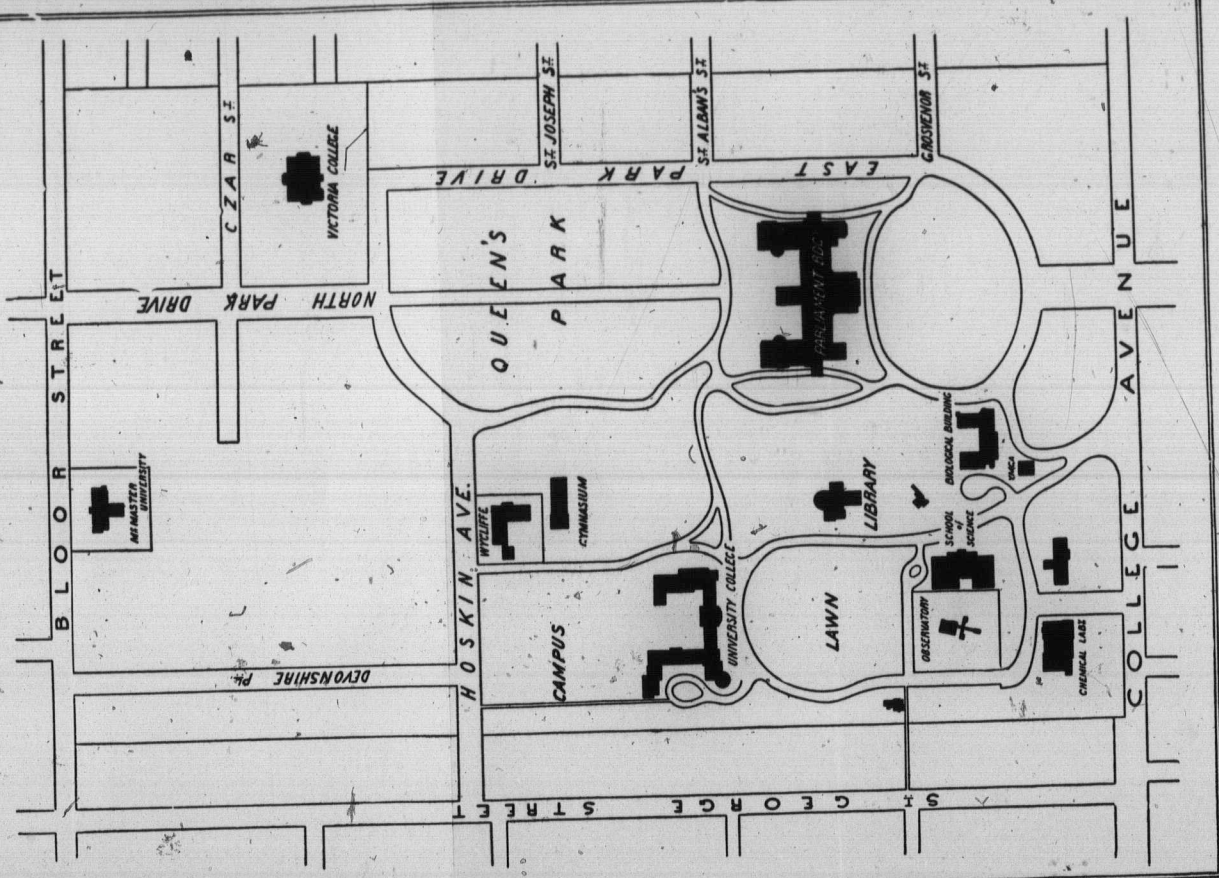




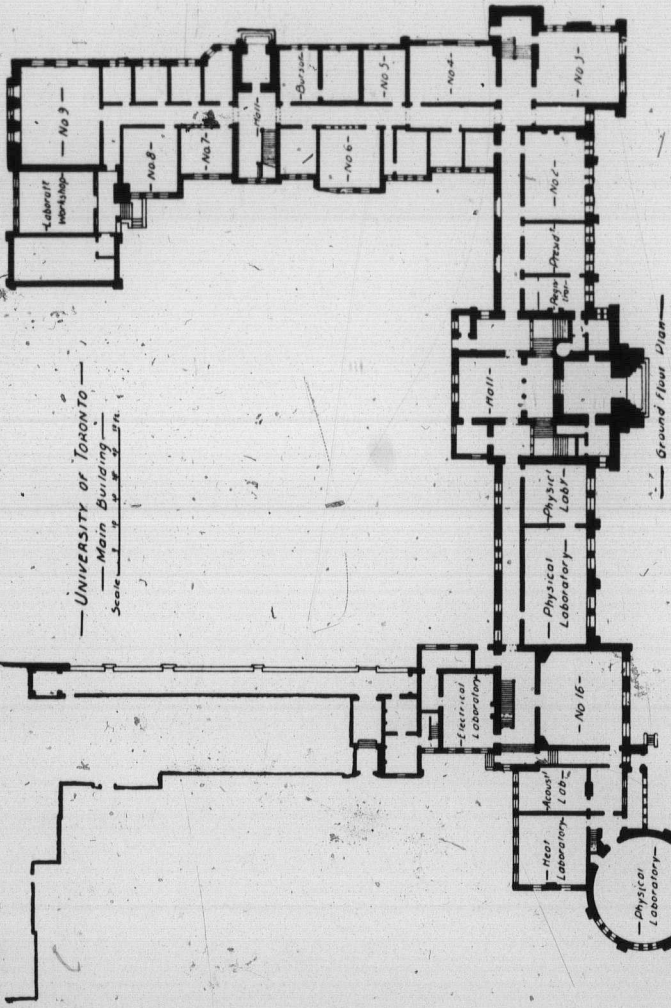


# UNIVERSITY OF TORONTO.

Scale of Feet



136  
29/88



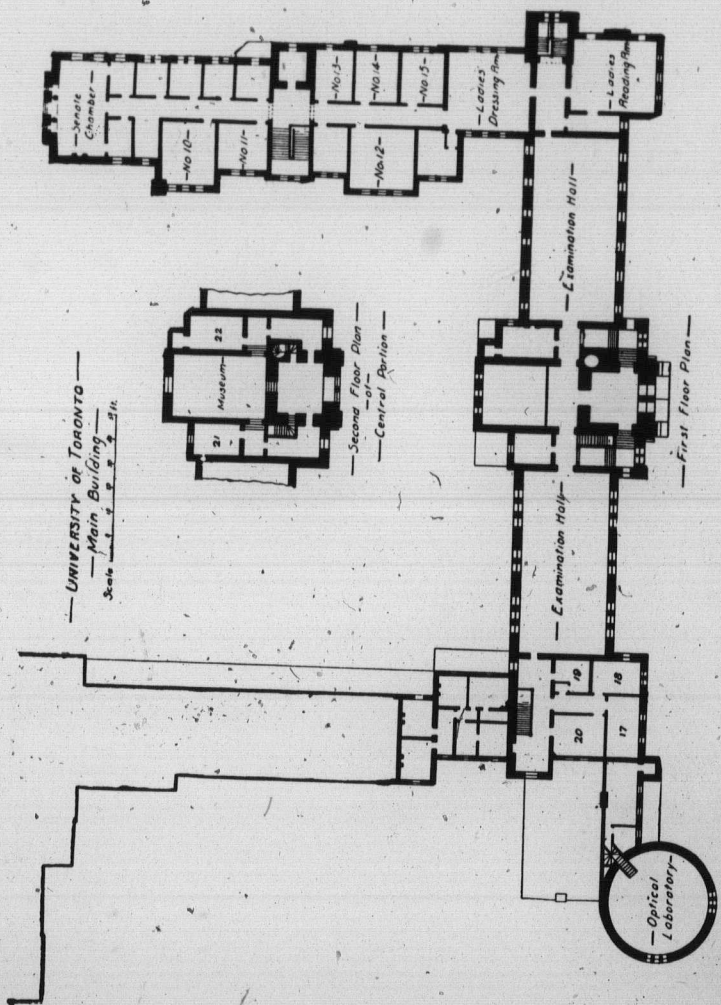
— UNIVERSITY OF TORONTO —  
 — Main Building —  
 Scale 1" = 10' 0"

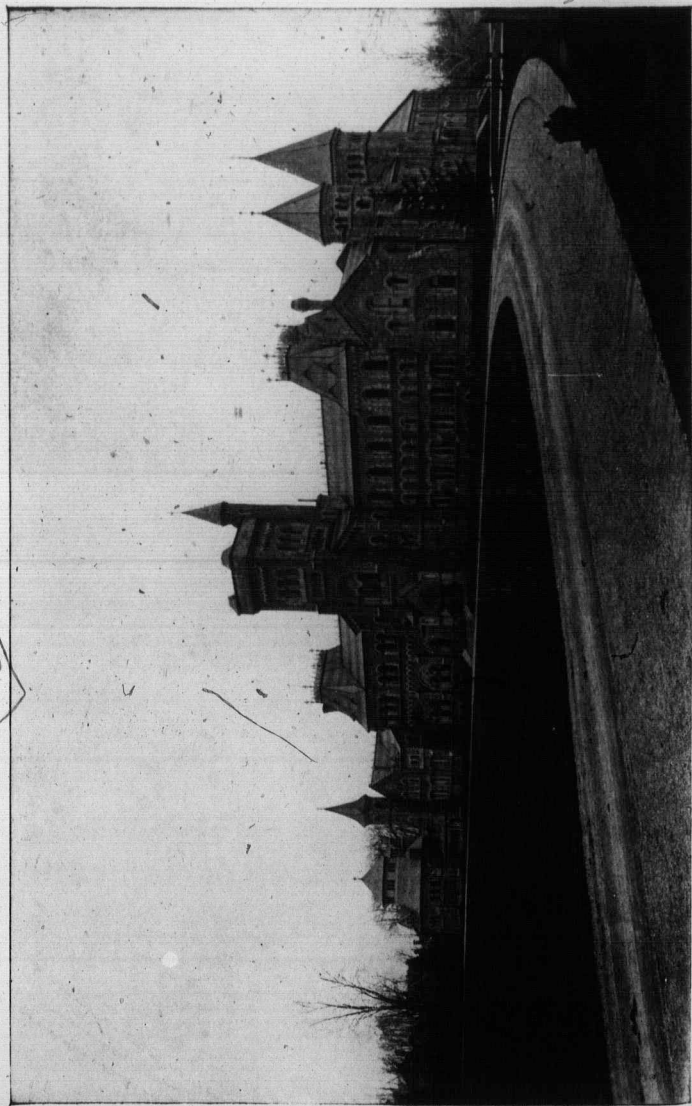
— UNIVERSITY OF TORONTO —  
 — Main Building —  
 Scale 1" = 10' 0"

— Ground Floor Plan —

— UNIVERSITY of TORONTO —  
— Main Building —

Scale 1" = 20' 0"





Main Building.

C374

UNIV



C370

THE  
CALENDAR  
OF THE  
UNIVERSITY OF TORONTO  
AND  
UNIVERSITY COLLEGE  
FOR THE YEAR  
1899-1900.

Main Building.



TORONTO :  
ROWSSELL & HUTCHISON, PRINTERS.

1899.





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CALENDAR - 1899														1900						
JANUARY.							JULY.							JANUARY.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31	...	...	...	...	29	30	31	...	...	...	...	29	30	31	...	...	...	...
FEBRUARY.							AUGUST.							FEBRUARY.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31	...	...	...	...	29	30	31	...	...	...	...	29	30	31	...	...	...	...
MARCH.							SEPTEMBER.							MARCH.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31	...	...	...	...	29	30	31	...	...	...	...	29	30	31	...	...	...	...
APRIL.							OCTOBER.							APRIL.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31	...	...	...	...	29	30	31	...	...	...	...	29	30	31	...	...	...	...
MAY.							NOVEMBER.							MAY.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
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JUNE.							DECEMBER.							JUNE.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
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## CALENDAR, 1899-1900.

