ANNUAL CALENDAR

OF

The McGill University College

OF BRITISH COLUMBIA

Founded in 1906 by the Royal Institution for the Advancement of Learning of British Columbia, under authority of an Act of the Legislature

SESSION - 1910—1911

The News-Advertiser.

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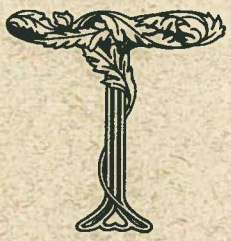

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The Royal Institution for the Advancement of Learning of British Columbia

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Governors of the McGill University College of British Columbia

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JEANETTE A. CANN, B. L. (Dal.), Lecturer in English.

ALICE O. E. HENRY, M. A. (McGill), Lecturer in Modern Languages.

PERCY ELLIOTT, M. Sc. (McGill), Lecturer in Physics.

Academic Year 1910—1911

Friday September 23rd	Matriculation and Supplemental Examinations begin.
Saturday October 1st	Registration and Payment of Fees.
Monday October 3rd	Lectures begin.
Tuesday December 13th	Last day of Lectures for term in Arts.
Thursday December 15th	Last day of Lectures for term in Applied Science. Examinations in Arts begin.
Monday December 19th	Examinations in Applied Science begin.
Thursday December 22nd	Christmas vacation begins.
1911	
Wednesday January 4th	Second term opens.
Thursday April 13th	Last day of Lectures.
Friday April 14th	Good Friday.
Wednesday April 19th	Sessional Examinations begin.

Examination Time Tables

Matriculation Examination

September, 1910

FRIDAY, SEPTEMBER 23rd

Morning	9-10.45—English Grammar.
	10.45-12.45—English Composition.
Afternoon	2.30-4.30—English Literature.
	4.30-6.30—History.

MONDAY, SEPTEMBER, 26TH

Morning	9-11—Latin Books.
	11-1—Arithmetic
Afternoon	2.30-4.30—Latin Composition and Sight.

TUESDAY, SEPTEMBER 27TH

Morning	9-11—French.
	11-12.30—Trigonometry.
Afternoon	2.30-4.30—German.
	4.30-6—Chemistry and Botany.

WEDNESDAY, SEPTEMBER 28TH

Morning	9-11—Geometry, Part I.
	11-12.30—Physics and Physiography.
Afternoon	2.30-4.15—Algebra, Part II.

THURSDAY, SEPTEMBER 29TH

Morning	9-11—Algebra, Part I.
	11-1—Greek Books.
Afternoon	2.30-4.15—Geometry, Part II.
	4.15-6.15—Greek Composition and Sight.

EXAMINATION TIME TABLES

FACULTY OF ARTS

SUPPLEMENTAL EXAMINATIONS, SEPTEMBER, 1910

DATE	Hour	Supp. to First Year Sessional	Supp. to Second Year Sessional	Supp. to Third Year Sessional
Friday 23	9	English Literature	English Literature	English Literature
	2.30	English Composition and History	English Composition	English Composition
Monday..... 26	9	Latin Books.	Latin Books	Latin Books
	2.30	Latin Composition, Sight Translation and History	Latin Composition, Sight Translation, History and Literature	Latin Composition, Sight Translation, History and Literature
Tuesday 27	9	French	French	French
	2.30	French	French	
Wednesday..28	9	Algebra.	Algebra	
	2.30	Trigonometry.	Psychology	
Thursday 29	9	Greek Books. German	Greek Books. Logic. German.	
	2.30	Greek Composition, Sight Translation and History. German	Greek Composition Sight Translation and History. German	
Friday 30	9	Physics	Conics and Solid Geometry	
	2.30	Geometry	Chemistry	

EXAMINATION TIME TABLES

FACULTY OF ARTS

CHRISTMAS EXAMINATIONS, 1910

	First Year	Second Year	Third Year
Thursday, Dec. 15th..A.M.	Mathematics	French	
" P.M.	Latin	Chemistry German	Mathematics ; Physics
Friday, Dec. 16th .....A.M.	French		Latin ; English
" P.M.	English	Latin	French
Monday, Dec. 19th.....A.M.	Physics	Mathematics Logic	
" P.M.	Greek	English	
Tuesday, Dec. 20th ...A M.	German	Greek	English
" P.M.	History	History	

EXAMINATION TIME TABLES.

FACULTY OF ARTS

SESSIONAL EXAMINATIONS, 1911.

Morning examinations commence at 9; afternoon examinations at 2.30.

Day and Date	First Year	Second Year	Third Year
Tuesday, April 18th...P.M.			English Composition
Wed'sday, April 19th..A.M.	Mathematics	French	
" P.M.	Mathematics	French	
Thursday, April 20th.A.M.	Latin	Chemistry German	Mathematics; Physics
" P.M.	Latin	Chemistry German	Mathematics; Physics
Friday, April 21st, ...A.M.	French		Latin; English
" P.M.	French		Latin; English
Monday, April 24th...A.M.	English	Latin	French
" P.M.	English	Latin	French
Tuesday, April 25th...A.M.	Physics	Mathematics Logic	
" P.M.	History	Mathematics	
Wed'sday, April 26th...A.M.	Greek	English	
" P.M.	Greek	English	
Thursday, April 27th..A.M.	German	Greek	English
" P.M.	German	Greek	English

The McGill University College of British Columbia

HISTORICAL SKETCH

In 1894, at the instance of friends of higher education in the Province, who desired such relations between local high schools and universities in other parts of the Empire as would tend to the inception and promotion of university work in British Columbia, legislation was passed which empowered the affiliation of high schools to recognized universities; and this was supplemented in 1896 by an act providing for the incorporation of high schools as colleges in accordance with the charters and constitutions of such universities. Under these enactments Vancouver High School became Vancouver College, and was admitted to affiliation for the First Year in Arts by the Corporation of McGill University, which had in the meantime secured such extension of its charter powers as made possible the admission of extra-Provincial colleges to the relation of affiliation. Work was begun under this relation in 1899, and by 1902 the work had grown so, and was of such a character that an extension of affiliation was granted, to cover the first two years in Arts and the University Intermediate Examination. This year Victoria College, too, applied for and obtained affiliation covering the First Year in Arts. Later the need of university connection more intimate still and essential than that of affiliation and also of extension of the scope of work came to be felt and urged, and the result of much careful urging and deliberation was the passage in 1906 of local legislation (1) enacting that "the Governors, Principal, and Fellows of McGill College and University may exercise and enjoy in the Province of British Columbia all the powers, rights, privileges, and functions conferred upon them by the charter granted to them by His late Majesty, King George IV., in the second year of his reign, and amended by Her late Majesty, Queen Victoria, in the sixteenth year of her reign;" and (2) authorizing the incorporation of a body politic under the name of "The Royal Institution for the Advancement of Learning of British Columbia, whereby the Royal Institution shall undertake the conduct or administration of any part of the higher education work now carried on by such Boards," and also to "establish at such place in British Columbia as McGill University may designate a College for the

higher education of men and women, such College, in respect of courses of study and examinations, to be deemed a College of McGill University, and the instruction given to its students to be of the same standard as that given in like subjects at McGill University at Montreal."

In pursuance of the objects of its foundation, therefore, the Royal Institution established in 1906 at Vancouver the McGill University College of British Columbia (by agreement with the Board of School Trustees) taking over the Arts work previously done by the Vancouver College, with extension of the scope and of the options allowed, adding two years of Applied Science, and in 1908 the Third Year in Arts.

In 1907 the act was amended so as to allow of the establishment of Colleges of the Royal Institution in other cities in the Province, and in the following year the College at Victoria, hitherto directly affiliated to McGill, came under the control of the Royal Institution as a part of the McGill University College of British Columbia, affording courses in the first two years in Arts.

CONSTITUTION OF THE UNIVERSITY COLLEGE

Under the Act of the Legislature of the Province of British Columbia, the Royal Institution for the Advancement of Learning of British Columbia is constituted a body corporate, with all the usual rights and privileges of corporate bodies.

The members of the Royal Institution are the Governors of the College, and, as such, control the finances, make statutes and by-laws, appoint professors, and perform all other administrative duties.

The President of the Royal Institution is ex-officio *Chancellor* of the College.

The Principal is the Academic head and Chief Administrative Officer. He is appointed by the Board of Governors, of which body he is a member, ex-officio.

The statutes and regulations have been framed on the most liberal principles, with a view to providing, as far as possible, for all classes of persons, opportunity for the attainment of mental culture.

The College is undenominational in character.

COURSES OF STUDY

The College offers instruction in the first, second and third years of the Arts Course, and in the first and second years of the Course in Applied Science of McGill University. The standard of work is that of McGill University, all the examinations being conducted by the Examining Board of that institution, which includes all the members of the local staff. Candidates passing the examinations at the end of any year in either Arts or Applied Science are admitted to the next year of McGill University without further examination.

The Courses in Arts are open to men and women on equal footing.

THE SESSION

The University Year or Session is divided into two terms, the first extending to the Christmas vacation, and the second from the expiry of the Christmas vacation to the end of the Sessional Examinations in May.

The Session of 1910-1911 will begin on Monday, October 3rd.

Two matriculation examinations will be held in 1910, the first commencing on Monday, June 13th, and the second on Friday, September 23rd.

Summer Classes.—During the months of May and June, a series of Summer Classes will be conducted, intended mainly, in the first instance, to meet the requirements of students in the first two years of their course. The subjects offered in the Faculty of Arts are English, Latin, Greek, Mathematics, Physics, Chemistry, Logic, Psychology, French and German.

BOARD AND RESIDENCE

Good board and lodging can be obtained in the vicinity of the College buildings at a cost of from $22.00 per month upwards; or, separately, board at $15.00 to $21.00 per month, rooms at $7.00 to $12.00 per month.

A list of suitable boarding and lodging houses, the sanitary conditions of which are required to be properly certified, is prepared, and may be obtained on application to the Registrar.

CLASSIFICATION OF STUDENTS

Except under special circumstances, no student under the age of sixteen is admitted to the first year courses in Arts or Applied Science, or under the age of seventeen to the second year.

Students are classified as Undergraduates, Conditioned Students and Partial Students.

Undergraduates are matriculated students who are pursuing a full undergraduate course of study leading to a degree.

In order to obtain undergraduate standing, a candidate must have passed the matriculation examination of the University or some other examination accepted in lieu thereof (see page 16) and have registered as a matriculated undergraduate.

Conditioned Students are those with defective entrance qualifications who are pursuing a full undergraduate course of study and at the same time seeking to obtain undergraduate standing. The conditions must be removed before the student can be admitted to the Second Year.

Partial Students are those who, not belonging to one of the above classes of students, are pursuing a course of study in the College. Except as provided below, such students may, subject to the approval of the Professor, attend any class without previous examination.

Persons who wish to take a partial course in the first year of the Faculty of Arts must, if under the age of eighteen years, first present to the Principal certificates of having taken a satisfactory course of school instruction. In order to obtain admission to the classes in French, intending students must have passed the University matriculation examination, or an equivalent examination, in that subject.

Partial students who subsequently obtain undergraduate standing by passing the matriculation examination may, as undergraduates, be exempted, at the discretion of the Faculty, from any particular course or courses of lectures which they may have attended as partial students and in which they have passed the sessional examinations.

