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THE PRINCIPAL (EX-officio).

Professors :—LAFLAMME.\*

TRENHOLME.

WURTELE.\*

RAINVILLE.\*

ARCHIBALD.

Professors :—LAREAU.

HUTCHINSON.

ROBIDOUX.

DAVIDSON.

MCGOUN.

Lecturer :—HART.

Dean of Faculty.—Professor N. W. TRENHOLME, M.A., D.C.L.

Registrar of the Faculty.—ARCH. MCGOUN, B.A., B.C.L.

Corporation Examiners for Degrees.—Professors N. W. TRENHOLME, M.A., D.C.L., and EDMOND LAREAU, D.C.L.

Matriculation Examiners of the Faculty.—Professors J. S. ARCHIBALD, M.A., D.C.L., and EDMOND LAREAU, D.C.L.

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The Classes in Law will begin with an opening Lecture on Monday the first of October, 1888 ; and will extend to 12th April, 1889. The Examinations will be held in the William Molson's Hall, McGill College building, at the close of the Session, and beginning on the 16th April, 1889.

The complete course of study in this Faculty extends over three years ; but it may be shortened to two years, when the Student matriculates in the third year of his indentures.

Students who avail themselves of the privilege of attending two years only, will, nevertheless, be required to pass an examination in the subjects comprised in the three years' course.

Matriculated Students who do not take the whole course are classed as Partial Students and are not entitled to proceed to the Degree of B.C.L.

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\* Emeritus.

Occasional Students will be received without matriculation for attendance on any particular series of Lectures.

Students who have completed their course of three years,—or of two years, if they have commenced in the third year of their indentures,—and have passed a satisfactory examination, will be entitled, upon the certificate and recommendation of the Faculty, to the Degree of Bachelor of Civil Law.

COURSE OF STUDY FOR 1888-89.

FIRST YEAR.

*Legal History*..... Professor LAREAU.

*Civil Law :*

Persons ..... }  
 Property ..... } Professor ROBIDOUX.  
 Ownership ..... }

*Roman Law :*

History of Roman Law ..... }  
 Institutes of Justinian, Bk. I. .... } Professor HUTCHINSON.  
 Maine, chapters I. to IV. .... }

*Civil and Commercial Law :*

Commercial agency ..... }  
 Partnership ..... } Professor DAVIDSON.  
 Joint Stock Companies. .... }

*Civil Procedure :*

Jurisdiction of Civil Courts ..... }  
 General Rules of Pleading ..... } Professor MCGOUN.  
 Code of Procedure, Arts. 1 to 135 .....

Constitutional Law. .... }  
 Criminal Procedure ..... } Professor ARCHIBALD.  
 Election Law .....

*Notarial Course :*

Theory and Practice of Notarial Deeds and Proceedings ..... } Lecturer HART.

SECOND AND THIRD YEARS.

*Legal Bibliography :*

*Civil Law :*

Privileges and Hypothecs ..... }  
 Prescriptions. .... } Professor LAREAU.  
 Imprisonment in Civil Cases. .... }

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*Civil Law :*

Usufruct, Use and Habitation..... }  
 Real Servitudes..... } Professor ROBIDOUX.  
 Emphytensis..... }

*Commercial Sales :*

*International Law* (Public and Private)..... } Professor TRENHOLME.

*Roman Law :*

Institutes of Justinian, B. II. and B. III. to Title 14. }  
 Maine, Chapters V. to VIII..... } Professor HUTCHINSON.

*Commercial Law :*

Merchant Shipping and Affreightment..... Professor DAVIDSON.

*Civil Procedure :*

From Article 136 to Article 762..... Professor MCGOUN.

Criminal Procedure..... }  
 Constitutional Law..... } Professor ARCHIBALD.  
 Election Law..... }

*Notarial Course :*

Theory and Practice of Notarial Deeds and Proceedings..... } Lecturer HART.

FACULTY REGULATIONS.

1. Any person desirous of becoming a Matriculated Student shall apply to the Dean of the Faculty for examination and entry in the Register of Matriculation, and shall procure a ticket of Matriculation and tickets of admission to the Lectures for each Session of the Course. Students are requested to call on the Registrar, who will furnish them with the necessary forms.

2. Candidates for Matriculation shall pass an examination, satisfactory to the Faculty of Law, in Latin, French, English, Mathematics, and Ancient and Modern History, and the books upon which such examination shall be had shall be from time to time fixed by the Faculty.

II. MATRICULATION IN THE FACULTY OF LAW.

The books at present prescribed are the following :

*Latin.*—Virgil, *Æneid*, Book I. ; Cicero, *Oration*s I. and II. against Catiline ; Latin Grammar.

