



### ENGLISH HISTORY.

A course of ten lectures on early English History will be delivered in the Session of 1872-3, by Professor Goldwin Smith M.A.—beginning in October. These lectures will be free to Undergraduates in Arts and in the Department of Applied Science; and two Prizes will be offered for competition, in the Examinations at the end of the course. Gentlemen not being Undergraduates will be admitted on payment of a fee of \$5. It is proposed that the lectures shall be delivered in the afternoon, and the days and hours will be announced at the beginning of the Session.

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#### ERRATA.

Page 12 line 16.—For 1871, read 1872.

“ “ 27.—For “Definitions of Book VI”, read “Definitions of Book V, Book VI.”

Page 13, line 9,—for “Four Scholarships of \$125,” read “two Scholarships of \$125, one of \$120 and one of \$100 to \$120.”

Page 15, line 12.—for “Mathematics” read “Mathematics and Physics.”

Page 41, line 18.—For “French or German”, read “French and German,” and the reverse in line 19.

## McGill University, Montreal.

The Fortieth Session of this University, being the Twentieth under the amended charter, will commence in the Autumn of 1872.

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 in 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.

### I. MCGILL COLLEGE.

**THE FACULTY OF ARTS.**—The complete course of study for the Degree of B. A. 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; all of which subjects are imperative in the first three years of the Course; but in the fourth year options are allowed in favour of the Honour Courses in Classics, Mathematics, Mental and Moral Science, Natural Science, and English Literature. Certain exemptions are also allowed to Professional Students.

**THE DEPARTMENT OF PRACTICAL AND APPLIED SCIENCE IN THE FACULTY OF ARTS** provides professional instruction in Civil-Engineering, Mining Engineering and Assaying, and Practical Chemistry; leading to the Degree of Bachelor of Applied Science.

**THE FACULTY OF MEDICINE.**—The complete course of study in Medicine extends over four Sessions, of six months each, 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 these Colleges are matriculated in the University, and may pursue their course of study wholly in the affiliated College, or in part therein and 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. The ordinary Course in Arts includes Classics, Mathematics, English Literature, Mental and Moral Philosophy and Logic. There are Honour Courses in Classics and in Mental and Moral Philosophy.

[Detailed information may be obtained from Rev. John Cook, D.D., Principal.]

**ST. FRANCIS COLLEGE, Richmond, P. Q.**—Is affiliated in so far as regards degrees in Arts.

[Detailed information may be obtained from C. W. Parkin, Esq., Principal.]

## III. AFFILIATED THEOLOGICAL COLLEGES.

**THE CONGREGATIONAL COLLEGE OF BRITISH NORTH AMERICA, Montreal.**

**THE PRESBYTERIAN COLLEGE OF MONTREAL,** in connection with the Canada Presbyterian Church.

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.

## IV. AFFILIATED SCHOOLS.

**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.

**THE MODEL SCHOOLS OF THE MCGILL NORMAL SCHOOL** are Elementary Schools, divided into a Boys' Department, Girls' Department, and Primary School. Teachers in training in the Normal School are employed in these Schools, under the supervision of the Head Master and Mistress.

(The Calendar with details of the above courses may be obtained on application. This Abstract relates specially to the Faculty of Arts.)

# GOVERNING BODY OF THE UNIVERSITY.

## VISITOR :-

His Excellency THE RIGHT HON. BARON LISGAR, P.C., K.G.C.B., G.C.M.G., &c., &c.,  
Governor General of Canada, &c.

## GOVERNORS :-

*(Being the Members of the Royal Institution for the Advancement of Learning)*

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P. B. LAVERNAYE, B.C.L., *Professor of Legal History, McGill University.*

HON. T. K. RAMSAY, M.A., *Professor of Civil Law, Morrin College.*

REV. HENRY WILKES, D.D., LL.D., *Principal and Professor of Theology and Church History in the Congregational College of British North America.*

REV. D. H. McVIGAR, LL.D., *Professor of Theology in the Presbyterian College of Montreal.*

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JOHN REDDY, M.D., *Representative Fellow in Medicine.*

SAMUEL B. SCHMIDT, M.D., *Representative Fellow in Medicine.*

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REV. JOHN JENKINS, D.D., *Chairman of the Protestant Board of School Commissioners for the City of Montreal.*

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WILLIAM WRIGHT, M.D., *Professor of Materia Medica and Pharmacy.*

J. J. MACLAREN, B.C.L., *Representative Fellow in Law.*

EDWARD HOLTON, B.C.L., *Representative Fellow in Law.*

CHARLES W. PARKIN, Esq., *Principal of St. Francis College, Richmond.*

*(The Governors, Principal and Fellows, constitute, under the Charter, the Corporation of the University.)*

## SECRETARY, REGISTRAR, AND BURSAR :-

*(And Secretary of the Royal Institution.)*

WILLIAM CRAIG BAYNES, B.A.

Office, Burnside Hall.

Office hours, 10 to 2.

Residence, Centre Building, McGill College.

# OFFICERS OF INSTRUCTION.

## PROFESSORS.

JOHN WILLIAM DAWSON, LL.D., F.R.S., F.G.S.—Principal, Logan Professor of Geology, and Professor of Natural History.	East Wing McGill College.
VEN. ARCHDEACON LEACH, D.C.L., LL.D.—Vice Principal, Dean of the Faculty of Arts, and Molson Professor of English Literature.	Blue Bonnets.
HENRY ASHFWALL HOWE, LL.D.—Emeritus Professor of Mathematics and Natural Philosophy.	Lise Carroll, Sherbrooke St. E.
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WILLIAM FRASER, M.D.—Professor of the Institutes of Medicine,	Corner Genevieve and Dorchester Sta.
WILLIAM SUTHERLAND, M.D.—Emeritus Professor in the Faculty of Medicine.	219 Dorchester Street.
WILLIAM E. SCOTT, M.D.—Professor of Anatomy.	43 Beaver Hall Terrace.
WILLIAM WRIGHT, M.D.—Professor of Materia Medica and Pharmacy.	—Lachine.
ROBERT P. HOWARD, M.D.—Professor of the Theory and Practice of Medicine.	9 Beaver Hall Hill.
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R. G. LAYLAMBE, B. C. L.—Professor of the Law of Real Estate	1 Cornwall Place
CHARLES SMALLWOOD, M.D., LL.D., D.C.L.—Professor of Meteorology.	20 Beaver Hall Place.
CHARLES F. A. MARKGRAF, M.A.—Professor of German Language and Literature.	848 Dorchester Street.
D. C. MCCALLUM, M.D.—Professor of Midwifery and Diseases of Women and Children	784 Craig Street.
ALEXANDER JOHNSON, LL.D.—Professor of Mathematics, and Redpath Professor of Natural Philosophy.	4 Place St. Sophie, McGill Col. Av.
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PIERRE J. DAREY, M.A., B.C.L.—Professor of French Language and Literature.	39 McGill College Avenue.
ROBERT GRAIS, M.D.—Professor of Chemistry.	2 Phillips Square.
EDWARD CARTER, Q. C., B. C. L.—Associate Professor of Criminal Law.	31 Cadieux Street.
G. E. FENWICK, M.D.—Professor of Clinical Surgery and Medical Jurisprudence.	24 Beaver Hall Terrace.
JOSEPH M. DRAKE, M.D.—Professor of Clinical Medicine.	19 Beaver Hall Terrace.
N. W. TRINHOLME, M.A., B.C.L.—Professor of Roman Law.	32 Radegonde Street.
J. S. C. WUFFELE, B.C.L.—Associate Professor of Commercial Law.	434 St. Catherine St.
WILLIAM H. KERB, Esq.—Professor of International Law.	387 Sherbrooke.
GEORGE F. ARMSTRONG, M.A., C.E., F.G.S.—Professor of Civil Engineering and Applied Mechanics	10 Vitru.
GILBERT P. GRIDWOOD, M.D.—Professor of Practical Chemistry.	1 Belmont St.
REV. J. CLARE MURRAY.—Professor of Logic, Mental and Moral Philosophy.	27 Beaver Hall Terrace.
<b>LECTURERS:—</b>	
JOHN S. ARCHIBALD, B. A., B. C. L.—Lecturer in Criminal Law.	30 St. Denis.
BERNARD L. HARRINGTON, B.A., Ph.D.—Lecturer in Assaying, Mining and Chemistry.	23 Beaver Hall Terrace.
WILLIAM FULLER, M.D.—Demonstrator of Anatomy.	515 Wellington,
JOHN ANDREW, Instructor in Elocution.	19 Courville Street.
FREDERICK S. BARNJUM, Instructor in Gymnastics.	7 Torrance Terrace.

## Faculty of Arts.

The Principal (ex-officio).

Professors.—LEACH.

HOWE.

DE SOLA.

DAWSON.

MARKGRAF.

SMALLWOOD.

JOHNSON.

CORNISH.

DARRY.

ARMSTRONG.

MURRAY.

Dean of the Faculty—Ven. ARCHDEACON LEACH, D. C. L., LL. D.

Lecturer in Chemistry—Dr. HARRINGTON.

Librarian—Professor MARKGRAF.

The next Session of this Faculty will commence on September 14th, 1872, and will extend to April 30th, 1873.

### § I. MATRICULATION AND ADMISSION.

Candidates for Matriculation as Undergraduates, are required to present themselves to the Dean of the Faculty, on the 16th of September, for examination; they may, however, enter after the commencement of the Session, if, on examination, found qualified to join the classes.

The subjects of examination for entrance into the First Year, are Classics, Mathematics, and English.