MATRICULATION

1.—REGULATIONS

1. Matriculation Examinations, which are those of McGill University, are held only in June and September.

All inquiries relating to the examinations should be addressed to the Registrar.

2. Every candidate for examination is required to fill up an application form and return the same with the necessary fee one month before the examination. Blank forms may be obtained from the Registrar.

3. In order to obtain an examination at a local centre, any Headmaster or other person must, before May 1st, submit to the Registrar of McGill University, the name of some suitable person, preferably a university graduate, who is willing to act as deputy examiner, i.e., receive the questions, hold the examinations and forward the answers to Montreal. The University will be responsible for no other local expenses than the payment of the deputy examiners.

4. The examination may be taken in two parts, candidates being free to make such a division of the subjects as may best suit their convenience. Credit will be given for any subjects passed at the first attempt, but unless all the requirements are completed, or at least all but two subjects, at the second, the whole will have to be taken over again; English Grammar, History and Arithmetic, if once passed, being, however, excepted. For the purposes of this regulation, the June and September examinations shall be counted as one.

5. Candidates who at the September examination fail in a small part only of the whole examination may, if their general standing is sufficiently high, be allowed to enter the First Year as conditioned students. Those who are conditioned in a language must attend a special tutorial class during their first session, for which a fee of $10 is exigible. Any student, so conditioned, who fails to attend this class with regularity, will not be allowed to present himself for examination. The standing of a conditioned student, will not as a rule be granted to any who have not presented themselves for examination in September, nor to those who have not shown sufficient knowledge of the subject or subjects in which they failed to justify the examiners in making a favorable recommendation. Conditioned students can obtain full undergraduate standing by passing at a subsequent June or September matriculation examination in the

subject or subjects in which they failed, and will not be permitted to enter the Second Year of their course of study until they have satisfied all matriculation requirements.

6. When two or more books or subjects are prescribed for one examination it is necessary to pass in each.

7. A candidate in order to pass must obtain at least 40 per cent. of the total number of marks allowed for each subject.

8. In view of the precautions taken to prevent mistakes, no request for the re-examination of a paper shall be granted except on payment of a fee of one dollar.

9. Certificates of having passed the following examinations will, if submitted to the Registrar, be accepted *pro tanto* in lieu of the matriculation examination, i.e., in so far as the subjects and standard are, to the satisfaction of the Board of Matriculation examiners, the same as or equivalent to those required for the matriculation examination of this University. Candidates offering certificates which are not a full equivalent will be required to pass the matriculation examination in such of the required subjects as are not covered thereby:—

Province of British Columbia.

The Junior, Intermediate and Senior Grade Examinations.

Alberta and Saskatchewan.

The Departmental Examinations for Standards VII. and VIII.

Province of Quebec.

The Departmental Examination of Grade II. Academy.

The University School Leaving Examination.

The Examination for the Model School Diploma, under certain conditions.

Province of Ontario.

The Junior and Senior Teachers' Certificate Examinations.

Junior and Senior Matriculation Examinations.

Province of New Brunswick.

The Examinations for First-Class Superior and Grammar School Licenses.

Province of Nova Scotia.

The Leaving Examinations, Grades X., XI. and XII.

Province of Prince Edward Island.

The Examination for First and Second Class Teachers' Licenses.

The First and Second Year Examinations of Prince of Wales College.

Newfoundland.

The Intermediate and Associate Grade Examinations.

Great Britain.

The School and Matriculation Examinations of the Universities of Oxford, Cambridge and London, and the Leaving Examinations of the Scotch Education Department.

Applications for exemption from the matriculation examination, based upon certificates of having passed examinations other than those above mentioned, will be considered as occasion may require by the Board of Matriculation Examiners. Every such application must be accompanied by certificates and full particulars, and should be addressed to the Registrar of McGill University.

II.—FEES

(See Page 26.)

III. SUBJECTS OF EXAMINATION

FACULTY OF ARTS.

(*For candidates intending to take the B.A. course.*)

1. English Grammar.
2. History and Geography.
3. Arithmetic.
4. English Composition.
5. English Literature.
6. Latin or Greek.
7. One of the following:
   Greek or Latin (the one not already chosen).
   French, German.

8. Algebra, Part I.
9. Geometry, Part I.
10. One of the following:

    Physiography, Botany, Chemistry, Physics, a Language not already chosen.

(*For candidates intending to take the B.Sc. course in Arts.*)

1. English Grammar.
2. History and Geography.
3. Arithmetic.
4. English Composition.
5. English Literature.
6. Algebra, Part I.
7. Geometry, Part I.
8. French.
9. Latin or German or Physics.
10. One of the following:

    Physiography, Botany, Chemistry, Physics (if not already chosen), Latin (if not already chosen), Greek.

Candidates who intend ultimately to proceed to the study of Medicine are reminded that for medical registration it is necessary to take Latin.

FACULTY OF APPLIED SCIENCE.

(*For all courses leading to the Degree of B.Sc., in Applied Science.*)

1. English Grammar.
2. History and Geography.
3. Arithmetic.
4. English Composition.
5. English Literature.
6. One of the following:

   French, German, Latin, Greek.
7. Algebra, Parts I. and II.
8. Geometry, Parts I and II.
9. Trigonometry.
10. One of the following:

    Physiography, Botany, Chemistry, Physics, a Language not already chosen.

IV. REQUIREMENTS IN EACH SUBJECT.

*English Grammar.**

Main facts in connection with the history of the language; etymology and syntax. A good knowledge of parsing and analysis is essential. West's English Grammar for Beginners is recommended as a text-book.

One examination paper of one hour and three-quarters.

*History and Geography**

Candidates will be required to show a somewhat intimate acquaintance with the history of England from 1485 to the present time. While any text-book written for the upper forms of schools may be used in preparation for the examination, Gardiner's Outline of English History (Longmans) is recommended.

The geography required will be that relating to the history prescribed.

One examination paper of two hours.

*Arithmetic.**

All the ordinary rules, including square root, and a knowledge of the metric system.

One examination paper of two hours.

English Composition.

As in Sykes's Elementary Composition, with an essay on some subject connected with the works prescribed in literature. Frequent practice in composition is essential.

One examination paper of two hours.

English Literature.

For 1910:—

Any two of the following: Shakespeare's Merchant of Venice; Nineteenth Century Prose (ed. Cunliffe), pp. 1-126, with notes (Copp, Clark Co.); Poems of the Romantic Revival (Copp, Clark Co.), pages 1 to 82, with notes; Tennyson's Select Poems, editor Alexander (Copp, Clark Co.).

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* A candidate may obtain exemption from examination in this subject on presentation of a certificate from the Principal of an approved School, or other recognized official authority, to the effect that he has passed satisfactory examinations fully up to the requirements prescribed for matriculation.

In 1911 Julius Caesar will be substituted for the Merchant of Venice. The other requirements will remain as above.

An alternative paper will be set on the texts specified in English for the Junior matriculation examination of the Province of Ontario.

One examination paper of two hours.

Spelling will be tested by the candidates' papers in English Composition and Literature. Examiners in other subjects will also take cognizance of mis-spelled words, and will report flagrant cases to the Board.

Greek.

For 1910 and 1911:—

Texts.—Xenophon, Anabasis, Book I., Chaps. 1 to 8, or Farnell's "Tales from Herodotus" (Macmillan's Elementary Classics), Chaps. VIII. to XVI.

Grammar.—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

Translation at Sight from Greek into English.

Composition.—Translation into Greek of detached English sentences and easy narrative based on the prescribed texts.

Two papers of two hours each will be set, one on composition and translation at sight, the other on prescribed texts and grammar.

Alternative questions will be set on the requirements in Greek for the Junior matriculation examination of the Province of Ontario, if these differ from those specified above.

At the September examination other texts equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of the examination.

Latin.

For 1910 and 1911:—

Texts.—Caesar, De Bello Gallico, Book IV., Chap. 20 to the end, and Book V.; Ovid, Stories from the Metamorphoses (as in Gleason's "A Term of Ovid," American Book Company), lines 1 to 670.

Grammar.—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

Translation at Sight from Latin into English.

Composition.—Translation into Latin of detached English sentences and easy narrative based on the prescribed texts.

Two papers, of two hours each, will be set; one on composition and translation at sight, the other on prescribed texts and grammar.

Note.—The Roman method of pronouncing Latin is recommended.

An alternative paper will be set on the Latin requirements for the Junior matriculation examination of the Province of Ontario, if these differ from those specified above.

At the September examination other texts in Latin equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of the examination.

French.

Grammar.—A thorough knowledge of French accidence and of those points of syntax which are of more frequent occurrence in an ordinary easy style.

Translation at Sight into English of a French passage of moderate difficulty.

Translation at Sight into French of detached English sentences and an easy English passage. Material for such translation is selected with a view to testing the candidates' general knowledge of French grammar. Candidates are required to pass in English-French translation as well as in the paper as a whole.

Books recommended:—Bertenshaw's French Grammar (Longmans), and Cameron's Elements of French Prose Composition (Holt & Co.).

One examination paper of two hours.

French-speaking candidates for matriculation in the Faculty of Applied Science will, if they offer French in place of English, be examined in the following:—

French Composition, Dictation, Grammar (Larousse, Grammaire Superieure).

French Literature:—(Corneille, Le Cid; Racine, Andromaque).

French History:—(A. Rambaud, Histoire de la Civilisation Francaise).

German.

Grammar.—A thorough knowledge of German accidence and of the syntax of the topics treated in Lessons 46, 47, 57, 58, 59 and 60 of the Joynes-Meissner Grammar, and as presented in the Joynes-Meissner, Van der Smissen, or any other German Grammar of equally good standing.

Translation at Sight into English of a German passage of moderate difficulty.

Translation into German of detached English sentences and of an easy English passage. Material for such translation is selected with a view to exemplifying the points of grammar included within the above limits.

Texts.—(Translation and grammatical study):—

For 1910 and 1911.—Volkmann, Kleine Geschichten (Heath & Co.); Stille Wasser, ed. Bernhardt (Heath & Co.). It is recommended that candidates should read the prescribed texts in the above order beginning in Volkmann's Kleine Geschichten with Himmelsschlussel and Siebenmeilenstiefel.

The Ontario Junior matriculation requirements in German will be accepted in place of the texts specified above.

At the September examination other texts equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of the examination.

One examination paper of two hours.

Algebra, Part I.

Elementary rules, involution, evolution, fractions, indices, surds, simple and quadratic equations of one or more unknown quantities; as in Hall and Knight's Elementary Algebra to the end of surds (omitting portions marked with an asterisk), or as in similar text-books.

One examination paper of two hours.

Algebra, Part II.

The three progressions, ratio, proportion, variation, permutations and combinations, binomial theroem, logarithms, theory

of quadratic equations, as in the remainder of Hall and Knight's Elementary Algebra (omitting Chaps. 40 to 43 inclusive), or as in similar text books.

One examination paper of one hour and three-quarters.

Geometry, Part I.

Euclid's Elements, Books I, II, III, with easy deductions; or an equivalent.*

An alternative paper will be set on the Ontario Junior matriculation requirements in this subject.

One examination paper of two hours.

Geometry, Part II.