*French.*—De Fivas' "Grammaire des Grammaires ;" \*Molière, "Le Bourgeois Gentilhomme ;" †Translation into French of Macaulay's *Essay on Frederick the Great*.

*Exercises in composition* and grammatical analysis, in English and French.

*Mathematics*.—Arithmetic ; Algebra to the end of simple equations ; Euclid, Books I., II., III.

*History*.—White's Outline of Universal History (or any equivalent manual),  
\*Green's Short History of the English People ; Miles' School History of Canada ; † Duruy, Histoire de France.

*Literature*.—\*Collier's Biographical History of English Literature ; † Laharpe, Cours de Littérature ; † Lefranc, Cours de Littérature.

*Rhetoric*—Whately's Rhetoric ; Blair's Lectures (small edition).

*Philosophy*.—\*Whately's Logic ; † Logique de Port Royal ; † Cousin, Histoires de la Philosophie ; \* Stewart's Outline of Moral Philosophy.

N.B.—The works mentioned above preceded by an asterisk are for English students only. Those preceded by a cross are for French Students only. The remainder are for both English and French.

3. Students in Law shall be known as of the First, Second and Third Years, and shall be so graded by the Faculty. In each year, Students shall take the studies fixed for that year, and those only, unless by special permission of the Faculty.

4. The Register of Matriculation shall be closed on the 1st of November in each year, and return thereof shall be immediately made by the Dean to the Registrar of the University. Candidates applying thereafter may be admitted on a special examination to be determined by the Faculty ; and, if admitted, their names shall be returned in a supplementary list to the Registrar.

5. Persons desirous of entering as Occasional Students shall apply to the Dean of the Faculty for admission as such Students, and shall obtain a ticket or tickets for the class or classes they desire to attend.

6. Students who have attended Collegiate courses of study in other Universities, for a number of terms or sessions, may be admitted, on the production of certificates, to a like standing in this University, after examination by the Faculty.

7. All Students shall be subject to the following regulations for attendance and conduct :—

(1) A class-book shall be kept by each Professor and Lecturer, in which the presence or absence of Students shall be carefully noted ; and the said class-book shall be submitted to the Faculty at a meeting to be held between the close of the lectures and the commencement of the examinations ; and the Faculty shall, after examination of such class-book, decide which students shall be deemed to have been sufficiently regular in their attendance to entitle them to proceed to the examination in the respective classes.

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(2) Punctual attendance on all the classes proper to his year is required of each Student. Professors will note the attendance immediately on the commencement of their lectures, and will omit the names of Students entering thereafter, unless satisfactory reasons are assigned. Absence or tardiness, without sufficient excuse, or inattention or disorder in the Class room, if persisted in after admonition by the Professor, will be reported to the Dean of the Faculty, who may reprimand the Student or report to the Faculty, as he may decide. While in the building, or going to or from it, Students are expected to conduct themselves in the same orderly manner as in the Class rooms. Any Professor observing improper conduct in the Class-rooms, or elsewhere in the building, will admonish the student; and, if necessary, report him to the Dean.

(3) When Students are reported to the Faculty under the above rules, the Faculty may reprimand, report to parents or guardians, disqualify from competing for prizes or honours, suspend from classes, or report to the Corporation for expulsion.

(4) Any Student injuring the furniture or building will be required to repair the same at his own expense, and will, in addition, be subject to such penalty as the Faculty may see fit to impose.

(5) The number of times of absence, from necessity or duty, that shall disqualify for the keeping of a Session, shall in each case be determined by the Faculty.

(6) All cases of discipline involving the interests of more than one Faculty, or of the University generally, shall be reported to the Principal, or, in his absence, to the Vice-Principal.

8. The College year shall be divided into two terms, the first extending to the Christmas vacation, and the second from the expiration of the Christmas vacation to the 12th of April following.

Four Professors shall deliver their courses of lectures during the first term, and three during the second term in each year. Each Professor shall lecture daily during his course, and each lecture shall be of one hour's duration; but the Professors shall have the right to substitute an examination for any such lecture.

9. At the end of each term there shall be a general examination of all the classes, under the superintendence of the Professors, and of such other examiners as may be appointed by the Corporation; which examination shall be conducted by means of printed questions, answered by the students in writing in the presence of the Examiners. The result shall be reported as early as possible to the Faculty.

After the examinations at the close of the second term, the Faculty shall decide the general standing of the students, taking into consideration the examinations of both terms, both of which examinations shall be considered the Sessional or Final Examinations for the college year, as the case may be.

10. No Student shall be considered as having kept a Session unless he shall have attended regularly all the courses of Lectures, and shall have passed the Sessional Examinations to the satisfaction of the Faculty in all the classes of his year.