*In Classics.*—Latin Grammar, Greek Grammar, and one easy Latin and one easy Greek author. The authors recommended are Cæsar; Sallust; Virgil (*Æneid*, B. I.); Xenophon (*Anabasis*, B. I.); Homer (*Iliad*, B. I.).

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

*In English.*—Writing from Dictation.

Candidates may be admitted to the standing of students of the Second Year, provided that they pass the Sessional Examinations of the First Year, or an examination in the following subjects, at the beginning of the Second Year:—

*In Classics.*

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

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

*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 & Haughton's Trigonometry, Chaps. 1, 2, 3, 4, 6, to beginning of numerical solution of plane triangles.

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

*In English Literature.*—English Grammar and Composition.

*In French or German.*—Grammar and easy Translation.

[Candidates who are unable to pass the entrance Examination of the Second Year in Modern Languages, may be allowed to enter, but will be required to take additional lectures in one Modern Language in the Second Year, or to take the subject in both the Second and Third Years.]

Students of other Universities may be admitted, on the production of certificates, to a like standing in this University, after examination by the Faculty.

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

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.

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 shall be placed, who will thereupon be invited to place himself in communication with the Faculty on the subject. Failing such intimation from the parent or guardian, the Faculty will endeavour to establish such relations.

## § II. SCHOLARSHIPS AND EXAMINATIONS.

### EXHIBITIONS AND UNDERGRADUATE SCHOLARSHIPS.

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

#### SCHOLARSHIPS.

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.

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 —

(1) *Science Scholarships*.

Differential and Integral Calculus; Analytic Geometry; Plane and Spherical Trigonometry; Higher Algebra and Theory of Equations; Pure Mathematics, as in Ordinary Course; Botany; Chemistry; Logic.

[2] *Classical and Modern Language Scholarships*.

Greek; Latin; English Composition; English Language and Literature; French.

EXHIBITIONS.

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 Examination, 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, and English.

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

5. The First and Second Year Exhibition Examination 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. 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.

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

9. The annual income of the Scholarships or Exhibitions will be paid in four instalments, viz; in October, December, February and April:

10. The Examinations will be held at the beginning of every Session.

## EXHIBITIONS AND SCHOLARSHIPS TO BE OFFERED IN 1872.

There are at present sixteen Scholarships and Exhibitions.

THE JANE REDPATH EXHIBITION, founded by Mrs. Redpath, of Terrace Bank, Montreal. Value, \$100 yearly.

THE McDONALD SCHOLARSHIPS AND EXHIBITIONS, ten in number, established by W. C. McDonald, Esq., Montreal, Value, \$125 each, yearly.

THE GOVERNORS' SCHOLARSHIP, established by the Board of Governors. Value, \$120 yearly.

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

THE TAYLOR SCHOLARSHIP OR EXHIBITION, established by T. M. Taylor, Esq. Value, \$100 yearly.

The following will be offered at the Examinations commencing September 14th, 1871, under the regulations above stated;—

*First Year.*

Three EXHIBITIONS.—Two of \$125, one of \$100.—The Examinations will be in the following subjects:—

*Greek.*—Homer, Iliad, bk. I.; Xenophon, Anabasis, bk. I.; Lucian, Charon et Vita.

*Latin.*—Cicero, Pro Lege Manilia; Livy, bk. V., chapp. I.—XXV.; Horace, Odes, bk. I.

*Text Books.*—Hadley'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.

*Mathematics.*—Euclid, bks I., II., III., IV., Defs. of bk. VI. Algebra to end of Harmonical Progression [Colenso]. Arithmetic.

*English.*—English Grammar and Composition.—(Bain's Grammar, as far as Derivation.) Special exercises in Grammar and Composition.

*Second Year.*

THREE EXHIBITIONS.—Two of \$125 each and one of \$100. The Examinations will be in the following subjects:—

*Greek.*—Homer, Iliad, bk. VI., and Odyssey, bk. IX.; Xenophon, Hellenics, bk. I.; Arrian, bk. III.

*Latin.*—Virgil, Æneid, bk. VI.; Livy, bk. V., chapp. XXVI.—LV.; Horace, Odes, bk. III.; Cicero, Select Letters, I. to XL. (vol. I., Teubner Series.)

*Text Books.*—Dr. Wm. 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.*—Bain's Grammar ;—Latham's Hand-Book, Prosody ;—Special exercises in Grammar and Composition.

*Chemistry.*—The Metallic Elements, as in Roscoe's Elementary Chemistry.

*French.*—Molière, l'Avare, les Femmes savantes, le Misanthrope. De Fivas, Grammaire des Grammaires, (up to Syntax). Easy translation from English into French.

### Third Year.

#### FOUR SCHOLARSHIPS of \$125 yearly.

Two of these will be given on an Examination in Science, as follows :—

*Mathematics.*—Differential Calculus (Hall), Chaps. 1 to 8 inclusive, Chaps. 12. and 14. Integral Calculus (Hall), chaps. 1 to 6 inclusive. Analytic Geometry, (Salmon's Conic Sections). Hind's Plane and Spherical Trigonometry. Salmon's Modern Higher Algebra, (first six chapters). Todhunter's Theory of Equations. All the pure Mathematics of Ordinary Course with remainder of Drew's Conic Sections and of Colenso's Algebra [Part I.].

*Natural Science.*—Botany, as in Gray's Structural and Systematic Botany. Chemistry, as in Roscoe's Elements.

*Logic*, as in Thomson's Outlines of the Laws of Thought.

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

*Classics.*—Greek.—Euripides, Medea ; Demosthenes, the Olynthiacs ; Xenophon, Hellenics, bk. I. ; Herodotus, bk. VIII. ; Thucydides, bk. I.

*Latin.*—Horace, Satires, bk. I., and Epistles, bk. I. ; Virgil, Georgics, bk. I. Terence, Adelphi ; Tacitus, Annals, bk. I. ; Cicero, Select Letters. [Vol. I. Teubner Series.]

Greek and Latin Prose Composition.

*History.*—Text-Books.—Rawlinson's Manual of ancient History ; Smith's Greece ; Liddell's Rome.

*English Language and Literature.*—Spalding's English Literature ; Bacon's Essays ; Klipstein's Anglo-Saxon Grammar ; Trench's Study of Words ; Trench's English, Past and Present.

*English Composition.*—(High marks will be given for this subject, in order to encourage the practice of it, after the models of the best writers.)

*French.*—Racine, Britannicus, Andromaque, Iphigenie. De Fivas, Grammaire, des Grammaires. Translation from English into French.

#### 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 Examination 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; or 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 an 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.

An Exemption from fees may be given annually to any teacher holding the Model School or Academy Diploma of the McGill Normal School, recommended by the Principal and Professors of the School, and passing creditably the Matriculation Examination in Arts.

### § III. COURSE OF STUDY.

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

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

*Second Year.*—Classics; French or German; Logic; Pure Mathematics; Botany.

*Third Year.*—Classics; Rhetoric; Mental and Moral Philosophy; Mixed Mathematics; Experimental Physics; Zoology.

*Fourth Year.*—Classics; English Literature; Mental and Moral Philosophy; Mixed Mathematics; Experimental Physics; Mineralogy and Geology.

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:

The Lectures in Modern Languages, will be so arranged that Students competent and desirous to take in the same years the Lectures in French and in German, may do so.

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

The Faculty may permit any Student to take Spanish instead of French or German.

Undergraduates are arranged according to their standing, as Students of the First, Second, Third, and Fourth Years; and are required to attend all the Courses of Lectures appointed for their several years under the regulations as to attendance and conduct stated in § VII. The only exceptions are those in favour of Honour and Professional Students stated below.

#### HONOUR COURSES.

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 § X.]

1. *Classics.*
2. *Mathematics.*
3. *Logic and Mental and Moral Philosophy.*
4. *English Language, Literature and History.*
5. *Natural Science.*

Students taking B. A. Honours in any of the above Courses may omit two of the ordinary subjects in the Degree Examination, under the conditions stated in § IV. 4.

In Mathematics and Physics, Honours are also given in the First, Second, and Third Years, and in Classics in the Third Year.

### § IV. EXAMINATIONS.

#### COLLEGE EXAMINATIONS.

There are two Examinations in each year; one at Christmas, and the other at the end of the Session. In both of these, Students will be arranged according to their answering, as 1st Class, 2nd Class, and 3rd Class.

Students who fail in any subject in the Christmas Examinations, are required to pass a Supplemental Examination in that subject before admission to the Sessional Examinations.

Students who fail in one subject in the Sessional Examinations, are required to pass a Supplemental Examination in that subject. Should they fail in this, they will be required in the following Session to take 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.

Failure in two or more subjects at the 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 purposes of this regulation, Classics and Mathematics are each regarded as two subjects.

The time for the Supplemental Examination will be fixed by the Faculty; and such 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.

## 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 other Modern language, or Botany. Theological Students are allowed to take Hebrew instead of a Modern language. The subjects for the Examination of 1872, are as follows:—

*Classics.*—Greek.—Euripides.—Medea.

Latin.—Tacitus.—Germania and Agricola.

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.*—Thomson's outlines of the Laws of Thought.

*English.*—Spalding's History of English Literature.

An English Essay.

With one of the following:—

1. *Botany and Vegetable Physiology.*—Structural and Systematic Botany, as in Gray's Text-book, omitting the Description of the Orders.
2. *French.*—Molière, Misanthrope; Racine, Britannicus, Athalie, Phèdre, History of the French Literature of 17th and 18th centuries; Translation into French.
3. *German.*—Schmidt's German Guide. Adler's Reader. Translation into German.
4. *Hebrew.*—Grammar to the end of the Irregular Verbs. Translation from the Book of Genesis. Exercises,—Hebrew into English, and English into Hebrew.