Euclid's Elements, Books IV. and VI., with definitions of Book V., and easy deductions; or an equivalent.*

An alternative paper will be set on the Ontario Senior, or Honor, matriculation requirements in this subject.

One examination paper of one hour and three-quarters.

For proposed change in requirements for 1912, see University Calendar.

Trigonometry.

Measurements of angles, trigonometrical ratios or functions of one angle, of two angles and of a multiple angle; as in Lock's Elementary Trigonometry, Chaps. I. to XII.; Hall and Knight's Trigonometry, Chaps. I. to XII., inclusive, omitting Chap. V.; or as in similar text-books.

One examination paper of one hour and a half.

Physiography.

The elements of the science, as in Davis's Elementary Physical Geography, or any other text-book covering the same ground.

One examination paper of one hour and a half.

Botany.

Text-book to be selected.

One examination paper of one hour and a half.

* The text-book at present used in McGill University, and also authorized for use in the schools of the Province of Quebec, is Hall & Steven's Euclid (Macmillan & Co.). Teachers will find Hall & Steven's School Geometry a useful adjunct as far as regards practical applications.

Chemistry.

Elementary inorganic chemistry, comprising the preparation and properties of the chief non-metallic elements and their more important compounds, the laws of chemical action, combining weight, etc. The ground is simply and effectively covered by Remsen's "Elements of Chemistry," pp. 1 to 165 and 218 to 243 (Macmillan's Edition).

One examination paper of one hour and a half.

Physics.

Properties of matter; elementary mechanics of solids and fluids, including the laws of motion, simple machines, work, energy, fluid pressure and specific gravity; thermometry, the effects and modes of transmission of heat.

Text-books recommended—Gage's Introduction to Physical Science, 1902 edition (Ginn & Co.), Chaps. I. to IV., inclusive; or Sinclair's Practical Physics, Grades I., II. and III.

One examination paper of one hour and a half.

V.—DATES OF EXAMINATIONS

The examinations in 1910 will commence on Friday, September 23rd. Special arrangements may be made for the examination of candidates who are prevented by severe illness or domestic affliction from presenting themselves on the dates fixed. For the September time-table see first part of Calendar.

VI.—ADMISSION TO ADVANCED STANDING

I.—Entrance to Second Year.

Admission to the Second Year in Arts is open, as a rule, only to undergraduates who have passed the First Year Sessional Examination in regular course, but in special cases, to be dealt with by the Faculty, candidates may be admitted directly to the Second Year without having passed through the curriculum of the First Year.

II.—Admission Ad Eundem Statum.

Any student of another university applying for exemption from any subject or subjects which he has already studied is required to submit with his application a complete statement of

the course he has followed, together with a certificate of the standing gained therein.

The Faculty, if otherwise satisfied, will decide what examination, if any, or what conditions may be necessary before admitting the candidate.

Undergraduates in Arts of the Second and Third Years, or graduates in Arts of any university, entering the Faculty of Applied Science, may, at the discretion of the Faculty, be exempted from such lectures as they have previously attended as students in Arts.

CERTIFICATES AND PRIZES

1. *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 placed in the First Class in not less than half the subjects, and have not more than one Third Class.

2. *Prizes or Certificates* will be given to those undergraduates who have distinguished themselves in the studies of a particular class, and have attended all the other classes proper to their year.

REGISTRATION AND ATTENDANCE

1. Candidates entering on a course of study in any Faculty, whether as undergraduates, conditioned students or partial students, are required to attend at the office of the Registrar on the day preceding the opening day of the Session, for the purpose of filling out the usual form of registration, and of signing the following declaration in the Matricula or Register:—

"I hereby declare that I will faithfully observe the Statutes, Rules and Ordinances of the McGill University College of British Columbia."

2. Students are required to attend at least seven-eighths of the total number of lectures in any one course. Those whose absences exceed one-eighth of the total number of lectures in a course shall not be permitted to come up for examination in that course.

Excuses on the ground of illness or domestic affliction shall be dealt with by the Principal.

3. Punctual attendance on all classes is required of each student. Absence from lectures can only be excused by necessity or duty, of which proof must be given to the Faculty. The number of times of absence, which shall cause the loss of a session, shall in each case be determined by the Faculty.

The following special regulation regarding attendance has been adopted:—

Lectures shall commence at five minutes after the hour, on the conclusion of the roll-call, and students failing to answer to their names shall be marked "absent" unless they report themselves at the close of the lecture, in which case they shall be marked "late," and given such credit for attendance as the Faculty may deem advisable.

4. A record shall be kept by each Professor and Lecturer, in which the presence or absence of students shall be carefully noted. This record shall be submitted to the Faculty when required.

5. Credit for attendance on any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class-room or laboratory. In the case last mentioned, the student may, at the discretion of the Professor, be required to leave the room. Persistence in any of the above offences against discipline shall, after admonition by the Professor, be reported to the Principal.

FEES

General Regulations

Fees shall be paid to the Registrar on or before October 10th and January 10th. *After these dates an additional fee of $2.00 will be exacted of all students in default.*

Matriculation Fees.

For the first examination	$5.00
For a subsequent examination in one or two subjects	2.00
For a subsequent examination in three or more subjects	3.00
For examination of certificates, in respect of which candidates are exempted from the whole of the matriculation examination	1.00

Candidates writing on matriculation papers with the view of qualifying as partial students, shall pay a fee of $1.00 per subject.

Matriculation fees must be sent to the University Registrar at the time of application for the examination.

Certificates will, on application, be issued to successful candidates without additional fee. Duplicate certificates will not be granted unless satisfactory proof be given of the loss or destruction of the original. The fee for a duplicate certificate is $1.00.

FEES FOR UNDERGRADUATES

Fees in Arts.

Students pursuing the full undergraduate course pay a sessional fee of ten dollars.

Partial students pay fees as follows:—

Chemistry, per term	$5.00
Physics, per term	5.00
Other subjects, per term	3.00

Fees in Applied Science.

Sessional fee for full undergraduate course	$50.00
Field work in surveying	25.00
Laboratory courses, per term	5.00
Draughting, per term	5.00
Lecture courses, per term	3.00

The sessional fees are payable in two instalments; half in October, half in January.

Fees for Summer Courses will be announced later.

A deposit of $5.00 as caution money is required from each student. This deposit is returned at the end of the session, after deductions have been made to cover breakages, etc.

At the request of the students themselves, and by the authority of the Royal Institution, two dollars additional will be exacted from all undergraduate and conditioned students for the support of the Student Activities Association.

Information for Students in Arts.

Ordinary Course for the Degree of B.A.

First Year.

Greek, 1, *or Latin,* 1.
English and History, 1.
Mathematics, 1—(*Algebra, Geometry and Trigonometry*).
Latin, 1, *or Greek,* 1, *or French,* 1, 2, *or German,* 1.
Physics, 1.

B.A. students taking both French and German in the First Year may be exempted from First Year Physics, which they are required to take in the Second Year, together with some half-course of the Second Year. Such students may take their Second Year Science subject in the Third or Fourth Year and shall be required to obtain at least 50 per cent. of the maximum number of marks allowed for it.

German may be taken instead of Trigonometry by students who intend to read for Modern Language or English Honors. This option will, however, be granted only on the recommendation of the Departments concerned.

French cannot be taken as a qualifying option in the First Year, except by students who have passed the matriculation examination in this subject.

Second Year.

English Composition.
Latin, 2, *or Greek,* 2.
And three of the following:—
Greek, 2, *or Latin,* 2.
English, 2.
French, 3, 4.
German, 2.
Mathematics, 2.
Chemistry, 1.
Philosophy, 1*a*, 1*b*, 1*c*.

Students intending to take the double course in Arts (B.A.) and Applied Science, must take Mathematics and Chemistry.

Third Year.

English.

And two of the following:—

Mathematics.
Physics.
Latin.
French.

Mathematics or Physics must be one of the subjects chosen by students who have not taken Chemistry in the Second Year.

EXAMINATIONS IN ARTS

1. There are two examinations in each year, viz., at Christmas and at the end of the Session. Successful students are arranged in three classes at the sessional examinations. Those who obtain 75 per cent. and over are placed in the First Class; those who have between 60 and 75 per cent. in the Second Class, and those with from 40 to 60 per cent. in the Third Class.

Christmas examinations will be held in all the subjects of the First and Second Years, and are obligatory on all under-graduates, and also on all partial students of the First Year, unless they have been specially exempted. Partial students of the First Year, who fail in the Christmas examinations, will be requested to withdraw from the class. *Undergraduates and conditioned students of the First Year who fail in more than three subjects at the Christmas examinations will not be allowed to proceed with their course for the remainder of the session.* Twenty-five per cent. of the marks given for the sessional work in each subject will be assigned for the results of the Christmas examinations. Students prevented by illness from attending the Christmas examinations will, on presenting a medical certificate, be given sessional standing on the results of the April examinations, if they have obtained an average of 40 per cent. at the two mid-term examinations, or (where no mid-term examinations are given) an average of 40 per cent. in class exercises. Christmas Examinations in the Third Year may be held at the option of the Professors. When held, the same value will be assigned to them as in the case of the First and Second Years.

2. The following are the regulations for advancement to the Second, Third and Fourth Years of the undergraduate course and are subject to the condition that a student shall not be allowed to continue a subject of the preceding year in which he has not made good his standing, except in the case of compulsory subjects in the Second Year.

Advancement to the Second Year—A student who has failed to complete one of the ordinary courses of the First Year may enter the Second Year without special permission of the Faculty.

A student who has failed to complete two of the ordinary courses of the First Year shall be permitted to enter the Second Year but only on the condition that an average of 50 per cent. has been obtained in the other subjects of the First Year Course.

Advancement to the Third Year.—A student may be allowed to proceed to the Third Year with one subject uncompleted if that subject belongs to the Second Year.

Advancement to the Fourth Year.—A student may be allowed to proceed to the Fourth Year with one subject uncompleted if that subject belongs to the Third Year.

Repeating Year.—By special permission of the Faculty, a student who is required to repeat his year may on application in writing:

(a.) Be exempted from attending lectures and passing examinations in the subjects in which he has already passed.

(b.) Be permitted to take, in addition to the subjects in which he has failed, one of the subjects of the following year of his course.

3. Examinations supplemental to the sessional examinations will be held in September, simultaneously with the matriculation examinations. The time for each 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 $5.00.

4. A list of those to whom the Faculty has granted supplemental examinations in the following September will be published after the sessional examination.

DOUBLE COURSES

ARTS AND APPLIED SCIENCE.

Students who wish to obtain the degree of B. A. and B. Sc. (Applied Science) in six years will spend the first three years in Arts before attending any regular classes in Applied Science, except the Summer Classes referred to below. The student will then enter the Faculty of Applied Science and devote the remaining three years entirely to the work of this Faculty. The special Summer courses mentioned are necessary in order to overtake the work in Descriptive Geometry, Drawing and Shopwork, which form part of the regular courses of the first two years in Applied Science. This work must be taken in two periods of one month each (in the month of May), at the close of the regular work of the First and Second Years in the Faculty of Arts.

All students in the First and Second Years of the double course must, on the 31st of March, notify the Principal that they are taking this double course and will consequently enter themselves for the summer work in question at the close of the regular work of the session.

The subjects which they are required to take each year in the Faculty of Arts are as follows:—

FIRST YEAR.