11. The Faculty shall have the power, upon special and sufficient cause shown, to grant a dispensation to any Student from attendance on any particular Course or Courses of Lectures, but no distinction shall, in consequence, be made between the Examinations of such Students and those of the Students regularly attending Lectures. No Student shall pass for the degree of B.C.L. unless he has prepared a Thesis, either in French or English, which shall have been approved by the Faculty.

12. The subject of such Thesis shall be left to the choice of the Student, but it must fall within the range of study of the Faculty, and shall not exceed twenty pages of thirty lines each. Each Student shall, on or before the first day of March, forward such Thesis to the Registrar of the Faculty, marked with the *nom de plume* which he shall adopt, and accompanied with a sealed envelope, bearing the same *nom de plume* on it, and containing inside his name and the subject of his Thesis, and the envelope shall be opened in presence of the Faculty after the final decision shall be given on the respective merits of the several Thesis.

13. The Elizabeth Torrance Gold Medal, in the Faculty of Law, shall be awarded to the Student who, being of the Graduating Class, having passed the Final Examinations, and having prepared a Thesis of sufficient merit in the estimation of the Faculty to entitle him to compete, shall take the highest marks in a special Examination for the medal, which examination shall include the subject of Roman Law.

14. Every Candidate, before receiving the Degree of B.C.L., shall make the following declaration :

Ego A. B. polliceor, me, pro viribus meis, studiosum fore communis Lujus Universitatis boni, operamque daturum ut decus ejus ac dignitatem amplificem, et officiis omnibus ad Baccalaureatus in Jure Civili gradum pertinentibus fungar.

15. The fees in this Faculty are as follows :

Matriculation Fee.....	\$ 5 00
Sessional Fee by Ordinary Students.....	36 00
Sessional Fee by Occasional or Partial Students, for each course.....	5 00
Graduation Fee, including Diploma and Case.....	10 00
Additional Fee for Notarial Students.....	10 00

Matriculation and Sessional Fees must be paid on or before Nov. 1st, and if not so paid the name of the Student shall be removed from the books, but may be re-entered by consent of the Faculty, and on payment of a fine of not less than \$3 Students already on the books of the University shall not be required to pay any Matriculation Fee.

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16. The Course of Lectures upon the Theory and Practice of Notarial Deeds and Proceedings is optional to candidates for the profession of law, but is compulsory upon candidates for the Notarial profession; the latter may omit the subject of Civil Procedure.

17. Notarial students shall rank for general standing upon their examination in the notarial class, and failure to pass such examination shall have the same effect as failure in any other compulsory subject.

18. Occasional students may be admitted into said class on such terms as shall be arranged by the Faculty.

19. Every Candidate for the Degree of D.C.L. in course, under Chap. VIII., Section 4, of the Statutes of the University, shall be required to pass within four years from his graduation as B.C.L. such examination as shall be prescribed by the regulations of the Faculty of Law; unless he shall have graduated as a B.A. of this University, either in Course or *ad eundem*. And not less than two months before proceeding to the Degree of D.C.L., the Candidate shall deliver to the Faculty of Law twenty-five printed copies of a Thesis or Treatise upon a subject selected or approved by the Faculty; such Thesis to contain not less than twenty-five octavo pages of printed matter, and possessing such degree of literary and scientific merit as shall, in the opinion of the Faculty, justify them in recommending him for that Degree. And in addition to the foregoing qualifications, the Candidate shall pay to the Secretary of the Faculty annually during term, for the retention of his name on the Books of the Faculty, during the said period of twelve years, a fee of two dollars, to be added to the Library Fund of the Faculty.

Except as regards the Thesis, this regulation applies only to those who have taken the Degree of B.C.L. subsequently to October, 1873. The examination under the above rule is as follows:

(1) *International Law* :—

Phillimore: Wharton, Conflict of Law; Fœlix, Droit International Privé.

(2) *Roman Law* :—

Gaii Commentarii, IV.; Pauli Sententiæ; Pomponii Fragmentum de origine juris, D. 1, 2; Novellæ Justiniani, cxxviii cxxvii; Ortolan, Institutes de Justinien, Vol. i.; Mommsen's History of Rome.

(3) *Constitutional Law* :—

Hallam, Constitutional History of England; May, Constitutional History of England; Mill, Representative Government; The British North America Act, and cases thereunder.

The Council of the University of London has the honor to inform you that the following regulations have been adopted for the examination of students of the University of London who are desirous of obtaining the degree of Bachelor of Science in the Faculty of Science.