3. For the Final Examination six subjects are appointed: namely, [1] Classics, [2] Mixed Mathematics, [3] Mental and Moral Philosophy, [4] Natural Science, [5] Experimental Physics, [6] One Modern Language and Literature (or Hebrew), with History.

Every Candidate must pass in four of these, namely, Classics and Mixed Mathematics, which are obligatory, and any two of the remaining subjects at his option. The subjects for 1872, are as follows:—

*Classics.*—Greek.—Aeschylus.—Prometheus Vincetus.

Aeschines.—Contra Ctesiphontem.

Latin.—Livy.—Book XXI.

Plantus.—Aulularia.

Latin Prose Composition.

General Paper in Grammar and History.

- 2. *Mathematics.*—Mechanics }  
Hydrostatics } As treated in Galbraith and Houghton's Manuals.  
Optics }  
Astronomy }

[Except in the case of Exemptions to Professional Students as stated in § V.]

With any two of the following.

- 3. *Mental and Moral Philosophy.*—Mansel's Metaphysics, Part 1—Psychology; Schwegler's History of Modern Philosophy; Stewart's Outlines, Part 2; Butler's Sermons, I, II, III, V., VI., VIII, IX., XI., XII; McIntosh's Dissertation.
- 4. *Natural Science.*—Geology and Mineralogy, as in Dana's Geology and Manual of Mineralogy.—The Zoology, Botany and Chemistry necessary to the study of the books above named; or as in Dawson's Handbook of Zoology; Gray's Structural and Systematic Botany, and Roseoe's Inorganic Chemistry.
- 5. *Experimental Physics.*—*Electricity.*—Statical and Dynamical; including Electro-Magnetism—Magneto-Electricity.—Thermo-Electricity.—Diamagnetism.—Electric Measurements.—Practical Applications to Telegraphy, &c.—*Magnetism*—*Acoustics.*—Theory of Undulations.—Production and Propagation of Sound.—Vibrations of Rods and Plates.—Vibrations of fluids.—Musical Sounds.
- 6. *History and English Literature.*—Smith's Student's Gibbon—Smith's Student's Hume—Marsh's Handbook of the English Language and Collier's History of English Literature.

Or instead of History and English, Candidates may take one of the following :—

- (a) *History and French.*—History as above. The course of French for the Fourth Year.—Bossuet, Discours sur l'Histoire Universelle; Boileau, Art Poétique. Translation into French, and French Composition.
- (b) *History and German.*—History as above. Schiller, Geschichte des 30 jährigen Krieges; Goethe, Iphigenie auf Tauris. General paper on Grammar, Translation into German, and German Prose Composition.
- (c) *History and Hebrew.*—(Theological Students only.) History as above. Hebrew Grammar; Translations from first four chapters of Isaiah; any three of the Psalms; the Chaldaic portions of the Scriptures; Targum of Onkelos on Genesis Chap. I., Modern Hebrew Poetry, Halevi or Gabirol.

*Exemptions for Candidates for B. A. Honours.*

4. Candidates for B. A. Honours who at the Third Year Sessional Examination, have been placed in the 1st or 2nd Class in any two of the six subjects appointed for the Final Examination, are entitled to the following privileges :—

[1] They may claim to have the Third Year Examination, in these two subjects, regarded as a B. A. Examination in the same. [This amounts to exemption at the ordinary B. A. Examination from two of the subjects required. § IV. 3.]

[2] They are required to attend the Ordinary Lectures of the Fourth Year in two subjects. These must be the subjects in which they are to pass the ordinary B. A. Examination, if Lectures are delivered in them; if not, the choice is left to the candidate.

No Student shall be entitled to the above privileges, unless his attendance on Lectures in the Fourth Year, and progress in the subject in which he is a Candidate for Honours, shall be satisfactory to the Professor, nor unless he shall have obtained a Certificate of creditable answering in the Honour Examinations.

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

Bachelors of Arts, of at least three years' standing, are entitled to the degree of Master of Arts, after such examination and exercises as may be prescribed by the Corporation. The exercise at present appointed is the preparation of a Thesis on any literary, scientific or professional subject to be selected by the candidate, and approved by the Faculty. The Thesis to be submitted to the Faculty and reported on to the Corporation.

## § V. SPECIAL PROVISIONS FOR PROFESSIONAL STUDENTS.

### I. LAW AND MEDICAL STUDENTS.

Students of the Third and Fourth Years matriculated in the Faculties of Law or Medicine of this University, are entitled to the following exemptions:—

In the Third Year they may omit the Lectures and Examinations in any one of the following subjects:—Zoology, Experimental Physics, or Rhetoric.

In the Lectures of the Fourth Year, they may omit Greek; and also Geology or Experimental Physics. At the Christmas Examinations of the Fourth Year, they may omit Astronomy and Optics.

In the Ordinary B. A. Examination, they may, in Classics, pass in Latin alone; and in Mixed Mathematics, in Mechanics and Hydrostatics alone.

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 exemptions are claimed.

## II. STUDENTS OF AFFILIATED THEOLOGICAL COLLEGES.

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.

The Faculty will make formal reports to the Governing body of the Theological College, to which any such Students may belong, 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.

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

In the Third and Fourth Years they are allowed exemptions from the following subjects:—

In the Third Year they may omit Astronomy and Optics, Experimental Physics, and Rhetoric.

In the Fourth Year they may omit Experimental Physics and English Literature.

Certificates of attendance on the full course of lectures in the Theological College, during the year for which the exemptions are claimed, must be produced by Students who avail themselves of these exemptions, before presenting themselves for Examination.

[No Student will be allowed in the same session both Professional and Honour exemptions.]

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

1. GOLD MEDALS will be awarded in the B. A. Honour Examinations to Students taking 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.

The *Chapman Gold Medal*, for the Classical Languages and Literature.

The *Prince of Wales Gold Medal*, for Logic and Mental and Moral Philosophy.

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

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

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

In the event of there being no candidates for any Medal, or of none of the candidates fulfilling the required conditions, the Medal will be withheld, and the proceeds of its endowment for the year may be devoted to prizes in the subjects for which the Medal was intended. For details, see announcements of the several subjects below.

2. HONOURS, of First or Second Rank, will be awarded to those Matriculated Students 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.

3. CERTIFICATES of High General Standing will be granted to those Matriculated Students, who are placed in the First Class in the aggregate of the studies proper to their year.

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

Students taking B. A. Honours will be placed at the Head of the Degree list: and Students who pass the Ordinary Degree Examination will be arranged as 1st Class, 2nd Class, or 3rd Class, according to their answering.

5. THE STEWART PRIZE of \$20, established by the Rev. Colin C. Stewart, M. A., is open to all Undergraduates, and also to Graduates of this or any other University studying Theology in any College affiliated to this University.

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.

6. The names of those who have taken Honours, Certificates, or Prizes, will be published, in the order of merit; and 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. 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 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 all their ordinary Meetings during the Session.

2. Professors shall note the attendance immediately on the commencement of their Lectures, and shall 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, shall be reported to the Dean of Faculty, who may reprimand the student, or refer to the Faculty, as he may think proper. He may also suspend from classes until the next meeting of the Faculty.

3. 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. [Under this rule attendance on at least two-thirds of the lectures will in all cases be required.]

4. While in the College, or going to and 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 building 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, disqualify from competing for prizes and honours, suspend from Classes, or report to the Corporation for expulsion.

7. 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 other penalty as the Faculty may see fit to inflict.

8. All cases of discipline involving the interests 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.

### § VIII. LIBRARY AND MUSEUM.

1. The books in the Library consist of two divisions:—1st, those which may be lent: 2nd, those designated by the general term "Books of Reference," which may not, under any circumstances, be removed from the Library.

2. Students may borrow books from the Library, on depositing the sum of four dollars with the Librarian, and signing a receipt for the books: such deposit to be returned to the Student on his returning the books uninjured.

3. Students may borrow not more than three volumes at one time, except on special recommendation of a Professor, and must return them within two weeks, on penalty of a fine of one shilling for the first week of detention, and two shillings and six-pence for each subsequent week.

4. A Student incurring a fine will be debarred the use of the Library until the fine has been paid.

5. Any volume or volumes lost or damaged by a student, shall be paid for by him, at such rates as the Faculty may direct, having reference to the value of the book and of the set to which it may belong.

6. Students may read in the Library at such hours as may be determined by the Faculty.

7. Professors and Lecturers may borrow any books required by them for their duties in the College, not exceeding ten volumes at any one time. Books so borrowed must be returned at or before the end of each Session.

8. Graduates in any of the Faculties, on making a deposit of four dollars, 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.

9. Members of the McGill College Book Club are, by a regulation of Corporation, entitled to the use of the Library on the same conditions as Graduates.

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, the Dean of Faculty or any of the Professors; and donors of books or money to the amount of Fifty Dollars, may at any time consult books on application to the Librarian.

11. The Library will be open from 10 a.m. to 4 p.m., daily, except Saturdays, during the Session, and in the months of May and June. On Saturday it will be open from 1 to 4 p.m.

12. No one is allowed to enter the alcoves or to take down books from the shelves, except the Governors, Members of Corporation, Professors, the Librarian and his assistants, 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 Librarian, who will thereupon procure him the book.

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

15. No conversation that can disturb Readers is permitted in the Library.

16. The times and conditions of study in the Museum will be arranged by the Professor of Natural History.

#### § IX. FEES AND RESIDENCE.

<i>Matriculation Fee</i> (to be paid in the Year of Entrance only),	\$1
<i>Sessional Fee</i>	\$20
<i>Library Fee</i>	\$2
<i>Gymnasium Fee</i>	\$2

*Undergraduates and Students in Special Courses* are required to pay all the above Fees.