The curriculum as laid down for the B. A. Degree in this year, except that a modern language *must* be taken.

SECOND YEAR.

1. English Composition.
2. Latin.
3. Mathematics (Dynamics, Statics, Hydrostatics and Spherical Trigonometry).
4. French or German.
5. The modern language not selected under No. 4 (if studied in the First Year), *or* English.

THIRD YEAR.

1. English Composition.
2. Physics.
3. Any two of the following:—
   English, Latin, French.

ARTS AND MEDICINE.

Students who wish to obtain the Degree of B. A. or B. Sc. (Arts) and M. D., in seven years will take three years in the Faculty of Arts and during the remaining four years will work altogether in the Faculty of Medicine.

For information as to this course apply to the Registrar.

A certificate of "Literate in Arts" will be given along with the professional Degree in Medicine or Applied Science, to those who have completed two years' study in the Faculty of Arts, and have passed the prescribed examinations.

ARTS AND THEOLOGY.

1. The Faculty will make formal reports to the governing body of the Theological College which such students may attend as to:—(*a.*) their conduct and attendance on the classes of the Faculty, (*b.*) their standing in the several examinations; such reports to be furnished after the examinations, if called for.

2. Students who are pursuing a double course in Arts and Divinity (six years at least) will take in the Third and Fourth Years the courses which constitute the ordinary curriculum in Arts, less a half course in each of these years, or a whole course in either.

COURSES OF LECTURES IN ARTS.

GREEK.

All students taking Greek are expected to provide themselves with a grammar, a Greek-English dictionary, and an Atlas of ancient geography. The following are recommended:—

Allen's Elementary Greek Grammar; Liddell and Scott's Greek Lexicon (Abridged, or Intermediate); Kiepert's Atlas Antiquus or Putzger's Historical Atlas.

First Year.

1. Lectures, four hours a week.

For 1910-11:—AUTHORS: Lysias, Selections (Shuckburgh, Macmillan); Homer, Odyssey Books VI and VII (Merry, Clarendon Press); Euripides, Alcestis (Blakeney, Bell's Illustrated Classics).

COMPOSITION: North and Hillard's Greek Prose Composition (Rivingtons).

TRANSLATION AT SIGHT: Peacock and Bell, Passages for Greek Translation (Macmillan, Elementary Classics).

GREEK HISTORY: 560 to 479 B. C. Book recommended; Cox's Greeks and Persians (Longmans Epoch Series), or Bury's History of Greece (Macmillan), chs. V. to VII.

Second Year.

2. Lectures, four hours a week.

For 1910-11: AUTHORS: *Summer Reading.*—GREEK HISTORY: 479 to 403 B. C. Books recommended, Bury, History of Greece (Macmillan), chs. VIII to XI; Abbott, Pericles and the Golden Age of Athens (Putnam). *Lectures.*—Thucydides, Book VI, (in part) (Marchant, Macmillan): Aeschylus Prometheus Vinctus (Prickard, Clarendon Press); Homer, Odyssey V. (Merry, Clarendon Press).

COMPOSITION: North and Hillard's Greek Prose Composition (Rivingtons).

TRANSLATION AT SIGHT: Greek Unseens in Prose and Verse, Intermediate Section (Blackie & Son).

LATIN.

All students taking Latin are expected to provide themselves with a grammar, a Latin-English dictionary, and an Atlas of Ancient Geography. The following are recommended: Allen and Greenough's New Latin Grammar; Lewis' School Dictionary, *or* White's Junior Students' Latin-English Dictionary; Kiepert's Atlas Antiquus, *or* Putzger's Historical Atlas.

First Year.

1. Lectures, four hours a week.

For 1910-11: AUTHORS:—Caesar and Pompey in Greece (Atherton, Ginn & Co.); Cicero, Pro Lege Manilia (Nicol, Cambridge University Press); Tibullus, Selections (Dobson, Arnold's Latin Texts).

COMPOSITION: North and Hillard, Latin Prose Composition (Rivington).

TRANSLATION AT SIGHT: Hardy's Latin Reader (Macmillan).

ROMAN HISTORY: Outlines, to 133 B. C. Book recommended, Botsford, History of Rome (Macmillan), chs. I to VI.

Second Year.

2. Lectures, four hours a week.

For 1910-11:—AUTHORS: *Summer Reading*:—ROMAN HISTORY: Outlines, from 133 B. C. to 337 A. D. Books recommended, Botsford, History of Rome (Macmillan), chs., VII to XII. *Lectures.*—Livy, Book XXI (Trayes, Bell's Illustrated Classics); Horace, Historical Odes (Church, Blackie); Virgil, Aeneid VI (Sidgwick, Pitt Press).

COMPOSITION: North and Hillard's Latin Prose Composition (Rivingtons), and Exercises based upon Livy Book XXI.

TRANSLATION AT SIGHT: Augustan Prose (Eaton, Foster Brown).

Third and Fourth Years.

3. Lectures, four hours a week.

For 1910-11: *Summer Reading.*—Mackail, History of Roman Literature (Scribner's).

AUTHORS: Lectures.—Livy, Book IX (Anderson, Pitt Press); Pliny's Letters Book VI (Duff, Pitt Press); Juvenal, Satires I, III, V, VIII, X, XIII, (Duff, Pitt Press).

A course of twelve lectures on the History of the Empire.

A course of twelve lectures on the Private Life of the Romans.

COMPOSITION: Selected Passages.

TRANSLATION AT SIGHT: Rivington's Class Books of Latin Unseens (ed. Smith), Book X.

ENGLISH.

First Year, 1.—Halleck's History of English Literature (American Book Co.), pp 1-261, with the following readings:—Chaucer, Prologue to the Canterbury Tales; Spenser, Faerie Queen, Book 1; Milton, Comus; European History (Adams, (Macmillan), pp 53-451. Regular practice and instruction in composition are strongly recommended.

Second Year, 2.—*English Literature.*—Halleck's History of English Literature, pp. 305-480, and Nineteenth Century Literature (Cunliffe and Cameron, Copp, Clark Co.)

Composition.—Fortnightly essays will be required and will be taken into account in determining the standing of students at the end of the session. One hour per week. This course is obligatory on all second-years students.

Third Year, 3A.—Prose Writers Before Dryden.—The main object of the course will be to discuss the chief literary influences visible in the Pre-Restoration writers of English prose and to examine characteristics of style. The subject will be treated chronologically. As the course is largely interpretative and critical, facts of biography will be used only when they illustrate points of moment.

Students will read the following works for examination: More, Utopia (Arber's reprint, or Temple Edition); Sidney, Apologie for Poetry (Ed. Cook, Ginn & Co. or Schuckburgh, Cambridge University Press); Lodge, Rosalynd (Newnes, Caxton Series); Bacon, New Atlantis; Earle, Microcosmographie (Temple Ed.); Milton, Areopagitica (Ed. Hales, Clarendon Press).

3B. English Literature.—Shakespeare.—This course will begin with a review of the early history of the English drama, and of the conditions which led to its development in the time of Elizabeth. The advances made by the earlier Elizabethan dramatists will be noted, and Shakespere's methods illustrated by a comparative study of A Midsummer Night's Dream, Romeo and Juliet, Henry V, As You Like It, Hamlet, King Lear, Macbeth and the Tempest; Plays of Sophocles, Marlowe's Plays, Everyman (Everyman's Library); the relation of these plays to their sources will be also considered. Students are recommended to read as many of Shakespere's plays as they can, and to give special attention to those mentioned above. Books of reference will be named from time to time. Two hours a week.

3C. English Composition.—An advanced course on English Composition, including style, methods and principles of literary criticism, treated from the historical point of view, and an introduction to the comparative study of literature in accordance with the most recent results of contemporary thought and research. In connection with this course students will be examined in a course of prescribed readings. Essays at stated periods are required of all. Winchester, Principles of Literary Criticism. One hour a week.

FRENCH.

First Year.

1. *First Term*:—Vreeland & Koren, French Syntax and Composition (Holt), first ten lessons with exercises I and II for each lesson; Mademoiselle de la Seigliere, Sandeau (Holt).

Second Term:—Chauteaubriand, Les Aventures du dernier Abencerage (Holt); Grammar, Lessons—with exercises I and II for each lesson.

2. *First Term*:—Daudet, Tartarin (A. B. Co.); Milhau, Choix de Poesies (Renouf), pieces beginning on pp. 19, 42, 65, 69.

Second Term:—Dumas, Napoleon, including the pasasges for translation into French (Macmillan). Milhau, pieces beginning on pp. 5 and 22; Super, Histoire de France (Holt), Chaps. V. and VI. to bottom of page 50, pp. 55-60 and Chaps, XVI and XVII, to bottom of page 167.

Four hours weekly, two for each course.

Second Year.

SUMMER READINGS for students entering on their Second Year:—Corneille, Cinna (Holt); Daudet, Le Petit Chose (Heath).

The examination on Summer Readings will be held in the first week of the season.

SESSIONAL LECTURES.

3. *First Term*:—Vreeland and Koren, French Syntax and Composition (Holt), Idioms of the first ten lessons with the third exercise for each lesson, Part II; de Cid (Holt); Elementary Historical French Grammar, all phonetical part.

Second Term:—Grammar, remainder of Part I, and Part III; Bazin, Les Oberle (Holt); Elementary Historical French Grammar, the morphological part.

4. *First Term*:—Hugo, Quatre-vingt-treize (Heath) pp. 1-153. Milhau, Choix de Poesies (Renouf), pieces beginning on pp. 22, 33.

Second Term:—Finish Quatre-vingt-treize; Moliere, Les Femmes Savantes (Heath); Mansion, Esquisse de la Litterature Francaise (McDougall & Co., London), Sections 73-76, 80-83, 97-103, 111-130, 135-141, 143-177, 180-183, 197-201, 225-229.

Four hours weekly, two for each course.

Third and Fourth Years.

The courses will consist mainly in the study of French Literature and Advanced Prose Composition.

SUMMER READINGS for students entering on the Third or Fourth Year:—Racine, Phedre (Heath); Hugo, Quatre-vingt-treize (Ginn).

The examination on Summer Readings will be held in the first week of the session.

SESSIONAL LECTURES.

5. For 1910-11:—Literature up to the end of the XVIIth Century. Doumic, Histoire de la Litterature Francaise; Corneille, Polyeucte; Racine, Les Plaideurs, Andromaque; Moliere, Tartuffe; Boileau, Choix d'Epitres et de Satires; La Bruyere, Selections; Madame de la Fayette, La Princesse de Cleve.

In the Second Term a course will be given on Zola, France, Brunetiere, Bourget and Rostand.

Prose Composition:—Spiers, Graduated Course of Translation into French Prose (Simpkin, Marshall and Co., London).

6. For 1911-12: Literature in the XVIIIth and XIXth Centuries. Lesage, Gil Blas (Heath & Co.); Marivaux, Le Jeu de l'Amour et du Hasard; Buffon, Discours sur le Style; Montesquieu, Grandeur et Decadence des Romains; Sedaine, Le Philosophe sans le savoir; J. J. Rousseau, Selections; Voltaire, Zaire; Doumic, Histoire de la Litterature Francaise.