Meetings of the University Council are held on the last Monday of September, and on the first Monday of other months. Meetings of the University College Council are held on the fourth Friday of September, and on the first Friday of other months. Meetings of the Senate are held on the second Friday of each month, and meetings of the Faculty of Medicine on the first Friday of each month from October to May, inclusive.

1899—Sept. 14—Supplemental Examinations in all Faculties begin.

Oct. 2—Academic year begins.

Registration of Students in Arts by the Registrar; and in Medicine by the Secretary of the Medical Faculty; enrolment in classes by the various Professors.

Oct. 3—Lectures in Arts and Medicine begin.

Dec. 18-21—Term Examinations.

Dec. 21—Michaelmas Term ends.

Dec. 25—University Buildings closed.

1900—Jan. 1—University Buildings closed.

Jan. 8—Easter Term begins.

Lectures in Arts and Medicine begin.

Feb. 28—University Buildings closed.

March 21—Annual Examinations in Dentistry begin.

April 9—Annual Meeting of Medical Faculty.

April 13—University Buildings closed.

April 14—Examinations in School of Practical Science begin.

April 17-20—Term Examinations.

April 20—Lectures in Arts end.

∫ Lectures in Medicine end.

May 1—Annual Examinations in Arts, Law, Medicine, and Agriculture begin.

Last day for presentation of M. A. Theses.

May 4—Annual Examinations in Applied Science begin.

May 10—Annual Examinations in Music begin.

May 24—University Buildings closed.

June 1—Applications for Fellowships.

June 8—University Commencement.

June 12—Senior Matriculation Examinations in Arts begin.

July 1—University Buildings closed.

N.B.—Candidates are required to give notice to the Registrar of intention to present themselves at the annual examinations in Arts at least six weeks before the commencement of the examinations. At the examination for Matriculation Scholarships similar notice must be given on or before the 24th May, and at any other University examination at least three weeks before the commencement of the examination.

### Time Table of Lectures in Arts.

NOTE.—In the following table \* indicates "Honor Subject"; † indicates "Hon. Chem. and Min.;" a indicates "Michaelmas Term"; and b "Easter Term." Numerals (1), (2), etc., denote the class-rooms of the main building. Subjects for which no class-rooms are indicated are provided for in the various buildings appropriate to them. Laboratory hours in upper years of Chem., (Chem., Min. and Phys., and Chem.) and in Psychol. will be arranged at the beginning of Term. School of Science students attend Math. Div. E. of the First year.

#### First Year.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.
9 a. m.	Biol. *Elem. Anal. Geom. (3).	English (W. Hall). Math. E., Euclid (4).	*German (13). Greek, b (6). Biol. Math. E., Trig. (4).	*Greek, b (11). Latin (9). Math. E., Alg. (4).	Biol. Math. E., Trig. (4).
10 a. m.	Math. (E. Algebra (4). (D. Trigonom. (3)).	*German (13). Chem., C. M., P. C. Physics (16).	Math. (A., B. (3). Euc. (C., D. (4)).	Physics (16).	Math. D., Alg. (4). E., Trig. (3).
11 a. m.	*Greek (7). Lat. Prose (3).	*Greek Prose (8). Chem. Math. (A., Alg. (4). Span. (15)).	Greek Prose (8). Chem.	*Classics (2). Chem. Math. C., Alg. (4) A. [Trig. (3)].	English (W. Hall).  German, D. (7). *Lat. Prose (8). *Elem. Phys., and Med., a (16). Phonetics (12).
12 m.	Anc. Hist. (9). *Elem. Phys., N. Sc. and Med., a (16). *Math. (6).	Greek (2). Ital. (12). *Math. (6).	Latin (3). Elem. Phys., a (16), N. Sc. and Med.	*Latin (2). *Ital. (12). *Math. (6).	German, D. (7). *Lat. Prose (8). *Elem. Phys., and Med., a (16). Phonetics (12).
2 p. m.	French, A. (9), B. (2). *Prac. Phys., P. C., C. M.	*French (2). *Prac. Biol. *Prac. Chem., C. M., P. C.	French, B. (3), C. (4). *German (10).	*French, A. (2), B. (8). *Prac. Biol. *Prac. Chem., C. M., P. C.	French, A. (2), C. (4). Prac. Phys., N. Sc.
3 p. m.	German, A. (9), B. (3). *German (10). *Prac. Phys., P. C., C. M.	German, D. (9). Hebrew (4). *Prac. Biol. *Prac. Chem., C. M., P. C.	*French (10). German, B. (3), C. (4).	German, C. (10). Hebrew (4). *Prac. Biol. *Prac. Chem., C. M., P. C.	German, A. (3), C. (4). Prac. Phys., N. Sc.
4 p. m.	*Prac. Phys., P. C., C. M.	*English (9). *Prac. Chem., C. M., P. C.		*Prac. Chem., C. M., P. C.	Hebrew (4). Prac. Phys., N. Sc.



CALENDAR FOR 1899—1900.

Second Year.