*Partial Students* are required to pay the Matriculation, Library and Gymnasium Fees, and \$5 for each Class which they attend, or \$20 for all the courses.

*Occasional Students*, or those taking one or two courses of Lectures only, and not Matriculated, are required to pay \$5 per Session for each course.

The Matriculation, Library, and Gymnasium Fees are exigible from Students holding exemptions from Sessional Fees.

*Graduates in Arts* are allowed to attend without payment of fees all lectures except those noted as requiring a special fee.

The fees must be paid 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 and on payment of a fine of \$2.

<i>Graduation Fee</i> for the Degree of B. A.	\$5
Do. do. for the Degree of M.A.	\$10

The Graduation Fees must be paid before the Examinations.

Students in Arts are permitted to Board in the City; but arrangements have been made for receiving Students who may desire to reside as boarders in the College, and for placing such Students under the immediate superintendence of the Rev. Prof. Cornish, to whom application may be made.

## § X. COURSES OF LECTURES.

### I. ORDINARY COURSE.

#### 1.—CLASSICAL LITERATURE AND HISTORY.

Professor, Rev. G. CORNISH, M. A.

##### GREEK.

*First Year.*—HOMER.—ILLIAD, BOOK VI.

XENOPHON.—HELLENICS.—BOOK I.  
*Greek Prose Composition.*

*Second Year.*—ISOCRATES.—PANEGRYRICUS.

EURIPIDES.—MEDEA.  
*Greek Prose Composition.*

*Third Year.*—DEMOSTHENES.—THE OLYNTHIACS.

ÆSCHYLUS.—PROMETHEUS VINCTUS.

*Fourth Year.*—ÆSCHINES.—CONTRA CTESIPHONEM.

##### LATIN.

*First Year.*—VIRGIL.—ÆNEID, BOOK VI.

CICERO.—EPISTOLÆ SELECTÆ.  
*Latin Prose Composition.*

*Second Year.*—HORACE.—EPISTLES, BOOK I.

VALERIUS MAXIMUS.—BOOK III.  
*Latin Prose Composition.*

*Third Year.*—JUVENAL.—SATIRES VIII. & X.

PLAUTUS.—AULULARIA.  
*Latin Prose Composition.*

*Fourth Year.*—LIVY.—BOOK XXI.

*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.

#### 2.—ENGLISH LITERATURE.—(MOLSON PROFESSORSHIP).

Professor, VEN. ARCHDEACON LEACH, D. C. L., LL. D.

*First Year.*—English Language and Literature.—Anglo-Saxon Grammar.—Text-Books—Bain's English Grammar; Spalding's History of English Literature.—Klipstein's Anglo-Saxon Grammar.

*Third Year.*—Rhetoric.—Text-book—Whatly's Rhetoric, I, II, III.

*Fourth Year.*—English Literature.—Text-Book—Marsh's Hand-book.

## 3.—LOGIC, MENTAL AND MORAL PHILOSOPHY.

Professor, REV. J. CLARK MURRAY.

- Second Year.*—Elementary Psychology. Text-book—Stewart's Outlines Part I.  
Logic. Text-book—Thomson's Outlines of the Laws of Thought.
- Third Year.*—Moral Philosophy. Text-book—Stewart's Outlines, Part II; Butler's Sermons, I. II., III., V., VI., VIII., IX., XI., XII.  
History of Ethical Theories. Text-book—MacIntosh's Dissertations.
- Fourth Year.*—Psychology. Text-books—Mansel's Metaphysics, Part I; Murray's Outline of Hamilton's Philosophy.  
History of Modern Philosophy. Text-Book—Schwegler's History.

## 4.—FRENCH LANGUAGE AND LITERATURE.

Professor, P. J. DAREY, M. A., B. C. L.

- First Year.*—DE FIVAS, Grammaire des Grammaires,  
MOLIERE, le Mariage forcé, le Misanthrope.  
Dictation, Colloquial exercises.
- Second Year.*—*Ordinary Course* :—DE FIVAS, Grammaire des Grammaires.  
RACINE, Mitridate, Phèdre  
Translation into French : DR. JOHNSON, Rasselas.  
Lectures on the French Literature; Bonnefon, Ecrivains célèbres de la France.  
Dictation, Parsing, Etymology. Colloquial exercises  
*Advanced Course* :—PORTEVIN, Grammaire élémentaire.  
RACINE, Britannicus, Athalie, les Plaideurs.  
Translation into French : GOLDSMITH, She stoops to conquer.  
Lectures on the French Literature; DEMOZOT, Littérature française.  
Dictation, Parsing, Etymology.
- Third Year.*—PORTEVIN, Grammaire élémentaire.  
CORNEILLE, Le Cid, Cinna, Horace.  
Translation into French : GOLDSMITH, Vicar of Wakefield.  
French Composition, Dictation.  
History of the French Literature of the 19th century.
- Fourth Year.*—BOILEAU, Art Poétique.  
Lectures on the French Literature; GENOUZET, Littérature française.  
Translation in French.  
French Composition.

The Lectures in the Advanced Class in the 2nd Year, and in the 3rd and 4th Years, are given in French.

## 5. GERMAN LANGUAGE AND LITERATURE.

Professor, C. F. A. MARGRAF, M. A.

*First and Second Years.*—*Ordinary Course* :—This Course comprises Grammar, Reading and Analysis, translations oral and written, and Dictation. Special regard is had to the affinities of the German with the English. Text Book; Schmidt's German Guide (1st and 2nd Course); Adler's Progressive German Reader.

*Third and Fourth Years.*—*Ordinary Course* :—The Students following this Course have the same Studies and exercises as are prescribed for the Advanced Course of the Second and Third Years.

*First Year.--Advanced Course* :--Text Books;--Schmidt's German Guide (1st and 2nd Course); Adler's Progressive German Reader.  
*Second and Third Years.--Advanced Course* :--Text Books :--Schmidt's German Guide (3rd Course); Peissner's German Grammar (Parts III. & IV.); Adler's Handbook of German Literature. The exercises comprise select readings in German Prose and Poetry; translations from English writers, and Composition.

During this Course a series of Lectures will be delivered on the History of German Literature, from the earliest periods down to the classical age of Goethe and Schiller; closing with a brief notice of the state of German Literature at the present day.

#### 6. HEBREW AND ORIENTAL LITERATURE.

Professor, REV. A. DE SOLA, LL.D.

*Elementary Course.--For Students of the First and Second Years.*--Grammar :--Text-Book ;--Gesenius' Hebrew Grammar, with exercises in Orthography and Etymology. Reading ;--Translation and Grammatical Analysis of Historical Portions of the Scriptures--Syntax-- Mishlé Shualim--Fables, &c.

*Advanced Course.--(For Students of the Second, Third and Fourth Years.)*--Introduction to the study of Hebrew Poetry--its spirit and characteristics. Lowth and Sarchi as Text Books. Translation from the Psalms, Lamentations and Isaiah. Ancient compared with Modern Hebrew Poetry; the productions of Halevi, Gabirol, &c. Grammar, Exercises, &c., continued.

*The Chaldee Language* :--Grammar, *Mebo Halashon Aramith* of J. Jeitteles. The Chaldee portions of Scripture. Targum of Onkelos and T. Yerushalmi.

*The Syriac Language* :--Grammar, (Uhlemann's) and Translation. 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.

#### 7. SPANISH LANGUAGE AND LITERATURE.

REV. PROFESSOR DE SOLA.

(Extra Fee for this Class, \$5.00).

The study of the Spanish Language on this continent, being generally pursued with special reference to commercial purposes, it will be sought to impart in this course, a practical knowledge of the Castilian, the richest and most harmonious of the Peninsular languages--as well as an acquaintance with its Literature.

Ollendor's Spanish Grammar by Velazquez and Simmon's, and the Reader of Velazquez, are the Text-Books employed in the Junior Class, who will also be exercised in composition by both written and oral exercises. In the Senior Class, Fernandez' Exercises, continuation of Grammar and Composition, Cervantes' Don Quixote, Quintana Vida del Cid, and Marians' Historia will be the subjects of study. Besides a special comparison with the Portuguese Language, a general notice, literary and historical, of the Basque and other dialects, will be given.

#### 8. MATHEMATICS AND NATURAL PHILOSOPHY

(PETER REDPATH PROFESSORSHIP OF NATURAL PHILOSOPHY).

Professor, ALEXANDER JOHNSON, LL.D.

**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.

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Text-Book.

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#### II. ZOOLOGY.

(1) *General*

Colense's Algebra, part I to end of Quadratic Equations.--Galbraith and Haughton's Plane Trigonometry to end of Solution of Plane Triangles.--Nature and use of Logarithms.

**MATHEMATICS.--(Second Year)**--Arithmetic, Euclid, Algebra, and Trigonometry as before.--Remainder of Galbraith and Haughton's Plane Trigonometry.--Conic Sections treated Geometrically. (The Parabola as in Drew's Conic Sections, the definitions of the Ellipse and Hyperbola, with the fundamental properties of their tangents, Euclid, Book XI, Props. 1 to 21; Book XII, Props. 1, 2.

The course for the Intermediate University Examination consists of the Mathematics for the first two years, except Conic Sections and Solid Geometry.

**MATHEMATICAL PHYSICS AND ASTRONOMY.--(Third Year)**--Galbraith and Haughton's Mechanics (omitting chap. 5 of Statics,) Hydrostatics, Optics and Astronomy.