Victor Hugo, Ruy Blas; Musset, Selections (Ginn & Co.); Balzac, Eugenie Grandet; Rostand, Princesse Lointaine; Hugo, Legende des Siecles; Gautier, Poesies (Selections).

Prose Composition:—Spiers, Graduated Course of Translation into French Prose (Simpkin, Marshall and Co., London).

N. B.—In order to be admitted to the Third Year French a student must understand French well enough to take lectures delivered in French.

Four hours weekly.

GERMAN.

Beginners' Course.

1. Van der Smissen und Fraser, High School German Grammar (Copp Clark Co.); Meissner, Aus deutschen Landen (Holt); Schiller, Maria Stuart (Holt & Co.)

A tutorial class conducted during May and June enables students to overtake work not completed by the close of the winter session. Students intending to take German in their Second

Year are required to take this class, or if exempted by the Faculty, to take a supplemental examination in September.

Four hours weekly.

SUMMER READING (obligatory) for students of the Beginners' Class intending to take German in their Second Year:—Schiller, Die Piccolomini (Holt); Riehl, Die vierzehn Nothelfer (A. B. Co.)

First Year.

2. *First Term*:—The Joynes-Meissner German Grammar (Heath); Moscher, Willkommen in Deutschland (Heath); *Second Term*: Horning, German Composition; Freytag, Die Journalisten (Ginn); Schiller, Maria Stuart (Holt & Co.); German and French Poems (Holt & Co.)

Four hours weekly.

Second Year.

SUMMER READINGS for students entering on their Second Year:—Schiller, Die Piccolomini (Holt); Riehl, Die vierzehn Nothelfer (A. B. Co.)

The examination on Summer Readings will be held in the first week of the session.

3. SESSIONAL LECTURES.—The Joynes-Meissner German Grammar; Horning, German Composition; Schiller, Jungfrau von Orleans (Holt); Lessing, Minna von Barnhelm, ed, Primer Heath & Co.); Goethe, Egmont (Ginn); Keller, Bilder aus der Deutschen Literatur (American Book Co.), edition 1905.

Four hours weekly.

PHILOSOPHY.

Second Year.

1A. *Elementary Psychology.*—An introduction to the science. Lectures, demonstrations, reports and thesis. Four hours per week throughout the first term of session. Text book:—Angell, Psychology. (Last Edition.)

1B. *Logic.*—In the second term a course in the Elements of Logic and the Fallacies. The course will embrace an analysis of the elements of rational thought and the principles of valid reasoning with frequent illustrations of their application to scientific and popular discussion; as well as a detailed examination of the types of fallacious reasoning most commonly perpetrated in

literature and daily life. Fortnightly exercises will be set and will form an important feature of the course. Three hours weekly, throughout the second term.

Text Book: S. H. Mellone, Introductory Text Book of Logic (*third edition*) chs. 1-4 (omitting section V, ch. 4) 5, 6, 7 and 10. Use will also be made of Lafleur's Illustrations of Logic.

1C. *Introductions to Philosophy.*—A short course of lectures upon the nature of philosophy and its relation to the sciences, and its place as a university study. Study and class-room discussion of some easy piece, or pieces, of typical philosophical literature such as Descarte's Discourse on Method or Berkeley's "Three Dialogues" or Plato's Phaedo. One hour weekly.

MATHEMATICS.

First Year.

1. *Plane and Solid Geometry.*—The equivalent of Books IV, VI and XI of Euclid, with supplementary matter from Hall and Stevens' Euclid.

Algebra.—Hall and Knight's Elementary Algebra (omitting Chaps. XL-XLII inclusive), or the same subject matter in similar text-books.

Trigonometry.—Hall and Knight's Elementary Trigonometry to page 210 and Chap XIX.

Nature and use of Logarithms. (Bottomley's four figure tables).

Four hours per week.

Second Year.

2. *Geometry.*—(a) Solid Geometry, continuation of the First Year; (b) Geometrical Conic Sections, Wilson's Solid Geometry and Geometrical Conics.

Algebra.—Permutations and Combinations; Binominal Theorem; Exponential and Logarithmic Series; Interest and Annuities; Undetermined Coefficients; Partial Fractions; Summation of typical series; Probabilities; Determinants; Graphic Methods.

Text Book.—Hall and Knight's Higher Algebra.

Three hours per week.

Third Year.

3. *Elementary Analytical Geometry;* elementary parts of the Differential and Integral Calculus; simple Differential Equations.

Four hours per week.

PHYSICS.

First Year.

1. *Physics.*—This course has two objects: (1) to give the minimum acquaintance with Physical Science requisite for a liberal education to those whose studies will be mainly literary; (2) to be introductory to the courses in Chemistry and other branches of Natural Science, and to the more detailed courses in Physics in the Third and Fourth Years. Only the most important principles in each branch of the subject will be treated, as far as possible, with reference to their historical development and mutual relations; and they will receive concrete illustration in the study of the principal instruments in daily use in the laboratory. Two illustrated lectures will be given per week. During the session each student will be required to attend in the laboratory, and make measurements involving the use of the following instruments:—*Balance, Pendulum, Barometer, Thermometer, Sonometer, Telescope, Microscope, Tangent Galvanometer, Wheatstone's Bridge.*

Mechanics.—Velocity, space-time, diagram; acceleration, velocity-time diagram; composition of velocity and accelerations; mass, force, weight, Attwood's machine; resultant of two forces acting at a point; equilibrium; centre of gravity; simple machines, work, calculation of force exerted by machines by equality of work done on the machine and work done by the machine; fundamental properties of solids, liquids and gases; fluid pressure, hydraulic press, density and specific gravity of gases; atmospheric pressure; Boyle's Law.

Light.—Sources and propagation of light; Rumford's and Bunsen's photometers; reflection and refraction at plane surfaces; the sextant; concave mirrors; convex lenses; the magnifying glass, the eye and spectacles; combination of two lenses to form a telescope or microscope; the velocity of light; simple experiments illustrating dispersion, polarization and interference.

Heat.—Temperature and mercury in glass thermometer; expansion of solids, liquids, and of gases at constant pressure; spe-

cific heat of solids; latent heats of fusion and evaporation; the mechanical equivalent of heat; conduction, convection, and radiation.

Sound.—Production and propagation of sound; nature of wave motion; vibration of strings; organ pipes; resonance.

Electricity and Magnetism.—Natural and artificial magnets; magnetic poles; magnetization by induction; molecular theory of magnetism; lines of force; the mariner's compass; electrical attractions and repulsions; the goldleaf electroscope; electrical induction; Faraday's ice-pail experiment; the electrophorus and Whimshurst machine; magnetic heating and chemical effects of currents; simple cell; the Daniell cell; the tangent galvanometer; proportionality of current and E. M. F. for a given conductor; force on a current in a magnetic field; motors; induction of currents and the dynamo; the induction coil; applications of electricity for practical purposes.

Two hours a week. *Text-book*:—Gregory and Hadley (Macmillan).

Third Year.

2. Experimental Physics.—(*First Course.*)—Laws of energy, sound, light and heat. *Text-book*:—Watson (Longmans).

Lectures fully illustrated. Two hours a week; with Laboratory Course, three hours a week.

Laboratory Manual.—Tory and Pitcher.

Heat.—Construction and calibration of thermometers; melting and boiling points; air thermometer; expansion of solids, liquids and gases; calorimetry; specific and latent heats; laws of vapor pressure; radiation; the mechanical equivalent of heat, and elements of thermodynamics.

Sound.—Wave motion, velocity of sound; vibration of tuning forks, strings and air columns; pitch; musical scales; interference; resonance.

Light.—Photometry; laws of reflection and refraction; indices of refraction; focal lengths and magnifying powers of mirrors, lenses, telescopes and microscopes; dispersion; interference; diffraction; polarisation.

CHEMISTRY.

Second Year.

1. *General Chemistry.*—A Course of Lectures on Elementary Chemical Theory, and on the principal elements and their

compounds. The lectures are fully illustrated by means of experiments.

Text-books:—Holleman's Text-book of Inorganic Chemistry (Translation by Cooper); Remsen's Organic Chemistry. *For Reference*: Bloxam's Chemistry. Three hours a week.

Elementary Practical Chemistry.—This course is compulsory for all undergraduates taking the above course of lectures. The work includes experiments illustrative of the laws of chemical combination, the preparation of pure chemical compounds, and elementary Qualitative Analysis. Four hours a week.

Information for Students in Applied Science

The instruction in this Department covers the work of the First and Second Years of the Faculty of Applied Science of McGill University. Being largely in Mathematics and pure Science, it is intended as a foundation for the specialization carried on in the Third and Fourth Years in the various branches of Engineering. In two additional years at McGill, students may proceed to the Degree of B.Sc. in any of the following Departments:—

I.—*Architecture.*
II.—*Chemistry.*
III.—*Chemical Engineering.*
IV.—*Civil Engineering and Surveying.*
V.—*Electrical Engineering.*
VI.—*Mechanical Engineering.*
VII.—*Metallurgical Engineering.*
VIII.—*Metallurgy.*
IX.—*Mining Engineering.*
X.—*Railways.*

The regular work of each session in Applied Science will end about the first of May, at the close of the sessional examinations. The summer work will commence as soon as practicable thereafter, and will be continued for six weeks (see Reg. 2, below).

EXAMINATIONS

1. Sessional examinations are held in all subjects. In addition there are Christmas examination in certain subjects, and class examinations are held from time to time, at the option of the Professor.

2. Credit will be given in the sessional standing for class examinations held during the session, and also for the Christmas examinations.

3. Students who have failed in one or more subjects of the curriculum shall be required to make good their standing by passing:—

(1) The supplemental examinations, (for students attending the Survey School, August 31st to September 3rd approximately; for all others, September 26th to 29th approximately),* *or*

(2) The sessional examinations, *or*

(3) The examinations of the summer courses when such examinations are equivalent to the sessional examinations,† *or*

(4) Special examinations, which shall be given only under exceptional circumstances and by authority of the Faculty.

4. No student will be allowed to take any course until he has passed the examinations in the necessary pre-requisite subjects.

5. Partial students are entitled to examinations in the subjects which they have taken as Partial Students, but not to supplementals, nor to examinations in other subjects.

Summer Work.

1. All undergraduates entering the Second Year (excepting those taking the Practical Chemistry Course), students in the Civil Engineering, Mining Engineering and Transportation (Railways) Courses entering the Third Year are required to be in attendance at the Surveying School on the 5th of September, when the field work in Surveying and Geodesy will commence. (See page 54.)

2. Undergraduates in the Mechanical, Electrical and Metallurgical Engineering Courses are required to attend a summer session of about six weeks between the Second and Third Years. The work to be done in the first two of these courses is as follows:—Mechanical Drawing (Machine Design and Machine

* Students will not be permitted to come up for both of these examinations.

† These examinations are open only to students who have attended the summer courses and who have paid the regular fees therefor.

Drawing), 10 hours per week; Physics and Physical Laboratory Work, 11 hours per week; Shopwork (Smith shop and Foundry), 11 hours per week. Undergraduates in Metallurgical Engineering will take courses in qualitative and quantitative chemical analysis.

3. During the summer vacation all students entering the Third Year are required to prepare a thesis on a subject specified by the Faculty, or make a report on some practical work in course of construction. The marks given for these theses are added to the results of the sessional examinations, but no credit will be given for any report handed in later than 10 days after the opening of the Session.