### UNIVERSITY OF LONDON

#### TITLE OF ASSOCIATE IN ARTS

The Examinations are held in London and in the various centres of the University of London. The Examinations are held in London and in the various centres of the University of London. The Examinations are held in London and in the various centres of the University of London.

#### SUBJECTS OF EXAMINATION

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#### II. ORDINAL EXAMINATIONS

The Examinations are held in London and in the various centres of the University of London. The Examinations are held in London and in the various centres of the University of London. The Examinations are held in London and in the various centres of the University of London.

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## University School Examinations.

1889.

UNDER THE SUPERINTENDENCE OF MCGILL UNIVERSITY, MONTREAL, AND THE  
UNIVERSITY OF BISHOP'S COLLEGE, LENNOXVILLE, AND SANCTIONED BY  
THE PROTESTANT COMMITTEE OF THE COUNCIL OF PUBLIC INSTRUCTION.

### FOR CERTIFICATES OF THE UNIVERSITIES AND THE TITLE OF ASSOCIATE IN ARTS.

These Examinations are held in Montreal and at Lennoxville; and local centres may be appointed elsewhere on application to the Principal of either University, accompanied with the names of satisfactory Deputy Examiners, and guarantee for the payment of necessary expenses.

The Examinations are open to Boys or Girls, from any Canadian School.

#### SUBJECTS OF EXAMINATION.

##### I. PRELIMINARY SUBJECTS.

<i>English Reading</i> .....	30	<i>Marks.</i>
<i>Writing</i> .....	30	do
<i>English Dictation</i> .....	50	do
<i>English Grammar</i> .....	50	do
<i>Arithmetic</i> (all the ordinary rules, including square root) .....	100	do
<i>Geography</i> (acquaintance with the maps of each of the four continents, and of British North America).....	50	do
<i>British History and Canadian History</i> .....	50	do

The Candidates will also be examined in the Gospels, unless objection be made thereto by their parents or guardians, and creditable answering in the same will be mentioned in the Certificate.

##### II. OPTIONAL SUBJECTS.

##### Section I. Languages.

*Latin* :—

Cæsar.—Bell. Gall. Bk. I.

Virgil.—Æneid, Bk. I.

Cicero.—In Catilinam, Oratt. I. and II.

} 150 marks.

*Greek* :—  
 Xenophon.—Anabasis Bk. I. } 150 do  
 Homer.—Iliad, Bk. IV. }

*French* :—  
 Grammar, Dictation. }  
 Darey's Lectures Françaises (selected extracts). } 120 do  
 Re-translation, English into French. }

*German* :—  
 Grammar. }  
 Adler's Reader, Sections I. and II. } 120 do  
 Translation from German into English. }

Zool.  
 Bota  
 Geol  
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 Phys

**Section 2. Mathematics, Natural Philosophy, &c.**

*Geometry* :—  
 Euclid, I., II., III..... 150 do

*Algebra* :—  
 Elementary Rules, Involution, Evolution, Fractions, Simple }  
 Equations. } 150 do

*Plane Trigonometry.*  
 (As in Hamblin Smith, pp. 1-100, omitting Ch. XI.) 100 do

*Natural Philosophy.*  
 Mechanics and Hydrostatics (as in any ordinary School Text }  
 Book). } 100 do

*Geometrical and Freehand Drawing.*..... 100 do  
*Geometrical.*—Vere Foster R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, problems 119 to 129.  
*Freehand*—Rules of Perspective. Drawing from the object.

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**Section 3. English.**

*The English Language.*  
 Mason's Grammar, including derivation and omitting }  
 appendix. } 120 do  
 Trench's Study of Words. }

*English Literature.*  
 English Literature, Primer by S. A. Brooke. }  
 Shakespeare, Julius Cæsar. } 120 do  
 Scott's Lady of the Lake. }

*History.*—(As in Primers of Greece and Rome, and either of the  
 following, namely : Collier's great Events, or MacLear's Old  
 and New Testament History).

*Geography.*—Physical, Political and Commercial (as in Calkin's  
 Advanced)..... 100 do

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## Section 4. Natural Science, &amp;c.

<i>Zoology</i> (as in Nicholson's Introductory Text-Book).....	100	do
<i>Botany</i> (as in Gray's "How Plants Grow").....	100	do
<i>Geology</i> (as in Dana's Text Book).....	100	do
<i>Chemistry</i> (as in Remsen's Elements of Chemistry, pp. 1 to 160)	100	do
<i>Physiology and Hygiene</i> .....	100	do

## GENERAL REGULATIONS.

1. Candidates will not be considered as having passed in any subject, unless they have obtained at least *one-third* (and, in the case of Reading and Dictation, *two-thirds*) of the total number of marks obtainable in that subject.