At the Ordinary Examinations, answers to questions in Mechanics, on the Chapters on Friction, Collision of Bodies and Projectiles, will be taken into account only in determining the relative positions of those whose other answers shall entitle them to be placed in the First Class.

**EXPERIMENTAL PHYSICS.--(Third and Fourth Years)**--1.--Light.--Theories.--Reflection.--Refraction.--Dispersion.--Interference and Diffraction.--Double Refraction.--Polarisation. 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 Applications to Telegraph, &c. 4.--Magnetism. 5.--Acoustics.--Theory of Undulations.--Production and Propagation of Sound.--Vibrations of Rods and Plates.--Vibrations of Fluids.--Musical Sounds. Text-Books--Ganot's Treatise translated by Atkinson, and Tyndal on Heat. This Course extends over two years.

The Subjects for the Session 1872-73 are Light and Electricity, Magnetism, and Acoustics.

The Lectures in Mathematical and Experimental Physics will be illustrated by Apparatus.

## 9. GEOLOGY AND NATURAL HISTORY.

### (LOGAN PROFESSORSHIP OF GEOLOGY.)

Professor, J. W. DAWSON, LL.D., F.R.S., F.G.S.

#### I. BOTANY.--(Second Year.)

(1) *Histology, Morphology and Physiology of the Plant*, or description of its elementary tissues and organs, and investigation of its functions of nutrition and reproduction.

(2) *Systematic and Descriptive Botany*, with special notices of the Flora of Canada, and instructions for collecting and determining Plants, and for the use of the Microscope.

(3) *Geographical Botany.*

*Text-Book*--Gray's Structural and Systematic Botany.

A Prize of \$20, will be given for the best collection of Plants, and the greatest proficiency in their determination. The prize collections or duplicates of them to remain in the College Museum. Candidates must be Students in Botany of the previous session.\*

#### II. ZOOLOGY AND COMPARATIVE PHYSIOLOGY. (Third Year.)

1) *General Zoology*, including the Elements of the Histology, and Comparative

Anatomy and Physiology of Animals, with the Principles of Classification and the division of the Animal Kingdom into Provinces or Sub kingdoms.

(2) *Descriptive Zoology*, including the character of the Classes and Orders of the Animal Kingdom, illustrated by typical examples, and as far as possible by Canadian species.

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

A Prize of about \$10 will be given for the best named collection of Canadian Fossils: conditions as stated above under Botany.\*

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

(1) *Mineralogy*--Chemical and Physical characters of Minerals including Crystallography, the methods of determining species, and Descriptive Mineralogy; with special reference to those species most important to Geology, or useful in the Arts.

(2) *Physical Geology*--Composition of Rocks and their structure on the small scale. Classification of Rocks. Arrangement of Rocks on the large scale; stratification, elevation and disturbances, denudation.

(3) *Chronological Geology and Palaeontology*--Data for determining the relative ages of formations. Classification according to age. Fauna and Flora of the successive periods. Geology of British America.

*Text-Books*--Dana's Manuals of Mineralogy and Geology, with Lyell's Elements.

The Lectures in Natural History will be accompanied with demonstrations in the Museum. Students in Natural History are also entitled to tickets of admission to the Museum of the Natural History Society of Montreal.

\* From the Surplus income of the Logan Medal Fund.

### 10. CHEMISTRY.

Lecturer, B. I. HARRINGTON, B. A., Ph. D.

*First Year*--A course of Elementary Chemistry preparatory to the course in Natural Science and Practical Science.

*Text Book*--Roscoe's Lessons in Elementary Chemistry.

### 11. METEOROLOGY.

Professor, CHARLES SMALLWOOD, M.D., LL.D.

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

### 12. ELOCUTION.

MR. JOHN ANDREW, Instructor.

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

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## II. HONOUR COURSES.

## 1. CLASSICS.

B. A. HONOURS, BEING THE HONOUR COURSE FOR STUDENTS OF THE THIRD AND FOURTH YEARS.

Candidates for B. A. Honours in Classics will be examined in the following subjects:—

## I. GREEK.

## I.—Greek Philosophy.

Plato.—Republic, Books I. & II.

Aristotle.—Nicomachean Ethics, Books I. & II.

## II.—Greek History.

Herodotus.—Books VIII. & IX.

Thucydides.—Book I.

Xenophon.—Hellenics, Books I. & II.

## III.—Greek Poetry.

a. Epic.—Homer.—Odyssey, Books I. II. & III.

Hesiod.—Works and Days.

b. Dramatic.—Æschylus.—Prometheus Vincetus.

Seven against Thebes.

Sophocles.—Antigone.

Euripides.—Hippolytus.

Aristophanes.—The Frogs.

c. Lyric and Bucolic.—Pindar.—Olympic Odes.

Theocritus.—Idyls I. to VI.

## IV.—Greek Oratory.

Demosthenes.—De Corona.

Æschines.—Contra Ctesiphontem.

## II. LATIN.

## I.—Roman History.

Livy.—Books XXI., XXII. & XXIII.

Tacitus.—Annals, Books I. & II.

Histories, Book I.

## II.—Roman Poetry.

a. Epic.—Virgil.—Æneid, Books I. to IV.

b. Dramatic.—Plautus.—Aulularia.

Terence.—Adelphi.

c. Satiric.—Horace.—Satires, Book I.

Juvenal.—Sat. VIII. & X.

Persius.—Sat. V. & VI.

## III.—Roman Oratory and Philosophy.

Cicero.—De Imperio Cn. Pompeii.

De Inventione.

De Officiis.

## III. HISTORY OF GREECE AND ROME.

## Text-Books:—

1. Grote's History of Greece, Vols. III. to VIII.

2. Arnold's History of Rome.

3. Mommsen's History of Rome.

## 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 four days, in the morning from 9 to 12, and the afternoon from 2 to 5.

## 2. LOGIC, MORAL PHILOSOPHY, AND MENTAL PHILOSOPHY.

### B. A. HONOUR COURSE,

*Third Year.*—History of Ancient Ethical Systems.

*Fourth Year.*—Two courses of Lectures will be given, one in Logic the other in Metaphysics. Subject of the latter.—The Philosophies of Kant and Hamilton.

Candidates for B. A. Honours in the department of Philosophy will be examined on the following works, in addition to the subjects treated in the Lectures.

In Logic.—On the *Novum Organum* of Bacon.

Mill's Logic.

Mansel's *Prolegomena Logica*.

Trendelenburg's *Elements*.

In Metaphysics.—On Ancient Philosophy, as in Schwegler's *History*.

Plato's *Theætetus* [English].

*History of Modern Philosophy*.—Schwegler.

Locke's *Essay on the Human Understanding*, Books I., II., IV.

Berkeley's *principles of Human Knowledge*.

Hamilton's *Discussions I. and II. and Appendix to Discussions, I* [A]

Hamilton's *Notes to Reid, A., B., C., D., and D\**

Mill's *Examination of Sir W. Hamilton's Philosophy*.

In Moral Philosophy.—Grant's *Aristotle*, Vol I pp. 1—336.

Stewart's *Philosophy of the Active and Moral Powers*, Books I., II., III.

Kant's *Metaphysics of Ethics*.

## 3. ENGLISH LANGUAGE, LITERATURE AND HISTORY.

### B. A. HONOUR COURSE.

#### I. Language.

Klipstein's *Anglo-Saxon Grammar*.

Thorpe's *Analecta Anglo-Saxonica*.

Marsh's *Lectures on the English Language*, by Smith.

Craik's *Outlines of the History of the English Language*.

Tyrwhitt's *Essay on the Language and Versification of Chaucer*.

Trench's *Study of Words*.

Trench's *English Past and Present*.

Trench's *Glossary*.

#### II. Literature.

Required from the Student a general acquaintance with the works of the English Classical authors, and a more minute study of the following portions of

English Literature.

Shakespear's *Plays*.

Chaucer.—*Canterbury Tales*; The Prologue and the Knight's Tale; the Florentine and the Leaf; the House of Fame.

Spenser—*Fairie Queen*; Books I., II.

Marlowe—*Faustus* and *Jew of Malta*.

Milton—*Paradise Lost*; *Comus*; *Lycidas*; *L'Allegro*.

Dryden—*Absalom* and *Achitophel*; *Annus Mirabilis*; *Dedications to*

Pope—*Dunciad*; *Essay on Criticism*; *Rape of the Lock*; *Eloisa* and *Abelard*

Prefaces to his *Translations of Homer's Iliad and Odyssey*.

Bacon—*Essays*.

Required to be read in connection with this part of the Course.—

Craik's History of English Literature.

Hallam's Literary History of Europe—the parts relating to English Literature.

Johnson's Lives of Milton, Dryden, Addison. Pope.

Dunlop's History of Fiction.

### III. History.

Required a general acquaintance with the History of England to the year 1714, and a more minute knowledge of the Anglo-Saxon period, of the 13th and 14th centuries, and of the period from the accession of Elizabeth to that of George I. The following books are recommended:—

Hume's History of England.

Gdwin's Life and Times of Chaucer.

Fauli's Life of Alfred the Great.

Foude's History of England.

Macaulay's History of England.

Carendon's History of the Rebellion.

Hallam's Constitutional History of England.

## 4. MATHEMATICS AND PHYSICS.

### HONOUR COURSE.

**MATHEMATICS.**—(*First Year.*) McDowell's Exercises on Modern Geometry, &c.—Wood's Algebra.—Hind's Plane Trigonometry.

**MATHEMATICS.**—(*Second Year.*)—Todhunter's Theory of Equations.—Hind's Spherical Trigonometry.—Salmon's Analytic Geometry, first thirteen chapters.—Hall's Calculus—Chapters 1, 2, 3, 4, 6, 7, of Diff. Cal.; Chapters 1, 2, 3, 4, 5, of Integ. Cal.