During the summer vacation following the close of the First Year students entering the Second Year will be required to read certain English classics, and to pass an examination on the same at the opening of the session. The books assigned for the vacation of 1910 are as follows:—

Southey, "Life of Nelson."

Lamb, "Essays of Elia."

Kingsley, "Hereward the Wake."

Dickens, "David Copperfield."

George Eliot, "Adam Bede."

The five books assigned to the First Year students are all found in "Everyman's Library."

GENERAL OUTLINE OF COURSES.

The curriculum, as laid down in the following pages, may be changed from time to time as deemed advisable by the Faculty. The work prescribed for the first two years is the same in all courses.

The subjects of instruction in these years for all courses, and the number of hours per week devoted to each, are as follows:

FIRST YEAR.

SUBJECT	Lectures per Week		Laboratory, Etc. Periods* per Week	
	First Term	Second Term	First Term	Second Term
Algebra	5	5	...	...
Descriptive Geometry	...	...	2	2
English	1	1	...	...
Freehand Drawing	...	...	1	1
Geometry	3	...	...	...
Mech. Drawing	...	...	1	1
Mechanics	2	2	...	...
Physics	2	2	...	...
Physics. Lab	...	...	1	1
Shopwork	...	...	2	2
Trigonometry	...	3	...	...

All students of the First Year, who at the close of the first term have failed in any four of the following five subjects, which form part of the work of the first term, viz., Dynamics, Geometry, Algebra, Physics, Descriptive Geometry, will be required to withdraw from the University.

SECOND YEAR.

SUBJECT	Lectures per Week		Laboratory, Etc. Periods* per Week	
	First Term	Second Term	First Term	Second Term
Anal. Geometry	3	...	...	...
Calculus	3	3	...	...
General Chemistry	3	3	...	...
General Chemistry Lab	...	...	1	1
Graphical Statics	...	...	...	1
Mapping	...	...	1	1
Materials of Construction	1	1	...	...
Mechanical Drawing	...	...	1	1
Mechanics	...	3	...	...
Mech. of Machines	3	3	...	...
Physics	2	2	...	...
Physics Lab	...	...	1	1
Shopwork	...	...	1	1
Surveying	2	2	...	...
Surveying Field Work	...	...	...	8

*A laboratory period is three hours.

NOTE—Surveying Field Work, 4 weeks, beginning September 5th, 1910.

COURSES OF LECTURES.

N. B.—The following courses are subject to such modifications during the year as the Faculty may deem advisable.

1.—CHEMISTRY.

Second Year Lectures.

General Chemistry.—An introductory course in descriptive and theoretical chemistry. The fundamental laws and theories are studied in conjunction with a detailed description of the preparation, properties and industrial applications of the more important elements and their compounds. Three hours a week.

Text Book:—Alex. Smith's General Chemistry for Colleges.

Second Year Laboratory.

General Chemistry.—In this course the student is taught the construction and use of ordinary apparatus and performs a series of experiments designed to cultivate the powers of observation and deduction. Many of these experiments involve accurate weighing. Considerable attention is also devoted to the subject of qualitative analysis. One period a week for all students of Engineering.

2.—DESCRIPTIVE GEOMETRY.

This course deals with the methods of representing objects on one plane so that their true dimensions may be accurately scaled. It discusses the methods employed in the graphical solution of the various problems arising in engineering design, and deals generally with the principles underlying all constructive drawing. The methods taught are illustrated by applications to practical problems. It is the aim of the work to develop the imagination in respect to the power of mentally picturing unseen objects, and, incidentally, precision in the use of the drawing instruments is attained.

First Year.—Geometrical drawing; problems on straight line and plane; projections of plane and solid figures; curved surfaces and tangent planes; intersections of surfaces; axometric projections; shades and shadows.

Text Books:—Geometrical Drawing by C. H. McLeod; McLeod's Elementary Descriptive Geometry.

3.—ENGLISH COMPOSITION.

In view of the importance of accuracy of expression in the case of those engaged in scientific or professional work, a course on English Composition is prescribed for all undergraduates of the First Year. Students who give evidence of having already reached the required standard of proficiency, by passing a special exemption examination, may be excused from attendance on this course. This special examination will be held on Saturday, October 1st, at 11 o'clock.

Students who are required to take this course will be assigned to a section which will meet weekly for practice and instruction in composition.

Satisfactory results in class and essay work must be obtained before entry into the Second Year. All undergraduates of the First Year, whether exempt or not from attendance on the course, must pass the final examination.

4.—FREEHAND DRAWING, LETTERING, ETC.

In the *Freehand Course,* the object is to train the hand and eye so that students may readily make sketches from parts of machinery, etc., either as note book sketches, diagrams, perspective drawings in light and shade, or as preparatory dimensioned sketches from which to make scale drawings.

In the *Lettering Course,* plain block alphabets, round writing, and titles, such as are chiefly in use in draughting offices will be dealt with. In this course, also, tinting, tracing, blue printing and simple map drawing will be included.

5.—GRAPHICAL STATICS.

Composition of forces; general methods involving the use of funicular and force polygons; determination of reactions; centres of gravity, bending moments and moments of resistance; stresses in cranes, braced towers, roof trusses and bridge trusses.

Required of all Engineering students.
Three hours per week, second term of Second Year.

6.—MATERIALS OF CONSTRUCTION.

Manufacture and properties of cast iron, wrought iron, crucible, bessemer and open hearth steel; principal alloys; considerations governing selection of materials; manufacture and properties of Portland and natural cements; limes; concrete; stone and

brick masonry; principal kinds of timber used for engineering purposes; preservation of timber. Discussion of standard specifications.

One hour per week. Required of all Engineering students in the Second Year.

7.—MATHEMATICS.

Geometry.—Exercises in Plane Geometry, including loci, transversals, etc., elements of Solid Geometry and of Geometrical Conic Sections. First Year (first term). Text Book:—Wilson's Solid Geometry and Conic Sections (Macmillan).

Algebra.—Miscellaneous theorems and exercises, exponential and other series, properties and solution of higher equations, complex numbers and vector algebra, graphical algebra with an introduction to Analytic Geometry, indeterminate forms, limits, derivatives, slopes of curves, First Year (first and second terms). Text Books:—Wentworth's College Algebra (Ginn & Co.), Tanner and Allen's Analytic Geometry (American Book Co.)

Trigonometry.—Plane and Spherical. First Year (second term). Text Book:—Murray's Plane and Spherical Trigonometry, with tables (Longman's).

Mechanics.—An elementary course in dynamics, statics, and hydrostatics. First Year (first and second terms). Text Book: Loney's Mechanics and Hydrostatics for Beginners (Cambridge University Press).

Analytic Geometry.—The point, straight line, circle, parabola, ellipse and hyperbola, elements of geometry of three dimensions. First Year (latter part of second term), and Second Year (first term). The Second Year work begins with the circle. Text Book:—Tanner and Allen's Analytic Geometry (American Book Co.)

Calculus.—Differentiation of functions of one or more variables, successive differentiation, tangents, etc., multiple points, asymptotes, curvature, maxima and minima, integration, with applications to areas, volumes, moments of inertia, etc. Second Year (first and second terms). Text Book:—Murray's Differential and Integral Calculus (Longman's).

Mechanics.—(Second Year). The course treats of the general principles of statics, the laws of motion and dynamics of a particle. Cases of motion under varying force are treated, and a knowledge of differential and integral calculus is essential.

Students taking the course must attend the Second Year Mathematics course in the calculus. They must also have taken First Year dynamics (see Mathematics courses), or be otherwise qualified.

Three lectures per week, second term of Second Year. Text Book—Jean's Theoretical Mechanics.

8.—MECHANICS OF MACHINES.

Second Year.

Three hours per week. Required of all Engineering students.

Kinematics and Machines.—Constrained motion; kinematic pairing; velocity and acceleration in mechanisms; centrodes; analysis and classification of simple mechanisms, including the quadric crank chain, the slider crank chain, and various wheel trains; design and involute and epicycloidal wheel-teeth.

Dynamics of Machines.—Work and power; the power and turning effort of prime movers; inertia and kinetic energy of revolving and reciprocating parts of machines.

Text Book:—Durley's Kinematics of Machines (Wiley).

Reference Book:—Kennedy, Mechanics of Machinery (Macmillan).

9.—MECHANICAL DRAWING.

First Year.

Three hours per week. Required of all Engineering students. Elementary principles of mechanical drawing and draftsmanship; preparation of working drawings and tracings of simple machine details.

In connection with this work a brief course of lecture is given upon drafting room methods and standards, and the elementary considerations in the design and construction of, and selection of materials for, simple machine parts.

Second Year.

Required of all Engineering students.

Drafting and tracing of more difficult exercises; and the making of assembly and detail drawings of machine parts. Lec-

tures are given from time to time during the course dealing with drafting room methods, explanation of design and discussion of reasons for selection of materials.

Summer School. Nine hours per week during Summer Term after conclusion of Second Year Session. Required of Electrical and Machanical Engineering students.

Exercises in making sketches of machine parts and in preparing working drawings and tracings from them.

10.—PHYSICS.

The instruction includes a fully illustrated course of experimental lectures on the general principles of Physics (embracing, in the First Year, *The Laws of Energy—Heat, Light and Sound;* in the Second Year, *Electricity and Magnetism*), accompanied by courses of practical work in the laboratory, in which the students will perform for themselves experiments, chiefly quantitative, illustrating the subjects treated in the lectures. Opportunity will be given to acquire experience with all the principal instruments used in exact physical and practical measurements.

FIRST YEAR.—Lecture course. Two hours per week. For syllabus, see under Third Year Arts.

Laboratory Course.—Three hours per week, spent in practical measurements in conjunction with the lecture courses and in accordance with the following outline:—

Heat.—Calibration of thermometers; boiling point; air thermometer; expansion of solids, liquids and gases; calorimetry; latent heats.

Sound.—Velocity of sound; determination of rates of vibration of tuning forks; resonance; laws of vibration of strings.

Light.—Photometry; laws of reflection and refraction; focal lengths and magnifying powers of mirrors, lenses, telescopes and microscopes; the sextant; spectroscope, spectrometer, optical bench.

Text Books:—Watson (Longman's); Tory and Pitcher, Laboratory Manual.

SECOND YEAR.—Lecture course, two hours per week.

Magnetism.—Pole strength, magnetic force, moment of a magnet, intensity of magnetization, magnetic potential, terrestrial magnetism.

Electrostatics.—Quantity of electricity; electric force and potential; capacity of condensers; specific inductive capacity; current electricity; magnetic field of currents; force on currents in a magnetic field; Ohm's Law; resistance; chemical effects of currents; heating effects of currents; electromagnetic induction of currents; thermo-electricity; magnetic properties of iron and steel, diamagnetism; electric waves; discharge through gases; cathode and Roentgen rays; radio-activity.

Laboratory course, three hours per week. *Magnetism and Electricity.*—Measurements of pole strength and moment of a magnet; the magnetic field; mehods of deflection, and oscillation; comparison of moments and determination of the elements of the earth's magnetism.

Current Electricity.—A complete course of measurements of current strength, resistance, and electromotive force; calibration of galvanometers.