2. Every Candidate for the Certificate of Associate in Arts, or for the Junior Certificate, must pass in all the Preliminary Subjects.

3. Every Candidate for the Certificate of Associate in Arts must also pass in the Optional Subjects contained in one of the three following groups :

*First.*—(a) Two Subjects of Section 1, one of them being Latin or Greek.  
(b) Geometry or Algebra of Section 2.  
(c) Two of the nine Subjects of Sections 3 and 4.

*Second.*—(a) French and German of Section 1.  
(b) Geometry or Algebra of Section 2.  
(c) Two Subjects of Section 3.  
(d) One Subject of Section 4.

*Third.*—(a) One Subject of Section 1.  
(b) Two Subjects of Section 2.  
(c) Three of the nine Subjects of Sections 3 and 4.

4. Candidates for Junior Certificates must pass in the following :  
(a) One Subject of Section 1.  
(b) One Subject of Section 2.  
(c) One of the nine Subjects of Sections 3 and 4.

5. The total number of Marks gained by every Candidate, in both the preliminary Subjects (except Reading) and Optional Subjects, shall be added up, and the Candidates arranged in a printed list, at the close of the Examination; those who are under 18 years of age on the first day of the examination in the order of these totals; those over 18 years of age alphabetically. No marks in any subject shall be counted, unless the Candidate has gained at least the minimum number of Marks required for passing in that subject. The marks in not more than three subjects of section 1, three subjects of section 2, and three subjects selected:

from sections 3 and 4, will be counted. Candidates taking one classical and one modern language may, instead of a third language, take an additional subject of section 4, with Geometrical or Freehand Drawing (150 marks in the aggregate). Candidates who take two modern languages may take an additional subject of section 4, with drawing as above, to be reckoned at 180 marks. Candidates taking one subject only of section 1 may take four subjects selected from sections 3 and 4.

6. Candidates who obtain at least *two-thirds* of the marks in any Optional Subject will be entitled to a Certificate of creditable answering in that Subject, provided they satisfy the conditions for either Associate in Arts or Junior Certificate.

7. Associates in Arts who have passed in Latin, Greek,\* Algebra and Geometry, may, without further examination, enter the Faculties of Arts of the two Universities. Those who have passed in Algebra and Geometry may enter the Faculty of Applied Science of McGill University.

8. Candidates who fail, or who may be prevented by illness from completing their examinations, may come up at the next examination without extra fee.

9. The Head Master or Mistress of each school must certify to the character and ages of the pupils sent up for examination.

10. The examinations will begin on Monday, June 3rd, at 9 a.m.

11. List of the names, ages, and Optional Subjects to be taken by the candidates, together with the fee of \$4 for each Candidate, must be transmitted to the Secretary of McGill University on or before May 1st. (Blank forms and copies of the Regulations will be furnished on application.)

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The Regulations of the Protestant Committee of the Council of Public Instructor with reference to these examinations may be obtained on application to Rev. E. I. Rexford, Secretary, Department of Public Instruction, Québec.

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Extracts from Darey's Lectures Françaises, for the examination of 1889.

Extracts beginning on pp. 10, 13, 15, 20, 32, 33, 37, 42, 47, 51, 56, 63, 68, 74, 76, 85, 87, 92, 94, 99, 103, 110, 118, 125, 129, 133, 144, 149, 151, 156, 158, 162, 166, 169, 176, 179, 182, 196, 215.

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\* For women entering McGill, Greek will not be required.

## McGill Normal School,

1888-89.

### GOVERNMENT OF THE SCHOOL.

Under the Regulations for the establishment of Normal Schools in the Province of Quebec, the Superintendent of Education is empowered to associate with himself for the direction of one of these Schools the Corporation of McGill University, Montreal. In accordance with this arrangement, the Provincial Protestant Normal School is affiliated with the McGill University, and the Vice-Chancellor and four members of the Corporation of the University constitute the Committee of the Normal School for the Session of 1888-9.

### ANNOUNCEMENT FOR THE SESSION 1888-9.

This Institution is intended to give a thorough training to teachers, especially for the Protestant population of the Province of Quebec. This end is attained by instruction and training in the Normal School itself, and by practice in the Model Schools; and the arrangements, more especially with regard to bursaries in aid of boarding and travelling expenses, are of such a character as to afford the greatest possible facilities to Students from all parts of the Province,

The thirty-third Session of this school will commence on the first of September, 1888. The complete course of study extends over four years, and the Students are graded as follows:—

1. *Elementary School Class*.—Studying for the Elementary School Diploma.
2. *Model School Class*.—Studying for the Model School Diploma.
3. *Academy Class*.—Studying for the Academy diploma, by taking the ordinary course of the first and second years in the Faculty of Arts of the University.