**MATHEMATICAL PHYSICS.**—(*Third Year.*)—Todhunter's Statics, (omitting Chap. 18).—Tait & Steele, Dynamics of a particle.—Besant's Hydrostatics, Chaps. 1, 2, 3, 5.—Walton Mechanical and Hydrostatical Problems.—Parkinson's Optics.—Main's Practical and Spherical Astronomy (selected course).

### B. A. HONOUR COURSE.

**PURE MATHEMATICS.**—Hind's Plane and Spherical Trigonometry.—Todhunter's Theory of Equations.—Hall's Differential and Integral Calculus.—Boole's Differential Equations (selected course).—Gregory's Examples of the Calculus (omitting the last two Chapters).—Salmon's Conic Sections.—Salmon's Geometry of Three Dimensions (selected course).

**MECHANICS.**—Todhunter's Statics.—Tait & Steele, Dynamics of a Particle.—Routh's Dynamics of a Rigid Body.—Besant's Hydrostatics and Hydrodynamics.—Walton's Mechanical Examples.—Walton's Examples in Hydrostatics.

**ASTRONOMY.**—Main's Astronomy.—Sir John Herschel's Outlines of Astronomy (Part II. of the Lunar and Planetary Perturbations).—Godfray's Lunar Theory.

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

Litt.—Lloyd's Wave Theory of Light.

EAT.

ELECTRICITY.

MAGNETISM.

ACOUSTICS.

} As in Ordinary Course.

The examination for B. A. Honours will continue for *four* days.

The examinations for honours in the other years will continue for *two* days.

Engineering Students may be candidates for Honours.

### COURSE FOR THE ANNE MOLSON MATHEMATICAL PRIZE.

The Mathematical Physics of the Honour Course in the 3rd year, together with the Differential and Integral Calculus (Hall) and Salmon's Geometry of Three Dimensions (Theory of Surfaces of the second order pp 1-10.)

The value of the prize is about \$64. It is open to competition to students commencing the Fourth Year in Arts, in September 1872.

### 5. NATURAL HISTORY AND GEOLOGY.

#### B. A. HONOUR COURSE.

Students entering for Honours must have passed creditably the examinations in Elementary Chemistry, Zoology, Botany and Experimental Physics; and should know the elements of Drawing. Students entering for practical purposes will be required only to satisfy the Professor of their fitness for the studies of the class. Candidates for Honours will be expected to attain such proficiency as to be able to undertake original investigations, in some at least of the subjects of study.

The Lectures will include:--

1. An advanced course in General Geology and Paleontology, in connection with which the Students will be required to read Dana's Geology and Lyell's Student's Elements.
  2. Methods of observation and of conducting Geological Surveys. Applications of the science to Mining, Engineering and Agriculture.
  3. Canadian Geology, in connection with which the Students will read Logan's Report of the Geological Survey of Canada, and Dawson's Acadian Geology.
  4. Practical Paleontology and determination of species; with books of reference from the College Library, and specimens from the Museum.
  5. Excursions for Field Work will be undertaken when practicable.
- In addition to the above, the Student is required to pass an examination in any one of the following subjects:--

1. The Systematic part of Botany, as in Gray's "Text Book" and "Manual," and specimens illustrative of these books from the Museum.
2. Huxley's Elements of Comparative Anatomy and Dawson's Handbook of Zoology, and specimens illustrative of the latter.
3. Dana's Mineralogy, and specimens illustrative thereof from the Museum.

### § XI. LIBRARY, MUSEUM, APPARATUS AND OBSERVATORY.

#### I. THE LIBRARY.

The Library of the Faculty of Arts contains more than 9,000 volumes of standard works, selected with especial reference to the wants of Professors and Student and open to their use during the Session.

The most important additions recently made to the Library are the "Peterson's Path Historical Collection" consisting of 896 volumes of the more rare and valuable works relating to English History; a collection of 222 volumes in Classical Literature presented by Mr. C. Alexander, and the Library of Dr. John Robson of Warrington, England, presented by him, consisting of 2597 volumes, and 327 Pamphlets.

(The above statement does not include the Library of the Medical Faculty, which contains upwards of 4,000 volumes.)

#### II. THE MUSEUM OF NATURAL HISTORY.

1. Zoology. In this department the Museum contains a general collection of specimens, illustrating the Orders and characteristic Genera of the Animal Kingdom,

the whole arranged and labelled in such a manner as to correspond with the College course on the subject. There are also the following special collections:—

The Carpenter Collection of Shells, being the general collection of Dr. Philip P. Carpenter, presented by him to the University, and in process of arrangement in a separate room.

The Carpenter Collection of Mazatlan Shells.

The Couper Collection of 2,400 Canadian Insects.

Collections of Canadian Fresh-water and Land Shells.

2. BOTANY. The Herbarium consists of the Collection of the late Dr. Holmes, of Montreal, presented by him to the University; and with the additions recently made to it, affording a nearly complete representation of the Flora of Canada. There are also collections of European, Arctic and Alpine Plants, and of specimens of Woods, Fungi, &c.

3. GEOLOGY AND MINERALOGY.—The general collection consists of a series of the characteristic Fossils of all the great geological periods, with additional suites of specimens, illustrating in greater detail the formations represented in Canada. There is also an extensive collection of Rock specimens, and collections are being formed representing the principal Mineral Regions of Canada.

The Mineralogical Cabinet consists principally of the "Holmes Collection," containing about 2,000 specimens of Canadian and Foreign Minerals. A large portion of these are displayed in glass cases for the use of students, under the arrangement of Dana's Manual of Mineralogy.

All of the above Collections are used to illustrate the lectures, or are open to the inspection of students, who are also entitled to access to the large and valuable collections of the Natural History Society of Montreal.

### III. PHILOSOPHICAL APPARATUS.

The value of the Apparatus is above \$4000. Of this more than two thousand dollars' worth has been lately added by means of a personal subscription amongst some of the Governors. The collection is now very valuable for purposes of illustration in the departments of Mathematical and Experimental Physics. Besides instruments to illustrate Mechanics, [Statics and Dynamics] and Optical instruments, such as Microscopes, a Telescope, Sextant, &c., there is a good collection for Hydrostatics and Pneumatics, another for Heat, and a very full collection for Magnetism and Electricity [Statical and Dynamical] including Electro-magnetism, Magneto-electricity, Diamagnetism, Thermo-electricity, the Measurement of Electric Resistance, &c. The collection for Light, besides apparatus illustrative of the common phenomena of optics, includes the best instruments for exhibiting on a large scale with the aid of the electric light the phenomena of Interference, Diffraction, Polarization and Double Refraction. There is a good collection for Sound.

### IV. CHEMICAL LABORATORY.

The Laboratory is furnished with the Apparatus, Specimens and Chemical Reagents necessary to illustrate the class-lectures in Chemistry; and is also fitted up with all the necessary appliances for the work of a class in Practical Chemistry and Assaying.

#### V. METEOROLOGICAL AND MAGNETIC OBSERVATORY.

The Basement of the Building is devoted entirely to the observations on Terrestrial Magnetism.

The Ground Story and Leads are the portion of the Building devoted to Meteorological observations.

The Transit tower is for the purpose of giving time to the City, and to the Ships in the Harbour, and is connected by Electric Telegraph with a "Time Ball" at the wharf. Connection by Electric Telegraph having also been established between the Observatory and the Government Buildings at Ottawa, mean time is transmitted daily at noon, and made known there by the firing of a Cannon.

The principal Meteorological Instruments are:--Thermometers for determining the Temperature of the Air; Barometers for ascertaining the atmospheric pressure; Psychrometers for the purpose of determining the Elastic force of Aqueous Vapour, the relative Humidity and Dew Point; Instruments for recording the Solar and Terrestrial Radiation; Rain and Snow Gauges for indicating the amount and duration of Rain and Snow; Ozonometer for recording the amount of Ozone.

The direction and velocity of the wind are registered by a modification of Dr. Robinson's Anemometer.

Observations on Storms, Auroras, Haloes and other Natural Phenomena which mark the variation of Climate are duly recorded.

The Instruments in the Basement of the Building are for determining the Magnetic Elements; and consist of, [1] a Declinometer for measuring the Declination or Variation of the Magnet; [2] a unifilar Magnetometer consisting of an apparatus for deflection and vibration, for ascertaining the horizontal Magnetic force; [3] an Inclinator or Dip-needle [No. 30 used in the Magnetic Survey in Great Britain] for showing the Inclination or Dip. From these observations are reduced the absolute values of the Magnetic Elements.

The Observatory is under the supervision of Professor Smallwood, M. D., LL. D., D. C. L.