4 p.m.	*Prac. Phys., P.C., C.M. *English (9). *Prac. Chem., C.M., P.C.	*Prac. Chem., C.M., P.C.	*Prac. Chem., C.M., P.C. *Hebrew (4). *Prac. Phys., N. Sc.
9 a.m.	*French, A. (8), B. (2). *German (13), *Greek (6).	*English (3). *German, B. (2). *German (10).	*French, A. (9), B. (2). *Latin (7). *Elem. Calc. (3). *Logic (12).
10 a.m.	*Oriental (13). *Ital. (10). *Med. Hist. (9). *Physic (16).	*Latin (8). *Biol. *Ital. (10). *Med. Hist. (9).	*French (14). *Greek (8). *Phys. Chem.
11 a.m.	*Eng. Con. Hist. (12). *Hist. (9). *Philos. (11). *Phys. Chem.	*Greek Prose (8). *Chem. *Econom. (9). *Geol. *Philos. (11). *Span. (13).	*Classes (2). *French (14). *Chem. Geol. *Econom. (9). *Hist. (9). *Philos. (11). *Prac. Chem., N. Sc. *Span. (13).
12 m.	*Latin (3). *Latin (7). *Math. (11). *Physiol., b.	*Math. (11). *Psychol. (W. Hall). *Math. (11).	*Math. (11). *Prac. Chem., N. Sc. *Psychol. (W. Hall).
2 p.m.	*German (13). *Oriental (4). *Prac. Biol. *Prac. Chem., M.P.	*French, A. (14), B. (8). *Oriental (13). *Prac. Biol. *Prac. Phys., P.C., C.M.	*Lat. Prose (3). *Lat. Prose (8). *Oriental (2). *Math. (11). *Physiol., b.
3 p.m.	*French, A. (14), B. (13). *Hebrew (4). *Prac. Biol. *Prac. Chem., M.P.	*German (12). *Latin (7). *Prac. Min. gy.	*Greek (7). *Prac. Biol. *Prac. Phys., N. Sc.
4 p.m.	*Prac. Chem., M.P.	*German, A. (3). *Prac. Min. gy.	*German (13). *Prac. Biol. *Prac. Phys., N. Sc.

## Third Year.

9 a.m.	<ul style="list-style-type: none"> <li>*Ethics (4).</li> <li>*French (14).</li> <li>*Latin Prose (7).</li> <li>*Prac. Biol.</li> </ul>	<ul style="list-style-type: none"> <li>*German (13).</li> <li>*Latin (7).</li> <li>Hist. (9).</li> <li>*Con. Hist. (6).</li> </ul>	<ul style="list-style-type: none"> <li>Ethics (8).</li> <li>*French (14).</li> <li>*Prac. Biol.</li> </ul>	<ul style="list-style-type: none"> <li>French (10).</li> <li>*French (14).</li> <li>*Hist. of Philos. (8).</li> </ul>	<ul style="list-style-type: none"> <li>*Con. Hist. (6).</li> <li>Hist. (9).</li> <li>*Prac. Biol.</li> </ul>	
10 a.m.	<ul style="list-style-type: none"> <li>French (14).</li> <li>*French (12).</li> <li>*Hist. of Philos. (7).</li> <li>*Prac. Biol.</li> </ul>	<ul style="list-style-type: none"> <li>*French (12).</li> <li>*Greek Prose (2).</li> <li>Physics (10).</li> <li>*Prac. Biol.</li> </ul>	<ul style="list-style-type: none"> <li>*German (10).</li> <li>*Exper. Psych. (lect.).</li> <li>*Prac. Chem., N. Sc.</li> </ul>	<ul style="list-style-type: none"> <li>*French (14).</li> <li>*Econom. (6).</li> <li>*Exper. Psych. (lect.).</li> </ul>	<ul style="list-style-type: none"> <li>*Greek (13).</li> <li>*Econom. (6).</li> <li>*Prac. Biol.</li> <li>*Prac. Chem., N. Sc.</li> </ul>	<ul style="list-style-type: none"> <li>*Greek (13).</li> <li>*Econom. (6).</li> <li>*Prac. Biol.</li> <li>*Prac. Chem., N. Sc.</li> </ul>
11 a.m.	<ul style="list-style-type: none"> <li>*German (10).</li> <li>Greek (8).</li> <li>Physics.</li> <li>*Prac. Biol.</li> <li>*Rom. Law (6).</li> </ul>	<ul style="list-style-type: none"> <li>*Exper. Psych. (lect.).</li> <li>*Prac. Chem., N. Sc.</li> <li>*Rom. Law (6).</li> </ul>	<ul style="list-style-type: none"> <li>*Ethics (4).</li> <li>*German (13).</li> <li>Latin (2).</li> <li>*Latin (7).</li> <li>*Rom. Law (6).</li> </ul>	<ul style="list-style-type: none"> <li>*German (10).</li> <li>*Greek (7).</li> <li>*Phys. Chem.</li> <li>*Rom. Law (6).</li> </ul>	<ul style="list-style-type: none"> <li>*Classics (2).</li> <li>*French (15).</li> <li>*German (13).</li> <li>*Phys. Chem.</li> <li>*Prac. Chem., N. Sc.</li> <li>*Rom. Law (6).</li> </ul>	<ul style="list-style-type: none"> <li>*Classics (2).</li> <li>*French (15).</li> <li>*German (13).</li> <li>*Phys. Chem.</li> <li>*Prac. Chem., N. Sc.</li> <li>*Rom. Law (6).</li> </ul>
12 m.	<ul style="list-style-type: none"> <li>English (4).</li> <li>*Greek (7).</li> <li>*Prac. Biol.</li> </ul>	<ul style="list-style-type: none"> <li>*German (13).</li> <li>*Latin (7).</li> <li>Con. Hist. (9).</li> <li>*Geol.</li> <li>*Exper. Psych. (prac.).</li> <li>*Prac. Chem., N. Sc.</li> </ul>	<ul style="list-style-type: none"> <li>English (4).</li> <li>Latin (7).</li> <li>*Geol. or Min.</li> <li>*Physics. (6).</li> </ul>	<ul style="list-style-type: none"> <li>*English (3).</li> <li>Greek (7).</li> <li>*Geol. or Min.</li> <li>*Org. Chem.</li> </ul>	<ul style="list-style-type: none"> <li>*Gr. Prose (5).</li> <li>Lat. Prose (8).</li> <li>*Orientals (10).</li> <li>*Org. Chem.</li> <li>*Prac. Chem., N. Sc.</li> <li>*Physics (9).</li> </ul>	<ul style="list-style-type: none"> <li>*Gr. Prose (5).</li> <li>Lat. Prose (8).</li> <li>*Orientals (10).</li> <li>*Org. Chem.</li> <li>*Prac. Chem., N. Sc.</li> <li>*Physics (9).</li> </ul>
2 p.m.	<ul style="list-style-type: none"> <li>*French (14).</li> <li>*Orientals (11).</li> <li>Ch. Hist. (6).</li> <li>*Prac. Biol.</li> <li>*Prac. Phys.</li> </ul>	<ul style="list-style-type: none"> <li>*German (10).</li> <li>Hebrew (13).</li> <li>Ital. (15).</li> <li>*Prac. Chem., N. Sc.</li> </ul>	<ul style="list-style-type: none"> <li>*Hist. (9).</li> <li>*Prac. Biol.</li> <li>*Prac. Min.</li> <li>*Prac. Phys.</li> </ul>	<ul style="list-style-type: none"> <li>German (10).</li> <li>*Orientals (11).</li> <li>Ital. (15).</li> <li>*Prac. Geol.</li> </ul>	<ul style="list-style-type: none"> <li>Hebrew (13).</li> <li>Hist. (9).</li> <li>*Prac. Chem., N. Sc.</li> </ul>	<ul style="list-style-type: none"> <li>Hebrew (13).</li> <li>Hist. (9).</li> <li>*Prac. Chem., N. Sc.</li> </ul>
3 p.m.	<ul style="list-style-type: none"> <li>*English (12).</li> <li>*Org. Chem.</li> <li>*Prac. Biol.</li> <li>*Prac. Phys.</li> </ul>	<ul style="list-style-type: none"> <li>*Orientals (11).</li> <li>*Con. Law (6).</li> <li>*Org. Chem.</li> <li>*Span. (15).</li> <li>*Prac. Chem., N. Sc.</li> </ul>	<ul style="list-style-type: none"> <li>*Con. Law (6).</li> <li>*Prac. Min.</li> <li>*Prac. Phys.</li> </ul>	<ul style="list-style-type: none"> <li>*Prac. Geol.</li> <li>*Span. (15).</li> </ul>	<ul style="list-style-type: none"> <li>*English (10).</li> <li>*Ethics (11).</li> <li>*Orientals (14).</li> <li>*Org. Chem.</li> <li>*Prac. Chem., N. Sc.</li> </ul>	<ul style="list-style-type: none"> <li>*English (10).</li> <li>*Ethics (11).</li> <li>*Orientals (14).</li> <li>*Org. Chem.</li> <li>*Prac. Chem., N. Sc.</li> </ul>
4 p.m.	<ul style="list-style-type: none"> <li>Int. Law (6).</li> <li>*Prac. Phys.</li> </ul>	<ul style="list-style-type: none"> <li>*Geol.</li> <li>*Phys. Chem., N. Sc.</li> <li>*Prac. Chem., N. Sc.</li> </ul>	<ul style="list-style-type: none"> <li>*Prac. Biol.</li> <li>*Prac. Min.</li> <li>*Prac. Phys.</li> </ul>	<ul style="list-style-type: none"> <li>*Ethics (4).</li> <li>*Phys. Chem., b.</li> <li>*Prac. Min.</li> </ul>	<ul style="list-style-type: none"> <li>*Prac. Chem., N. Sc.</li> </ul>	<ul style="list-style-type: none"> <li>*Prac. Chem., N. Sc.</li> </ul>