The Announcement of the School, containing details as to courses of study, bursaries and other privileges of students and regulations, may be obtained on application to DR. ROBINS, the Principal of the School.—Address—Normal School, 32 Belmont Street, Montreal.

## Observatory.

Latitude, N.  $45^{\circ} 30' 17''$ . Longitude,  $4^{\text{h}} 54^{\text{m}} 18^{\text{s}}.55$ .

Height above sea level 187 ft.

*Superintendent.*—C. H. MCLEOD, MA. E.

*Assistant Superintendent.*—G. H. CHANDLER, M. A.

*Assistant.*—E. H. HAMILTON, B. A. SC.

*Meteorological Observations* are made every fourth hour, beginning at  $3^{\text{h}} 0^{\text{m}}$  Eastern standard time. Independent bi-hourly temperature observations are also made. The principal instruments employed are the following:—Two standard mercurial barometers; one Kew standard thermometer; two Pastorelli thermometers; one maximum thermometer; one minimum thermometer; one set of six self-recording thermometers, with controlling clock battery, etc.; two anemometers; one wind vane (wind-mill pattern); one anemograph, with battery, etc.; one sunshine recorder; one rain-band spectroscope; one rain gauge; and several spare thermometers.

The Anemometer and Vane are on the summit of Mount Royal, at a point about three-quarters of a mile north-west of the Observatory. They are 57 feet above the surface of the ground and 810 feet above sea level.

*The Astronomical Equipment* consists of:—The Blackman Telescope ( $6\frac{1}{4}$  in.); a photoheliograph ( $4\frac{1}{2}$  in.); a  $3\frac{1}{4}$  in. transit, with striding level; two 2 in. transits, arranged as collimating telescopes; one sidereal clock; one mean-time clock; one sidereal chronometer; one mean-time chronometer; one chronograph; batteries, telegraph lines and sundry minor instruments.

Observations for clock errors are made on nearly every clear night. Time exchanges are regularly made with the Toronto Observatory. Time signals are distributed throughout the city by means of the noon time-ball, continuous clock signals and the fire alarm bells; and to the country, through the telegraph lines.

The photoheliograph, which has only recently been purchased, will be employed to obtain a photograph of the sun, once on each clear day.

The Blackman telescope is employed in occasional work and for educational purposes.

## University Gymnasium.

The classes, which are open to Students of all the Faculties, will meet at the University gymnasium, at hours to suit, as far as possible, the convenience of Students, and which will be announced at the commencement of the Session.

THE WICKSTEED GOLD, SILVER AND BRONZE MEDALS FOR PHYSICAL CULTURE (the gift of Dr. R. J. Wicksteed) are offered for competition to students of the graduating class, and to students who have had instruction in the gymnasium for two sessions, the gold medals to the former, the silver and bronze medals to the latter.

The award of these medals is made by Judges, appointed by the Corporation of the University.

Every competitor for the gold medal is required to lodge with the Judges, before the examination, a certificate of good standing in the graduating class, signed by the Dean or Secretary of the Faculty to which he belongs, and the medal will not be awarded to any student who may fail in his examination for the degree.

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## University Societies.

### THE GRADUATES' SOCIETY OF MCGILL UNIVERSITY.

INCORPORATED 1880.

OFFICERS FOR 1888-89.

President : Selkirk Cross, B.A. B.C.L.

Vice-Presidents : J. W. Gardner, M.D. ; C. J. Fleet, B.A., B.C.L. ; W. T. Skaife, B. A. Sc.

Secretary : A. Falconer, B.A., B.C.L.

Treasurer : C. H. McLeod, M.E., McGill College.

Resident Councillors : Jas. Stewart, M.D. ; Rev. E. M. Taylor, M.A. ; W. W. Lynch, B.C.L., Q.C., M.P.P. ; M. Hutchinson, D.C.L. ; A. McGoun, jr., B.A., B.C.L. ; W. Dixon, B.A.

Non-Resident Councillors : Rev. E. I. Rexford, M.A., Quebec ; Robt. Bell, B. Ap. Sc., M.D., Ottawa ; Chas. Gibb, B.A., Abbotsford, Que. ; Hamilton Cassils, B.A., Toronto ; Rev. W. J. Dey, M.A., Hamilton ; Wm. Osler, M.D., Philadelphia.

X UNDERGRADUATES' LITERARY SOCIETY. X

CONSTITUTED 1880.

The object of this Society is the mutual improvement of its members, by means of debates, essays, readings, &c. The Society is open for membership to all students attending the classes in any of the Faculties of McGill College.