# Lectures in the Undergraduate Course in the Faculty of Arts.

## SESSION 1872-73.

		FIRST YEAR.			
		TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9	Classes.	† Mathematics. (a)	* Fr. nch. Classics.	† Mathematics. (a)	Mathematics.
10	Mathematics	• French	English.	• French	Classics.
11	English	• German, • Hebrew	Mathematics.	• German, • Hebrew	English.
12	Elementary Chemistry.				Elementary Chemistry.
1					
SECOND YEAR.					
9	† Mathematics.	Mathematics. (b)	Logic	Mathematics. (b)	• German.
10	Classics.	• French.	† Mathematics.	• French.	Classics.
11	Mathematics.	• Hebrew.	• German.	Botany.	Logic.
12	Logic.			• Hebrew	
1	• German.				
THIRD YEAR.					
9	French (c)	Classics. † German	† Classics.	Classics. † German.	French (c)
10	Moral Philosophy.	† Math. Phys. † Men. Phil	† Mathematical Physics.	† Mathematical Physics.	Moral Philosophy.
11	Mathematics	Zooology.	German (c)	Zooology.	Mathematical Physics.
12	Classics. † French.	(5) Experimental Physics	Rhetoric.	(5) Experimental Physics	† Classics. † French.
1		Hebrew (c)		Hebrew (c)	German (c)
FOURTH YEAR.					
9	† Geology.	French (c)	Classics. † Math. Phys.	French (c)	Geology.
10	Geology. † German	German (c)	† English Literature.	German (c)	† Math. Phys. † Geology.
11	† Mental Philosophy.	Mental Philosophy.	Classics. † French.	(5) Experimental Physics	† Mental Philosophy.
12	German (c)	Hebrew (c)	Geology.	Hebrew (c)	† Classics. † German
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(a) During Second Term. (c) Optional.  
 (b) The Student may take at his option French or German in the first two years, or if a Theological Student Hebrew.  
 (c) First For Candidates for Honour, § From November ist, † For Students in Department of Science only.  
 Library open every day except Saturday 10 to 4, Saturday 1 to 4. The Museum will be open as arranged by the Professor of Natural History.

## Department of Practical & Applied Science.

(FACULTY OF ARTS.)

*Geology and Palaeontology.*—J. W. DAWSON, LL.D., F. R. S., Professor.

*English Language.*—VEN. ARCHDEACON LEACH, LL.D., Professor.

*Meteorology.*—CHARLES SMALLWOOD, M.D., L.L.D., Professor.

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

*Mathematics and Natural Philosophy.*—ALEXANDER JOHNSON, LL.D., Professor.

*French.*—P. J. DAREY, M. A., Professor.

*Civil Engineering and Applied Mechanics.*—G. F. ARMSTRONG, M.A., Q.E., F.G.S., Prof.

*Practical Chemistry.*—GILBERT P. GIRDWOOD, M.D., Professor.

*Assaying and Mining.*—BERNARD L. HARRINGTON, B.A., Ph. D., Lecturer.

The courses of study in this Department are designed to afford a complete preliminary training of a Technical as well as a Theoretical nature, for 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.

Three distinct courses of study are provided in this Department; each of which extends over three, or under certain conditions (§1) two years, and is specially adapted to the prospective pursuits of the student.

- (1) Civil and Mechanical Engineering.
- (2) Assaying and Mining.
- (3) Practical Chemistry.

The Degrees conferred by the University upon such Undergraduates of this Department as shall fulfil the conditions and pass the examinations as are hereinafter stated (§1V) will be, in the first instance, "Bachelor of Applied Science," mention being made in the Diploma of the particular Course of study pursued; and subsequently the degrees of "Master of Engineering" on those who have pursued Course 1st, and of "Master of applied Science" on those who have pursued either of the remaining Courses (2 and 3).

Undergraduates in Arts proceeding to the B. A. Degree, who shall have passed the Intermediate examination for that Degree, may obtain such exemptions from Lectures in Arts as will enable them to pursue one of the courses in Applied Science simultaneously with the Course in Arts.

## § I. MATRICULATION AND ADMISSION.

Candidates for Matriculation must present themselves for examination on the 16th September 1872. They may, however, be admitted at a later period of the Session upon special application to the Dean.

The subjects for Examination will be :

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

*English.*—Writing from Dictation.

Candidates may enter in the Second or Middle year, and so reduce the course necessary for the degree in Applied Science, from three to two years, if competent to pass a satisfactory examination in the following subjects; in addition to which those who intend to pursue Course 1st must satisfy the Professor of Engineering that they possess a reasonable knowledge of the elements of Surveying and Levelling and of Linear Drawing.

*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. 1, 2, 3, 4, 6 to beginning of numerical solution of plane triangles.

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

*English.*—Writing from dictation.

*Chemistry.*—Inorganic as in Roscoe's Elements, (or the Student must take this subject in the Middle Year.)

### OCCASIONAL STUDENTS.

Occasional Students may be admitted to the Technical Classes upon payment of special fees. (§VIII).

## § II. EXHIBITION AND PRIZES.

### I. THE SCOTT EXHIBITION.

Founded by the Caledonian Society of Montreal in commemoration of the centenary of Sir Walter Scott.

This Exhibition is open to Students who have passed the examinations of the middle year. The subjects of Examination are the following :—

*Mathematics.*—Differential Calculus (Hall), Chaps. 1 to 8 inclusive, Chaps. 12 and 14. Integral Calculus (Hall), chaps. 1 to 6 inclusive. Analytic Geometry, (Salmon's Conic Sections). Hind's Plane and Spherical Trigonometry. Salmon's Modern Higher Algebra, (first six chapters). Todhunter's Theory of Equations. All the pure Mathematics of ordinary course in Arts with remainder of Drew's Conic Sections and of Colenso's Algebra, [Part I.]

*Engineering and Surveying.*—The Course of the two preceding years, with a Report on some Engineering work.

*English.*—English Grammar—Bain's.

English Composition,

History of England—Smith's Student's Hume; Hallam's Middle Ages

Chaps. VIII, IX.

English Literature,—Collier; Johnson's lives of the Poets.

*Zoology.*—Dawson's Hand-Book, Invertebrates and more especially fossil animals.

The first examination will be held on Sept. 16th 1872 and following days.

2. AN EXEMPTION FROM GENERAL AND SPECIAL SESSIONAL FEES.

This Exemption carries with it the duty of assisting the Professor in the field, in such operations in Surveying, Levelling and Setting-out as shall be undertaken by the Engineering Classes.

Candidates must be of at least the second years' standing, and have passed an examination in the subjects of the Sessional Examination of the First Year with credit.

The Professor will then select from among such Candidates by means of a *vivâ voce* and written examination, the one who shall display the most intimate acquaintance with the practical operations of Surveying and Levelling.

The election to this Exemption will be for one year only: but a previous holding will not disqualify for re-election.

The next election will be made in November 1872.

PRIZES will be awarded after each Sessional Examination, to such Matriculated Students as have passed the Examinations in all the subjects of one of the regular courses of study, and have taken the first rank in the Examinations in one of the subjects.

### § III. COURSES OF STUDY.

The following are the courses of study arranged for the present Session, 1872-1873:—

#### I. COURSE OF CIVIL ENGINEERING AND SURVEYING.

*Junior Year.*—Ordinary Mathematics of the First Year in Arts, (with Honour Mathematics as far as practicable).

Chemistry.

English Language and Literature.

French or German.

Linear Drawing.

Surveying and Mensuration, with use of Instruments.

*Middle Year.*—Ordinary Mathematics and Mathematical Physics of the Second and Third Years in Arts, (with Honour Mathematics of the Second year as far as practicable).

Experimental Physics.

Zoology.  
 French or German.  
 Drawing—Orthographic and Isometrical Projection.  
 Levelling.  
 Art of Construction.

*Senior Year.*—Mathematical Physics (Honour Course of Third year in Arts, optional)  
 Experimental Physics.  
 Geology and Mineralogy.  
 French or German.  
 Applied Mechanics and Principles of Mechanism.  
 Drawing,—Constructive and Mechanical.  
 Construction.  
 Designing and Estimates.

## 2. COURSE OF MINING ENGINEERING AND ASSAYING.

*Junior Year.*—Same as Junior Year of Civil Engineering Course.

*Middle Year.*—Ordinary Mathematics and Mathematical Physics of 2nd and 3rd Years  
 in Arts.

Experimental Physics,  
 Zoology.  
 Geology and Mineralogy.  
 French or German  
 Drawing,—Orthographic and Isometric Projection.  
 Levelling,  
 Construction (in part).  
 Use of Blowpipe.  
 Assaying.

*Senior Year.*—Geology (Honour Course.)  
 Experimental Physics.  
 French or German.  
 Drawing of Geological Maps and Sections, and plans of Mines.  
 Mining and Mineral Surveying.  
 Metallurgy.

### WORKSHOP.

Steps are being taken for the erection of a Workshop in connection with the College, in which practical instruction in the various Mechanical operations will be given to Undergraduates who are pursuing either of the foregoing courses.

## 3. COURSE OF PRACTICAL CHEMISTRY AND ASSAYING.

*Junior Year.*—Same as above (with Botany.)

*Middle Year.*—Ordinary Mathematics of Second Year in Arts.

Experimental Physics.  
 Botany, (unless taken in the Junior Year).  
 Zoology.  
 French or German.  
 Practical Chemistry.

Senior Year.—Mathematical Physics.  
 Experimental Physics.  
 Geology and Mineralogy.  
 French or German.  
 Metallurgy.  
 Assaying.

## OBSERVATORY.

Undergraduates taking any of the above courses may receive instruction in Meteorological and Magnetical observations from Dr. Smallwood, in the College Observatory.

## § IV. EXAMINATIONS.

## COLLEGE EXAMINATIONS.

There will be a sessional examination at the end of each year, and also a Christmas examination, in the same manner as provided for Undergraduates in Arts.

## UNIVERSITY EXAMINATIONS.

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

Candidates must pass the Sessional Examinations of the Junior and Middle year, or, if admitted in the Middle year, of that year only. They must also pass a final examination at the end of the Third Year, in all the subjects of that year, in addition to a special examination in Mathematics, in case of those who graduate in the course of Civil and Mechanical Engineering.