Text Books:—Whetham's Experimental Electricity; Tory and Pitcher, Laboratory Manual.

317. An additional course, involving four laboratory periods per week with lectures, will be given in May and June for students in Electrical and Mechanical Engineering.

11.—SHOPWORK.

The course in shopwork is intended to afford some preparation for that study of workship practice on a commercial scale which every engineer has to carry out for himself. With this end in view, the student works in the various shops of the department, and completes in each a series of practical exercises. He thus obtains some knowledge of the nature and properties of the various materials he employs; he receives systematic instruction in the use and care of the more important hand and machine tools; and he acquires some manual skill.

The instruction thus obtained must, however, be continued and supplemented. *For this purpose students are expected to spend the greater portion of each long vacation in gaining practical experience in engineering workshops outside the University.*

Students are required to read and make notes of selected portions of certain text-books, and articles in technical journals, illustrative of the work done in each shop.

In connection with his shopwork each student is required to keep a record of his work. These records or notes are made on

standard forms. These are handed in to the Shop Instructor at the close of each period of work, and, together with diligence and the results of a brief written examination, form the basis on which credit for shopwork is assigned.

The work of the various shops is carried out under the direction of the Professor of Mechanical Engineering. The following are the subjects of instruction:

Carpentry and Wood Turning.—Sharpening and care of wood-working tools; sawing, planing and paring to size; preparation of flat surfaces, parallel strips, and rectangular blocks; construction of the principal joints employed in carpentry and joiner work, such as end and middle lap joints, end and middle mortise and tenon joints, mitres, and dado and sash joints; dovetailing; scarfing; joints used in roof and girder work; wood-turning; use of wood-turning tools.

Smith-work.—The forge and its tools; use and care of smith's tools; management of fire; use of anvil and swage-block; drawing taper, square and parallel work; bending, upsetting, hardening, and tempering tools for forge and machine work; tempering drills, dies, taps, and springs.

Foundry Work.—Moulders' tools and materials used in foundry work; the cupola; the brass furnace; preparation of moulding sand; boxes and flasks; core-making; use of core-irons; bench moulding; blackening, coring and finishing moulds; vents, gates and risers; floor moulding; open sand work; melting and pouring metal; mixtures for iron and brass casting.

Machine-shop Work.—Exercises in chipping; preparation of flat surfaces; filing to straight edge and surface plate; scraping, screwing and tapping; use of scribing block and surface gauge; marking off work for lathes and other machines; turning and boring cylindrical work to gauge; surfacing; screw-cutting and preparation of screw-cutting tools; use of turret lathe; taper turning; machining flat and curved surfaces on the planing and shaping machines; plain and circular milling with vertical and horizontal spindles; gear-cutting; cutter-grinding; drilling and boring; use of jigs; grinding flat and cylindrical surfaces; cutting tools for hand and machine; their cutting angles and speeds; dressing and grinding tools.

12.—SURVEYING.

This course is designed to give the student a theoretical and practical training in the methods of plane and geodetic survey-

ing, in the field work of engineering operations, and in practical astronomy. The lecture course is divided as follows:

Second Year.—Chain and angular surveying; the construction, adjustment, use and limitations of the transit, level, micrometer, compass and minor field and office instruments; topography; levelling; contour surveying; railway circular curves; planimeter and pantograph; general land systems of the Dominion and Provinces.

Field Work.—The students are required to carry out the following work:

In the Second Year:—(1) A farm survey using chain and compass; (2) a compass and micrometer survey; (3) a detail survey using chain and offset; (4) levelling; (5) transit work.

All students are required to keep complete field notes, and to prepare maps, sections and estimates.

Field work is required of all students of the Second Year. The work will begin in 1910 on 5th September, and will continue for four weeks.

THIRD AND FOURTH YEARS.

For the Third and Fourth Year courses in the several Departments, students are referred to the Calendar of McGill University.

SESSIONAL EXAMINATIONS

1909-1910

ARTS.

First Year.

Passed first year examinations.

Class II—Netta Hardy, Robert G. Dunbar, Clive E. Cairnes, David S. Forster, Frank C. Davison, E. Merrill DesBrisay (s), Earl A. B. Kirkpatrick, Alice M. Keenleyside.

Passed—Grace A. Bolton, Annie Letvinoff, Percy Chadwick, Angus H. McKay (s), Violet England (s), Noreen M. Orme (s), Gladys C. Schwesinger, Winnifred M. DePencier (s), Edna E. Austin (s), Eldon D. Busby (s), Harry A. Barrett, Nettie C. Lingle (s), Ethel J. Mutch (s), Ada A. Schwengers (s), George Y. K. Shuen, Sidney G. Baldwin (s), Sadie H. Munro, Eileen DesBrisay (aegrotat).

Latin: Class I—Dunbar, Hardy, Wilson. Class II—Keenleyside, Forster, England, Cairnes, Bolton. Passed—Davison, Letvinoff, Austin and DesBrisay, McKay, Lingle, Chadwick and DePencier and Orme, Baldwin, Schwesinger, Bodie, McNaughton and Munro, Mutch and Schwengers.

Greek: Class I—Dunbar, Hardy. Class II—Keenleyside, Cairnes. Passed—DesBrisay, Kirkpatrick, Baldwin and McTavish.

French: Class II—Davison and Forster, Wilson. Passed—England, DePencier, Bolton, Chadwick, Letvinoff, Schwesinger, Barrett, Shuen.

German: Passed—Letvinoff, Schwesinger, England, Macaulay, Bodie, Howell.

English: Class II—Hardy, Cairnes, Davison, Keenleyside, Letvinoff, Hall, Dunbar and Bolton and Schwengers. Passed—Grant and Maclean, Wilson, Schwesinger, Austin and Chadwick, Busby and England and Kirkpatrick, Forster, Orme, Howell, Shuen, Barrett.

Passed in Composition and History: DesBrisay, Munro.

Passed in Composition and Literature: McLean, Bodie, Baldwin.

Passed in History and Literature: MacSwain, Ross.

Passed in Literature: Crane, DePencier, McTavish, Mude, McNaughton.

Passed in History: Lingle, Cattell.

Physics: Class I—Kirkpatrick, Forster. Class II—DesBrisay, Hardy, Chadwick, McKay and Oana, Cairnes, Bolton and Hall and Howell and Mude, Orme, Letvinoff, Keenleyside. Passed—Frame, Baldwin and Barrett, Davison and Rogers, McLean, Grant and Maclean, McNaughton and Sargent, Busby and DePencier, Mutch and Schwesinger, Dunbar and Mutch, Munro, Austin, Crane, Schwengers and Shuen, Lingle.

Algebra: Class I—DesBrisay, Cairnes, Kirkpatrick. Class II—Frame, Dunbar, Forster and McKay and Oana, Mutch, Bolton and Chadwick and Letvinoff. Passed—Davison, Mude, Barrett and Hardy and Orme, Busby and Sargent, Rogers, DePencier and Lingle and McNaughton, Shuen, Munro, Austin.

Trigonometry: Class I—Forster, Kirkpatrick, Dunbar, Oana, Cairnes and DesBrisay. Class II—Frame, Davison, Lingle, Bolton and McKay. Passed—Chadwick, Mutch, Hardy, Shuen, Barrett, Mude and Munro, Busby and Keenleyside, Sargent, Orme.

Second Year.

Passed second year examinations.

Class II—Clara E. Harris, Christina Buchanan, Leonard A. Muttit, Walter T. McCree, Elta M. Beckman, Annes V. Mills, Edward C. Muddell (s). Passed—Richard R. Holland, John R. Turnbull (s), Gladys Greggs, Wilson Dougan.

Latin: Class I—Buchanan, Mills. Class II—Muddell and Muttit. Passed—McCree, Dougan, Beckman and Reid and Harris, Holland and Turnbull, Greggs.

Greek: Class II—Mills, Muttit. Passed—Beckman, Turnbull.

French: Class II—Harris, Buchanan. Passed—Wilson, Holland, Greggs.

German: Class II—Clara E. Harris.

English Literature: Class I—Harris, Beckman, Holland, Muttit, McCree. Class II—Turnbull, Mills, Buchanan Reid, Greggs. Passed—Wilson, Dougan, Muddell.

English Composition: Class I—Harris, McCree, Muttit. Class II—Holland, Beckman, Buchanan. Passed—Turnbull, Mills, Greggs, Reid, Dougan, Wilson.

Algebra: Class I—Muddell. Passed—Buchanan, Dougan, McCree.

Geometry: Class I—Muddell, Buchanan. Class II—Dougan. Passed—McCree, Smith.

Logic: Class II—McCree. Passed—Muttit, Holland, Mills.

Chemistry: Class I—Muddell. Class II—Greggs. Passed—Beckman, Dougan.

Third Year.

Latin: Class II—Owen J. Thomas, J. V. MacLeod, Andrew R. Thompson. Passed—Margaret A. Smith, Hazel E. Macleod, James B. Boyd, Mabel H. McKeen, Lena Letvinoff, Gordon S. Selman, Stanley D. Meadows, Margaret Dixon.

French: Class II—Gordon Lindsay. Passed—J. V. Macleod, James B. Boyd, Jean T. Willett.

English Prose: Class II—Gordon Lindsay, Jean E. Willett. Passed—J. V. Macleod and Margaret A. Smith; Gordon S. Selman, Lena Letvinoff, Andrew R. Thompson, James B. Boyd, Stanley D. Meadows.

English Drama: Class I—Gordon Lindsay. Class II—Jean T. Willett. Passed—J. V. MacLeod, Lena Letvinoff, Andrew R. Thompson, Mabel H. McKeen, James B. Boyd, Hazel E. Macleod, Gordon S. Selman, Margaret A. Smith and Owen J. Thomas, Margaret Dixon and Stanley D. Meadows.

English Composition: Class II—Andrew R. Thompson, Lena Letvinoff and Jean T. Willett, Gordon Lindsay. Passed—Gordon S. Selman, Hazel E. Macleod and J. V. MacLeod, Margaret A. Smith, James B. Boyd, Owen J. Thomas, Margaret Dixon, Mabel H. McKeen.

Physics: Class II—Owen J. Thomas, Andrew R. Thompson, Stanley D. Meadows. Passed—Jean T. Willett, Gordon Lindsay, Margaret Dixon, Mabel H. McKeen, Gordon S. Selman, Margaret A. Smith, Hazel E. Macleod.

APPLIED SCIENCE.

First Year.

General Pass List.

Class I—Elmer H. Chave. Class II—Norman E. Lyche, John A. Carson. Passed—Horace G. Stone (s), Charles P. Creighton (s), Maurice G. Armytage, John G. McRae (s), Russell H. Burnett (s), Richard Draper (s), Hamilton C. Hughes (s), Basil L. Sawers (s). (S) to pass supplemental examination.

Descriptive Geometry: Class I—Stone. Class II—Carson and Creighton, Lyche and O'Brien, Chave. Passed—Armytage.

English: Class II—Chave, Stone. Passed—Carson and McRae, Lyche, Hughes, Burnett and Sawers, Creighton, Draper.

Freehand Drawing: Class I—Stone. Class II—Creighton, Chave and Lyche, McRae, Hughes, Draper, Armytage. Passed—Bell-Irving, Sawers, Carson, Burnett and O'Brien, Fisher.