*President :*

J. A. McPHAIL. — *Truell*

*Vice-Presidents :*

H. PEDLEY.

M. F. LUCAS.

*Secretary.*

JAS. A. ELLIOTT.

*Assistant Secretary.*

J. M. MCGREGOR.

*Treasurer.*

W. D. GIBSON.

**MCGILL COLLEGE YOUNG MEN'S CHRISTIAN ASSOCIATION.**

**OBJECT.**—To unite in an Association all who are interested in the cause of religion, for the purpose of mutual help in the Christian life, and for the promotion of good morals and Christian living in the College.

**MEMBERSHIP.**—Open to Students of all the Faculties. Membership is of two kinds: Active—Open to a member of an Evangelical church; Associate—Open to any young man of good moral character. A social reception is given to new students at the beginning of the session.

*Hon. President.*

SIR J. W. DAWSON, LL.D.

*President :*

D. J. EVANS, 2nd Year Med.

*1st Vice-President.*

H. M. TORY, 2nd Arts.

*2nd Vice-President.*

W. F. HAMILTON, 1st Yr. Med.

*Treasurer.*

C. G. MAIN, 3rd Year Med.

*Asst.-Treasurer.*

J. W. DALEY, 2nd Yr. Arts.

*Corresponding Secretary.*

J. MACDOUGALL, B.A.

*Recording Secretary.*

A. H. HAWKINS, 2nd Ap. Sc.

**MCGILL UNIVERSITY ATHLETIC ASSOCIATION.**

ESTABLISHED 1884.

Open for membership to undergraduates in this University.

*President:* SIR WILLIAM DAWSON.*Vice-President:*

JOHN A. SPRINGLE.

*Secretary:*

W. W. MURRAY.

*Treasurer:*

B. J. HARRINGTON, B.A., Ph.D.

*Assistant Treasurer:* W. J. DELANEY.

## IN AFFILIATION.

*McGill Football Club.**Secy.:* M. F. LUCAS.*McGill Hockey Club.**Secy.:* D. B. HOLDEN.

Annual Field Meeting 19th October, 1888, comprising a programme of 20 events.

**DELTA SIGMA SOCIETY.**

OBJECT.—Mutual improvement by means of debates, Essays, &c., Open for membership to students of the Donalda Special Course for women.

*President:* Octavia G. Ritchie.*Vice-President:* Maude Squire.*Secretary-Treasurer:* Jeannie T. Botterell.*Assistant Secretary:* Louise C. Smith.*Committee:* Misses McFee, Evans, and Abbott.**THEO DORA SOCIETY.**

Principal object for the present, the diffusion of information respecting Christian Missions, and the cultivation of a Missionary Spirit. Open for membership to students of the Donalda Special Course for women.

*President:* C. M. Derick.*Vice-President:* J. Palmer.*Secretary-Treasurer:* Inez R. Botterell.

**MCGILL COLLEGE BOOK CLUB.**

ESTABLISHED A.D. 1869.

This Club, now in the twentieth year of its existence, has for its primary object,—“ to procure an early supply of new books (novels excluded) for its members ;” and, next, the increase of the College Library by the presentation thereto of these books, when no longer required by the Club. In this way, an addition has already been made to the Library of not less than 3402 volumes, in special and general literature.

Membership in the Club is open to all, at an annual subscription of ten dollars. Apart from the advantages to be directly derived from membership, there is the special privilege accorded to members of using the College Library on the same conditions as Graduates, and without making any deposit when books are borrowed. As the number of volumes in the Library now amounts to 27,000, it is clear that this privilege is of value both to special and to general readers.

The members of the Executive Committee are Dr. Johnson, Dr. Cornish, Dr. Murray, Mr. S. E. Dawson, Mr. W. M. Ramsay and Mr. D. A. Watt, to any of whom applications for membership may be addressed ; or to Mr. E. M. Renouf, at the Club Depository, 2240 St. Catherine street.

**UNIVERSITY CLUB.**

ROOMS, 8 UNIVERSITY STREET, MONTREAL.

Hon.-President : B. J. Harrington, Ph. D.

President : Chas. E. Moyse, M.A.

Vice-President : Jeffrey H. Burland, B. Ap. Sc.

Treasurer : J. F. Mackie, B.A , B.C.L.

Secretary : A. Falconer, B.A., B.C.L.