Graduates in Civil Engineering of this University may obtain this Degree, and a Diploma in exchange for that which they at present hold, upon application to the Corporation through the Registrar, and upon payment of a fee of \$3.

## II. FOR DEGREE OF MASTER OF ENGINEERING.

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

They must pass with credit an examination which will extend 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 during the three preceding years, been engaged.

The examination will be held once in each year in the second week of the month of December, and will be partly written and partly *viva voce*.

Notice of the intention of a Candidate to offer himself at any examination for this Degree must be sent in, together with the necessary Certificates and Fees, not less than two calendar months before such Examination is to be held.

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

Candidates must be Bachelors of Applied Science of at least three year's standing, must present certificates of having been employed during that time under competent guidance in some branch of Scientific Work, and must pass with credit an examination in 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.

### IV. FOR THE DEGREE OF B. A. WITH THAT OF BACHELOR OF APPLIED SCIENCE.

Undergraduates in Arts who have passed the Intermediate examination may take the Middle and Senior years of either of the courses in Practical Science along with the Third and Fourth year in Arts, and may in the third and fourth year omit Mental and Moral Philosophy and may substitute French or German for Latin and Greek. Spanish may be taken instead of French and German.

In addition to the subjects of the Science course, they will be required to satisfy the Examiners in the following subjects, viz: Mathematics, Natural Science, Experimental Physics and Modern Languages.

Undergraduates in Arts of the third or fourth years, or Graduates of any University entering the Department of Practical Science, may at the discretion of the Professors be exempted from such lectures in that Department as they may have previously attended as Students in Arts, but must pass all of the examinations.

Students proceeding to the double degree, will enjoy all privileges with reference to Scholarships, Exhibitions, Prizes and Honours in the same manner as Students in Arts.

### § VI. ATTENDANCE AND CONDUCT.

The regulations under this head are in all respects similar to those in force for Undergraduates in Arts.

### § VII. LIBRARY AND MUSEUM.

Students in this Department will have the same privileges with reference to the Library and Museum, with Undergraduates in Arts.

## § VIII. FEES AND RESIDENCE.

## SESSIONAL FEES:—

*In the Course of Engineering.*—Classes in Arts, \$20. Classes in Engineering, Surveying and Drawing, \$25. Library, \$2. In all, \$47 for each Session.

*In the Course of Mining Engineering.*—Classes in Arts, \$20. Professional Classes, Junior Year, \$25. Middle and Senior Years, \$35. Library, \$2. In all, \$47 to \$57 for each Session.

*In the Course of Practical Chemistry.*—Classes in Arts, \$20.—Professional Classes, \$25. Library, \$2. In all \$47 for each Session.

*Matriculation Fee.*—(In the First Year only). \$4.

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

*Fee for Master of Engineering or Master of Applied Science.*—\$50.

Occasional Students may be admitted to the Lectures in Civil Engineering or Assaying; and will be required to pay a fee of \$45, in addition to \$5 for entrance and use of the Library.

Students are permitted to Board in the City; but arrangements have been made for receiving those who may desire to reside as boarders in the College, and for placing such Students under the immediate superintendence of the Rev. Prof. Cornish, to whom application may be made.

## § IX. LIST OF TEXT-BOOKS AND BOOKS RECOMMENDED FOR REFERENCE.

## COURSE OF CIVIL ENGINEERING.

## 1.—Text-books—Required for the Classes.

- First Year, Surveying and Levelling:*—Castle's "Elementary Text Book," and T. Baker's "Rudimentary Treatise on Land and Engineering Surveying."  
*Drawing.*—Davidson's "Linear Drawing," (Cassell's Technical Manuals.)
- Second Year, Construction.*—Rankine's "Civil Engineering,"—Davidson's "Elements of Building Construction."  
*Drawing.*—Davidson's "Orthographic and Isometrical Projection."
- Third Year, Applied Mechanics.*—Twisden's "Practical Mechanics."—Goodeve's "Principles of Mechanism."  
*Drawing.*—Davidson's "Practical Perspective" and "Drawing for Machinists."

## 2. Books of Reference, recommended for reference, but not necessary for the Classes.

- Railway Construction.*—Haskoll's "Assistant Engineer's Railway Guide,"—Dampsey's "Practical Railway Engineer."
- Hydraulics.*—Stevenson's "Harbours," Rennie's Harbours—Stevenson's "Skerryvore, Lighthouse" Humber "On the water supply of Cities and Towns,"—Hughes' "Water supply of Cities and Towns," Burnell's "Hydraulic engineering," Moncrief "On irrigation," Neville's "Hydraulic Tables," † Haskoll's "Engineering Fieldwork."

- Girder Bridges and Roofs.*—\*Latham's "Girder Bridges,"—Unwin's "Iron Bridges and Roofs,"—Shield's "Strains on Iron Work Structures," Maynard's "Bridges and Iron Bridges."
- Strength of Materials.*—Barlow's "Treatise on the strength of Materials" (Humber), Tredgold and Hodgkinson "On the strength of cast Iron,"
- Specifications and Estimates.*—\*Donaldson's "Handbook of Specifications,"—Haskoll's "Civil Engineers Estimate and Price Book,"—Graham's "Manual on Earthwork," Bidder's "Tables for Earthwork."
- Surveying and Levelling.*—Butler Williams "Practical Geodesy,"—\*Castle's "Engineering Fieldwork,"—Gillespie's "Land Surveying,"—†Simm's "Principles and Practice of Levelling,"—†Bruff's "Engineering Fieldwork."
- Mechanical Engineering.*—Campin's "Treatise on Mechanical Engineering,"—Rankine's—"Prime Movers,"—Fairburn "On Boilers,"—Willis', "Principles of Mechanism,"—Grantham's "Iron-Ship Building,"—† Fairburn's "Iron-Ship Building."
- General.*—\*Transactions of the Institute of Civil Engineers of Great Britain,"—Weale's "Series of Rudimentary Treatises" (Classes of Engineering and Architecture.)—\*Humber's "Series of Modern Engineering,"—Moseley's "Mechanical Principles of Engineering,"—† Spon's Dictionary of Engineering,"—\*Smeaton's "Reports,"—† Simm's "Tunnelling,"—Buck's "Oblique Bridges,"—Tredgold's "Carpentry,"—Nicholson's "Carpenters' Guide," Reid's "Portland Cement,"—Molesworth's "Pocket Book of Engineering Formulae,"—† Sopwith's "Isometrical Projection."

\* Expensive or out of Print.

† In the College Library.

#### COURSE OF MINING ENGINEERING AND ASSAYING.

- Text-Book in Assaying.*  
Kerl's *Metallurgische Probirkunst.*
- Text-Book in Metallurgy.*—Metals: their properties and treatment. By Charles London Bloxam.
- Books for reference on Metallurgy.*—Crookes and Röhrig's *Metallurgy*, Percy's *Metallurgy of Lead*, Bauerman's *Metallurgy of Iron*.
- Books of reference, on Mining and Ore Dressing.*
- (1) Concentration and Chlorination.—Kustel.
  - (2) Rittinger's *Aufbereitung*.
  - (3) *Traité du gisement et de la recherche des minéraux utiles.*—Burat.
  - (4) *Ponson's Traité de la Houille.*
  - (5) *Coal and Coal Mining.*—Warrington Smyth.
- Text-Book on Blowpipe Analysis.*—Elderhorst's *Blowpipe Analysis*.

# Lectures in the Department of Practical Science in the Faculty of Arts.

## SESSION 1872-73.

HOURS.	JUNIOR YEAR.				
	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
9	Mathematics.	† Mathematics. (c)	* French.	† Mathematics. (c)	Mathematics.
10	English.	* French.	English.	* French.	English.
11	Elementary Chemistry.	* German.	Mathematics.	* German.	Elementary Chemistry.
12		Drawing.		Drawing.	Drawing.
1	Surveysing. (c)			Surveysing. (c)	
2					
3					
<b>MIDDLE YEAR.</b>					
9	† Mathematics * German.	Mathematics. (c)	† Logic.	Mathematics. (c)	† Geology * German.
10	† Mathematics * German.	* French.	Mathematics.	* French.	† French.
11	† Mathematical Physics.	Zoology.	† Mathematical Physics.	Zoology.	† Geology * German.
12	Logic.	Experimental Physics. (c)	† Geology * German.	Experimental Physics. (c)	† Logic.
1	† Assaying. (c)	Drawing.	† Assaying. (c)	Surveysing & Levelling. (c)	Drawing or † Assaying. (c)
2	Surveysing and Levelling. (c)		† Construction. (c)		
<b>SENIOR YEAR.</b>					
9	† Geology.	* German.	Geology.	* German.	Geology.
10	† Geology.	† Mathematical Physics.	Applied Mechanics. (c)	† Mathematical Physics.	† Geology.
11	* French.	Experimental Physics. (c)	Construction or † Metallurgy. (c)	Experimental Physics. (c)	* French.
12	Designing and Estimates. (c)	Drawing.		Designing and Estimates. (c)	Drawing.
1	Mining. (c)				† Mining. (c)
2					
3					

\* Students may take either French or German.  
 † Optional.  
 † To Students in Mining Engineering and Assaying.  
 Students in Practical Chemistry will take that subject at P.M. in the middle year, and Assaying at 2 P.M. in the senior year, and will take the lectures in Botany in the Junior or Middle year.  
 Students are recommended to attend the class of Logic, and will receive a certificate on passing the examination.

(c) Second Term only.  
 (d) First Term only.  
 (e) From November, 1st.

LIST OF THE PRINCIPAL DONATIONS.  
TO THE  
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Session 1871-72.

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