Geometry: Class I—Lyche. Class II—Chave, Carson. Passed—Burnett, Draper, Armytage, Stone, Sawers, O'Brien, Creighton and Hughes.

Algebra: Class I—Chave, Lyche. Class II—Burnett. Passed—Carson, McLellan, Armytage, McRae, Sawers.

Trigonometry: Class I—Chave. Class II—Lyche, Carson. Passed—McRae, Armytage, Burnett, Underhill, Draper.

Dynamics: Class I—Chave. Class II—Lyche. Passed—Creighton and O'Brien, Carson, Armytage and Burnett, Stone, Underhill, McRae.

Physics: Class I—Chave. Class II—Creighton and Lyche, Carson and Stone. Passed—Burnett, O'Brien, McRae, Armytage and Underhill, Draper and Sawers.

Physics Laboratory: Class I—Chave, Lyche. Class II—Creighton, Carson, Armytage, Draper, O'Brien, McRae and Stone. Passed—Hughes, Burnett, Sawers, Fisher, Bell-Irving.

Shop Work: Class —Carson, Hughes. Class II—Chave, Creighton and Lyche. Passed—Bell-Irving, Burnett, O'Brien and Stone, Fisher and McRae and Sawers, Armytage and Draper.

Mechanical Drawing: Class I—Creighton, Carson, Chave. Class II—Draper, Armytage, Stone. Passed—Lyche, Hughes, McRae, Sawers, O'Brien, Bell-Irving and Burnett.

SECOND YEAR.

General Pass List.

Class II—John J. McNiven, Moise J. Cohen, Frank Bagshaw, R. Burns McLellan (s). Passed—Charles Russell Chaffey (s), M. Leighton Wade (s), Donald M. McGregor (s), Duncan A. MacKinnon (s), Gifford M. Irwin (s), William R. Fleming (s), Lawrence P. Macrae (s). (S) to pass supplemental examination.

Chemistry: Passed—Wade, MacKinnon and McNiven, Cohen, Bagshaw, Macrae and McGregor, Chaffey and Irwin.

Chemical Laboratory: Class II—MacKinnon, Wade, McNiven, Fleming. Passed—Underhill, Chaffey, Bagshaw and Irwin, McGregor, Macrae, Cohen, Scott.

Mechanics of Machines : Class II—McNiven, Cohen. Passed—Bagshaw and McLennan, Wade, MacKinnon, Irwin, Chaffey, McGregor, Fleming.

Mapping: Class I—Chaffey, Bagshaw and McLellan. Class II—McNiven, Macrae, Cohen, Underhill and Wade. Passed—Fleming, McGregor, Scott.

Materials of Construction: Class I—McNiven. Class II—Wade, MacKinnon, Bagshaw and Fleming. Passed—Cohen, Chaffey and Macrae, McLellan, McGregor.

Analytic Geometry: Class I—Cohen. Class II—McNiven, Bagshaw and MacKinnon. Passed—McGregor, Macrae, Chaffey.

Calculus: Passed—Cohen, Irwin, McNiven, Bagshaw, McLellan.

Mechanics: Class II—Bagshaw, Cohen, McLellan. Passed—MacKinnon, McGregor, McNiven, Chaffey and Wade, Fleming.

Mechanical Drawing: Class I—Underhill, Chaffey, McNiven. Class II—McLellan, Bagshaw, Wade. Passed—Cohen and Macrae, Fleming, McGregor, MacKinnon.

Physics: Class II—Chaffey, MacKinnon, McLellan and McNiven. Passed—McGregor, Cohen, Wade, Bagshaw, Irwin.

Physical Laboratory: Class I—Bagshaw, Cohen, Wade, MacKinnon. Class II—Fleming, McLellan, Scott, McNiven, McGregor, Macrae, Chaffey.

Shop Work: Class I—McNiven, Wade. Class II—Bagshaw, Underhill, Chaffey, McLellan, Cohen. Passed—Fleming, Irwin, Macrae, Scott, McGregor.

Surveying: Class II—McLellan. Passed—Irwin, Cohen, McNiven, Chaffey, McGregor, Bagshaw.

Surveying, Field Work: Class I—McNiven. Class II—Bagshaw and Macrae, McLellan, Chaffey, Underhill, Cohen, Wade. Passed—McGregor, Fleming.

Graphical Statics: Class I—Cohen, McLellan. Class II—Bagshaw, McNiven. Passed—Macrae, Irwin, Fleming, McGregor, MacKinnon, Wade.

Register of Students.

ARTS.

THIRD YEAR.

Undergraduates.

Boyd, James B., Vancouver.
Dixon, Margaret, Vancouver.
Lindsay, Gordon, Vancouver.
Macleod, Hazel E., Vancouver.
MacLeod, J. Virgil, Sumas.
*McKeen, Mabel H., Vancouver.
*Meadows, Stanley D., Vancouver.
Selman, Gordon S., Vancouver.
*Smith, Margaret A., Central Park.
Thomas, Owen J., Vancouver.
Thompson, Andrew R., Vancouver.
Willett, Jean T., Vancouver

Partials.

Hyde, James, Vancouver.
Letvinoff, Lena, Vancouver.

SECOND YEAR.

Undergraduates.

Beckman, Elta M., Vancouver.
Buchanan, Christina, Rossland.
*Busby, Edward M., Vancouver.
Dougan, Wilson, Vancouver.
Greggs, Gladys, Vancouver.
Harris, Clara E., Moresby Island.
*Holland, Richard R., Vancouver.
*McCree, Walter T., Vancouver.
Mills, Annes V., Nanaimo.
Muddell, Edward C., Vancouver.
*Muttit, Leonard A., New Westminster.
Turnbull, John R., Vancouver.
Wilson, Ray H., Vancouver.

Partials.

McConnell, Robert A., Vancouver.
Reid, Hugh S., Vancouver.

FIRST YEAR.

Undergraduates.

Anderson, Daniel J., Vancouver.
Austin, Edna E., Kamloops.
Baldwin, Sidney G., Vancouver.
Barrett, Harry A., Vancouver.
Bolton, Grace A., Vancouver.
Busby, Eldon D., Vancouver.
Cairnes, Clive E., Ladner.
Chadwick, Percy, Vancouver.
Crane, Harry J., Vancouver.
Davison, Frank C., Vancouver.
De Pencier, Winnifred M., Vancouver.
DesBrisay, Eileen, Vancouver.
DesBrisay, E. Merrill, Vancouver.
Drost, Herbert M., Vancouver.
England, Violet, Vancouver.
Ford, George S., Central Park.
Forster, David S., Vancouver.
Frame, William L., Vancouver.
Gilbert, Reginald H., Vancouver.
Grant, Harold D., Vancouver.
Hardy, Netta, Nanaimo.
Keenleyside, Alice M., Vancouver.
Kirkpatrick, Earl A. B., Vancouver.
Letvinoff, Annie, Vancouver.
Lingle, Nettie C., Rossland.
Macaulay, Vida I., Vancouver.
McKay, Angus H., Vancouver.
McLean, John J. M., North Vancouver.
McTavish, Charles H., Vancouver.

*Conditioned Undergraduates.

Undergraduates—*Continued.*

Mude, Mona, Vancouver.
Munro, Sadie H., Vancouver.
Mutch, Ethel J., Vancouver.
Otton, Marian, Eburne.
Perry, Rolf Selby, Vancouver.
Rogers, C. H. A., Vancouver.
Sargent, Rey A., North Vancouver.
Schwengers, Ada A., Vancouver.
Schwesinger, Gladys C., Vancouver.
Shuen, George Y. K., Vancouver.
Wilson, Percy Milton, Vancouver.

Conditioned.

Bodie, Isabel A., Vancouver.
Dunbar, Robert G., Vancouver.
Howell, Benjamin H., North Vancouver.
Macaulay, A. Howard, Vancouver.
Mutch, John T., Vancouver.
Orme, Noreen M., Vancouver.
Paddon, Amy W., Vancouver.

Partials.

Bowser, William J., Kerrisdale.
Chalmers, David A., Vancouver.
Drysdale, Janet R., Vancouver.
Gamble, James A., Vancouver.
Hall, Unina F., Vancouver.
Harvey, Annie E., Peachland.
Hyde, James, Vancouver.
Little, Katherine E., Vancouver.
Maclean, Archibald, Vancouver.
MacSwain, Amelia A., Vancouver.
McNaughton, Harold A. Vancouver.
Morgan, Clovis B., Vancouver.
Oana, Bernard F., Vancouver.
Reid, Hugh S., Vancouver.
Wiegand, Elsa N., Vancouver.
Wilgress, Leolyn D., Vancouver.
Wilson, Robert M., Vancouver.

APPLIED SCIENCES.

SECOND YEAR.

Bagshaw, Frank, Victoria.
Cohen, Moise J., Vancouver.
Chaffey, Charles R., Central Park.
Fleming, William R., Vancouver.
***Irwin, Gifford M., Vancouver.
MacKinnon, Duncan A., Vancouver.
Macrae, Lawrence P., Victoria.
McGregor, Donald M., Victoria.
***McLellan, Robert B., Vancouver.
McNiven, John J., New Westminster.
*Scott, James H., Vancouver.
*Underhill, James T., Vancouver.
*Wade, M. Leighton, Kamloops.

FIRST YEAR.

**Armytage, Maurice G., North Vancouver.
*Barker, Culver M., Vancouver.
**Bell-Irving, Malcolm McB., Vancouver.
Bell-Irving, Robert, Vancouver.
**Burnett, Russell H., Vancouver.
Carson, John Alton, Vancouver.
Chave, Elmer H., Victoria.
Creighton, Charles P., New Westminster.
Cunningham, Jeffree A., Victoria.
Draper, Richard, South Vancouver.
Fisher, Aubrey S., Vancouver.
Hughes, Hamilton C., Vancouver.
*Ingram, George A. W., Vancouver.
**Lyche, Norman E., Ucluelet.
McRae, John G., Victoria.
**McRae, William D., Vancouver.
*O'Brien, Cotter, Vancouver.
**Painter, Harry J., Vancouver.
**Sawers, Basil L., Vancouver.
*Stone, Horace G., Vancouver.

*Partial Student. **Conditioned Student.
***Conditioned Undergraduate.

INDEX

Admission to Advanced Standing 24
Attendance 25
B.A. Course 28
B. Sc. Course 43
Board and Residence 13
Certificates and Prizes 25
Chemistry 41, 47
Classification of Students 14
Constitution of College 12
Courses of Study 13
Courses of Lectures 32, 47
Descriptive Geometry 47
Double Courses 31
English 34, 48
Examinations in Arts 29
Examination Time Tables 7, 8, 9, 24
Examinations, Sessional 55
Examinations in Applied Science 43
Fees 26
Freehand Drawing 48
French 35
Graphical Statics 48
German 37
Greek 32
Historical Sketch 11
Latin 33
Lettering 48
Materials of Construction 48
Mathematics and Mathematical Physics 39, 49
Matriculation 15
Mechanics of Machines 50
Mechanical Drawing and Designing 50
Philosophy 38
Physics 40, 51
Registration and Attendance 25
Requirements in Subjects for Matriculation 19
Register of Students 61
Shopwork 52
Summer Classes 13
Summer Work in Applied Science 44
Surveying 53