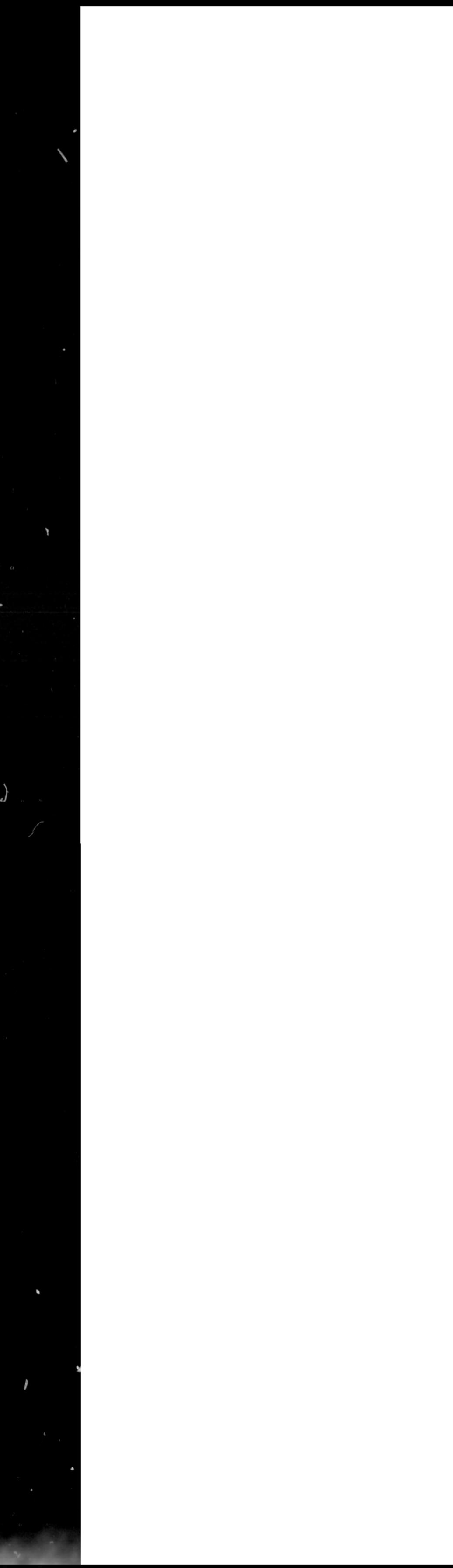
Committee : T. W. Mills, M.A., M.D., ; A. J. Eaton, M.A., Ph.D. ;  
R. C. Smith, B.C.L.

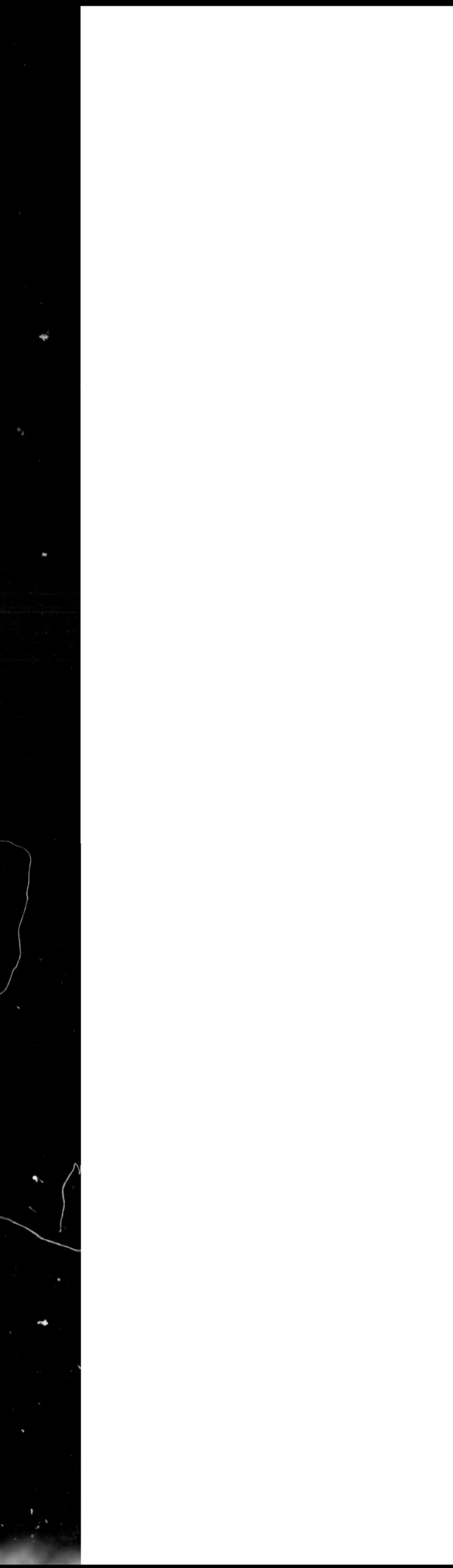














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