Fourth Year.

9 a.m.	* <i>Lat. Prose</i> (7). *Hist. (9). *Math. (13). *Physiol. Chem.	* <i>French</i> (12). * <i>Latin</i> (8). * <i>Orientalists</i> (11). *Emb'gy & Hist. Hist. of Philos. (2). *Math.	* <i>German</i> (11). *Hist. of Philos. (5). *Math. *Physiol. Chem.	* <i>Ethics</i> (5). *Astron. (6). *Exper. Psych., N. Sc. *Hist. (12). *Hist. of Philos. (3). *Math.	* <i>Classics</i> (8). * <i>English</i> (2). *Math.
10 a.m.	* <i>English</i> (11). *Hist. of Philos. (6). *Phys. Chem. *Physiol. Chem. *Physics (8). *Phys. Chem.	* <i>Ethics</i> (5). * <i>French</i> (11). <i>Latin</i> (4). * <i>Greek</i> (2). *Phys. Chem. *Physiol. Dens.	* <i>Ethics</i> (5). * <i>French</i> (15). <i>Gk. Prose</i> (2). * <i>Greek</i> (7). *Physiol. Chem.	* <i>Ang.-Sax.</i> (10). <i>French</i> (12). * <i>Latin</i> (7). *Exper. Psych., N. Sc. *Hysl. Dens. *Phys. *Prac. Chem., N. Sc.	* <i>Latin</i> (7). *Emb. & Hist. Hist. of Philos. (8). *Ital. (11). *Phys. Chem. *Phys.
11 a.m.	* <i>English</i> (4). * <i>Orientalists</i> (13). *Exper. Psych., N. Sc. *Metaph. (14). *Physiol.	* <i>English</i> (12). * <i>Latin</i> (7). Economics (9). *Physiol. Dens.	<i>Latin</i> (2). * <i>French</i> (12). *Span. (15). *Physiol.	* <i>Metaph.</i> (13). *Metaph. (1'psc. Dep.). *Physiol. Dens. *Prac. Chem., N. Sc.	* <i>Ang.-Sax.</i> (10). * <i>Classics</i> (2). * <i>French</i> (11). * <i>French</i> (8). * <i>French</i> (15). *Metaph. (7). *Physiol.
12 m.	* <i>German</i> (13). * <i>Greek</i> (8). <i>Hebrew</i> (15).	* <i>German</i> (10). <i>Greek, b</i> (4). <i>Latin</i> (8).	* <i>English</i> (10).	* <i>German</i> (13). * <i>Greek</i> (Dep. Lib.). *Prac. Chem., N. Sc.	* <i>Gk. Prose</i> (5). * <i>German</i> (13). <i>Lat. Prose</i> (8). * <i>Orientalists</i> (15). *Assaying.
1 p.m.	*Min. or Geol.	*Min. or Geol.	*Min. or Geol.	*Assaying.	
2 p.m.	*Con. Law (6). *Ital. (15).	<i>German</i> (10). *Con. Law (6).	* <i>Old English</i> (7). *Prac. Chem., N. Sc.	* <i>Greek, a</i> (8). *Assaying.	
3 p.m.	*Econom. (8). *Span. (15).	*Econom. *Min. or Geol.	* <i>Orientalists</i> (11). *Econom. *Min. or Geol. *Econom. (8).	* <i>Ethics</i> (8). * <i>German</i> (12). *Econom. (8). *Assaying.	
4 p.m.	*Org. Chem.	<i>German</i> (11). *Hist. of Chem. *Min. or Geol. *Int. Law.	* <i>Con. Hist.</i> (6).	* <i>German</i> (10). *Min. or Geol. *Prac. Chem., N. Sc.	*Assaying. *Org. Chem.



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- Mineralogy, and Geology*: A. P. COLEMAN, M.A., PH.D.; W. A. PARKS, B.A.

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*Pathology*: J. A. AMYOT, M.B.  
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*Physiology*: R. R. BENSLEY, B.A., M.B.

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*Medical Jurisprudence*: W. J. GREIG, B.A., M.B.  
*Medical Psychology*: W. B. THISTLE, M.D.  
*Chemistry*: F. J. SMALE, B.A., Ph.D.  
*Physics*: C. A. CHANT, B.A.  
*Physiology, Embryology, and Histology*: R. R. BENSLEY, B.A., M.B.  
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*Strength of Materials*: J. A. DUFF, B.A.  
*Mortars, and Cements*: C. H. C. WRIGHT, B.A.Sc.



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*Operative Dentistry*: S. MOYER, D.D.S.  
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*Botany (including Vegetable Histology)*: F. C. HARRISON, B.S.A.  
*Zoology (including Animal Histology)*: J. MCCRAE, B.A.  
*Geology*: A. P. COLEMAN, M.A., PH.D.  
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*School Organization and Management, and Methods in Classics*: J. WAUGH,  
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*Methods in Moderns and History*: A. W. BURTZ, B.A.  
*Methods in Mathematics*: A. T. DELURY, B.A.  
*Methods in Science*: W. S. ELLIS, B.A., B.Sc.

**Doctor of Philosophy.**

- A. B. MACALLUM, M.A., M.B., PH.D.

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### Organization of the University.

The management of the finances and academic business of the University is intrusted to the Crown, the Board of Trustees, the Senate, Convocation, the University Council, and the Council of University College. The functions of these various bodies are defined in the following paragraphs:—

I. THE CROWN.—The supreme authority in all matters is vested in the Crown. The Lieutenant-Governor of Ontario is the Visitor of the University and of University College on behalf of the Crown, and his visitatorial powers may be exercised by commission under the Great Seal. All the property of these institutions is vested in the Crown, in trust, and is managed and administered by the Bursar, who is an officer of the Crown. Annual appropriations are made on the authorization of the Lieutenant-Governor in Council. All expenditures of

endowment are similarly authorized, subject to ratification by the Legislative Assembly. The Crown exercises also a veto power as to statutes of the Senate and enactments and regulations of the Councils. Appointments in the University and University College are made by the Crown after such examination, inquiry and report as are considered necessary.

2. THE BOARD OF TRUSTEES.—The Board of Trustees consists of ten members, viz., the Chancellor, the Vice-Chancellor, the President of University College, *ex officio*; five members elected by, but not necessarily members of, the Senate of the University of Toronto; and two members elected by, but not members of, the Council of University College. This board has general advisory powers with regard to the management and disposition of the endowments and income of the University and College, subject to the control of the Crown. In the discharge of its functions the Board makes recommendations regarding the investment of the funds, the leasing of University properties, the letting of contracts, and exercises a general superintendence over the University property as to insurance of buildings, etc.

3. THE SENATE.—The Senate consists of three classes of members: (1) *Ex officio* members; (2) Appointed members; and (3) Elected members. The *ex officio* members are the Minister of Education, the President of University College, the president or head of each federated university or college, the present Chancellor and Vice-Chancellor, and all past Chancellors and Vice-Chancellors. The appointed members consist of three representatives from the Council of the University of Toronto, one from the Council of University College, one from the Law Society of Upper Canada, one from each federated or affiliated institution (subject, however, in the latter case to certain restrictions), and nine members appointed by the Lieutenant-Governor in Council. The elected members at present number twenty-five, and represent the graduates of the University of Toronto in Arts (twelve members), in Medicine (four members), in Law (two members), the graduates of the federated University of Victoria (five



members), and the High School teachers of the Province (two members)—the graduates in Medicine and Law of Victoria University voting along with the graduates of the University of Toronto in the same faculties.

The body thus composed is renewed once in three years, when all except the *ex officio* members must retire, being eligible, however, for re-appointment or re-election. The chairman of the Senate is the Chancellor, who is the elected representative of the whole body of graduates, or in his absence the Vice-Chancellor, who is elected by the Senate from among its members at its inaugural meeting after the triennial dissolution.

The functions of the Senate regard the general management of the business of the University, the prescription of curricula in the various faculties and schools, the examinations for degrees, scholarships, prizes, and certificates of honor, the granting of degrees, the levying of fees for examination and degrees, and the promotion of the welfare of the University in cases not otherwise provided for by law. The Senate is also required to report annually to the Lieutenant-Governor on the general condition and progress of the University, and has power to inquire and report concerning the conduct, teaching, and efficiency of members of the Faculties of the University of Toronto and of University College.

4. CONVOCATION.—Convocation consists of the whole body of graduates of the University, in all faculties. Except indirectly through its elected representatives, no part of the management of the University is exercised by it as a whole. It elects the Chancellor, and, in divisions according to faculty, it elects members of Senate as its representatives in Arts, Medicine, and Law. Any question relating to University affairs may be discussed by it, and a vote taken. The result of such discussion is communicated to the Senate, which must consider the representation made, and return to Convocation its conclusion thereon.

5. THE UNIVERSITY COUNCIL.—This body consists of the President (who is also President of University College) and



the Professors of the University in Arts and Medicine. The Council has full powers with reference to all instruction in the Faculties of Arts and Medicine in the University, the discipline of all students and student societies or associations in these faculties, and the control of all officers and servants. Laboratory fees are also determined by the Lieutenant-Governor in Council on report of the University Council.

6. THE COUNCIL OF UNIVERSITY COLLEGE.—This body is composed of the President, the Professors in University College, and the Dean of the University College Residence for the time being. The Council of University College has authority over the students of University College, control of the servants, and power to regulate registration fees, and fees for occasional students in University College subjects. Its functions are, however, more extensive, than those of the corresponding governing body of the University of Toronto, notably as to its constitution as a corporation with a common seal, with power to hold property: All students in Arts are enrolled in University College, or in a federated University.



## GENERAL INFORMATION FOR STUDENTS IN ARTS.

### Degrees.

The degree of Bachelor of Arts is conferred on those persons who have completed the prescribed courses of study, and passed the required examinations. The courses of study extend over a period of four years, and are divided into General and Honor courses. A corresponding distinction is made in the degree conferred. Attendance on lectures is compulsory, unless a dispensation is granted owing to special circumstances. The degree of Master of Arts is conferred on Bachelors of Arts of at least one year's standing, on the presentation of an approved thesis in one of the departments of study in Arts. Provision is also made for admission *ad eundem gradum* in the case of both degrees. The curriculum of study prescribed for the degree of Bachelor of Arts will be found on pp. 67-115. For further details, see also pp. 116-142. The degree of Doctor of Philosophy is conferred upon Bachelors of Arts of at least two years' standing, who have complied with the requirements prescribed by the Senate, see p. 194.

### Entrance.

Candidates for the degree of Bachelor of Arts may enter this Faculty either by Junior Matriculation or Senior Matriculation (the examination of the First year). The certificate of the Department of Education is accepted *pro tanto* at both of these examinations. The subjects of Latin; English; History; Mathematics; and any two of Greek, French, German, Elementary Experimental Science, are required of all candidates at Junior Matriculation. The subjects of English; Latin; any two of the following languages, viz., Greek, French, German, Hebrew; Ancient History; Mathematics; and Physics or Biology are

required of all candidates at Senior Matriculation. Additional work in the various subjects is prescribed for honor standing. The Junior Matriculation examination for the Province of Ontario is held in July, and applications must be sent to the Education Department before 24th May. A Junior Matriculation examination is also held in June, at various centres outside the Province of Ontario (see below). The Senior Matriculation examination is held in May and June, and Supplemental examinations for both Junior and Senior Matriculation are held in September, applications for all such examinations being sent to the Registrar of the University of Toronto. All applications must be accompanied by the prescribed fee, namely, two dollars for Part I. of the Junior Matriculation examination, five dollars for Part II. (or five dollars for the whole examination in case Parts I. and II. are taken at the same time), fifteen dollars for Senior Matriculation. Provision is also made for admission *ad eundem statum*, the fee being ten dollars. The July Junior Matriculation examination is held at the University of Toronto and at the various High Schools and Collegiate Institutes throughout the Province of Ontario. The June Junior Matriculation examination is held at such centres outside the Province of Ontario as may be determined from time to time. The May Senior Matriculation examination is held at the University of Toronto, and the June Senior Matriculation examination is held at the University of Toronto and at such other centres as may be determined from time to time. The Supplemental examinations are held at the University of Toronto only. For details see p. 57, etc.

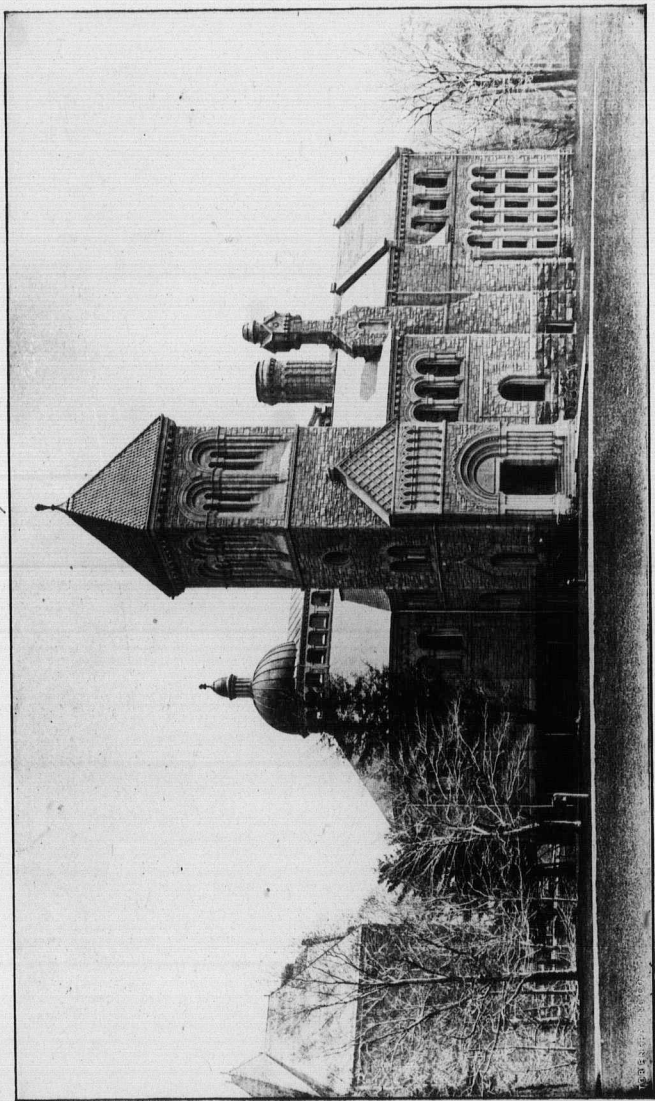
#### **Examinations.**

In addition to the Matriculation examination mentioned above, candidates proceeding to the degree of Bachelor of Arts are required to pass an annual examination, held in the month of May, in all the subjects of their course of study. In the First and Second years a report is required from the professor or lecturer in all subjects of the General course, except Chem-

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istry, Natural Science, and Physics, based upon the attendance of candidates and their proficiency during the year. This report is incorporated with the results of the May examination, of which it constitutes an essential part. Candidates for honors in Physics, Chemistry, Biology, Mineralogy and Geology, and Psychology, before proceeding to the annual examination, must present a certificate of having attained honor standing in the practical work of the subject during the year. For details see pp. 60-66.

### Instruction.

Instruction is given in the various subjects of the Arts course by the Arts Faculty of the University of Toronto, the Faculty of University College, and the Arts Faculty of Victoria University. In the division of the work of instruction between these faculties the subjects are assigned as follows:— To the Faculty of the University of Toronto: Mathematics, Physics, Mineralogy and Geology, Biology, Chemistry, History of Philosophy, Logic and Metaphysics, Comparative Philology, Phonetics, Italian, Spanish, Modern History, Political Economy and Constitutional History, Constitutional and International Law, Roman Law, General Jurisprudence, and History of English Law; and to the Faculty of University College, as also to that of Victoria University: Latin, Greek, Ancient History, English, French, German, Oriental Literature, Ethics. Instruction in certain options allowed to theological students of federated institutions is given in Victoria University, Knox College, Wycliffe College, and St. Michael's College. St. Michael's College also co-operates with the University in the work of instruction in Modern History and Philosophy.

### Discipline.

All students attending courses of instruction in the University of Toronto or University College are responsible to the Councils for proper and orderly conduct within the University class-rooms, buildings, and grounds. The Councils have autho-

city to impose fines, to levy assessments for damages done to property, to inflict at their discretion the penalties of suspension or expulsion, and to use all other appropriate means of discipline. For the regulations relating to the College Residence, see Appendix.

### **Religious Worship.**

Prayers are offered daily at 10 a.m. Attendance is not compulsory, but all those who have no conscientious scruples are expected to be present. Under similar regulations in the University College Residence prayers are offered at 8.10 a.m., and at 6.30 p.m.

### **The Library.**

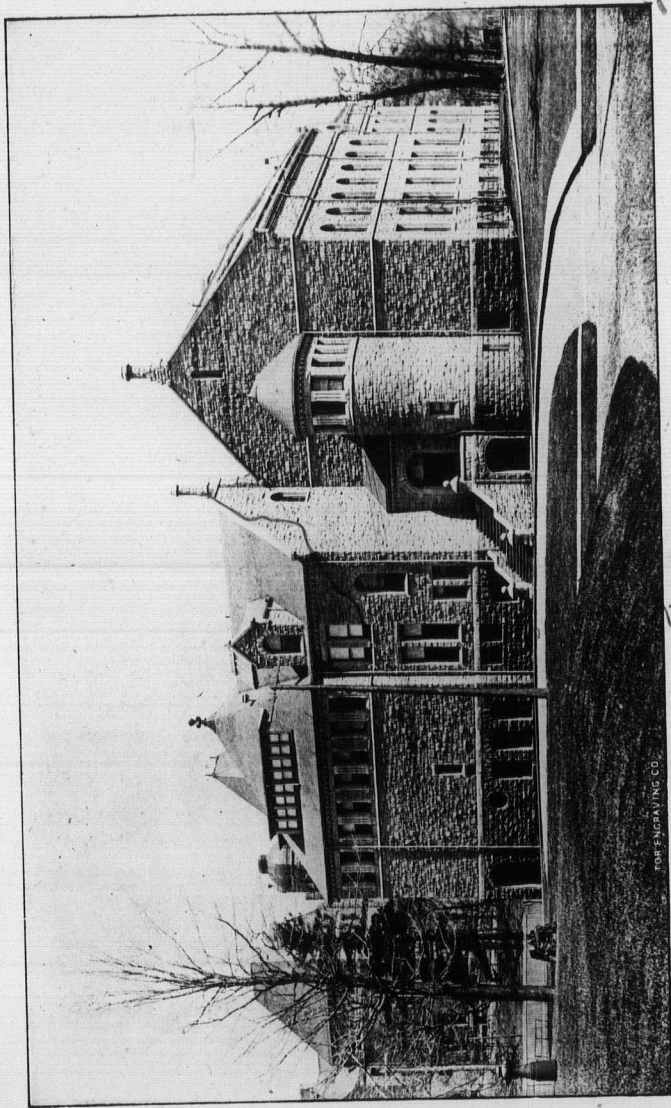
The University Library occupies a separate building erected almost wholly by private benefaction, and completed in 1892. Besides a fire-proof book-room with a storage capacity of 100,000 volumes, it contains a reading-room capable of seating upwards of 200 readers, a periodical-room, seven departmental libraries, offices, cloak-rooms, and conversation-rooms. The building is heated by steam throughout, thoroughly ventilated, and supplied with electric light. The library contains at present upwards of 63,000 volumes, together with upwards of 6,000 unbound pamphlets. It is provided, as far as the income permits, with the standard and current literature of all subjects taught in the University. In the departments of the natural and physical sciences it includes the principal journals and transactions of societies. In the departments of language and literature, the works of all authors of primary or secondary importance from the origins of each literature to the present time are available, as well as the principal philological and literary periodicals. Corresponding facilities are provided in the departments of philosophy, history and political science. The library is a circulating one for members of the Faculty, and a library of reference for students. The latter, however, are allowed under certain conditions the use of books at home outside of library hours, and students engaged in special work,

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which requires the consultation of books of reference, are allowed access to the stack-room by the librarian on the recommendation of the professors. The departmental libraries are in charge of the professors in each department, and contain special reference collections of books. These rooms are used for the instruction of advanced students, who may at the discretion of their professors use the rooms and the books contained in them for private study. The conversation-rooms, situated in the basement, are intended for the use of students who wish to withdraw for the purpose of discussion or combined study, to avoid disturbance of the reading-room proper, where absolute quiet must be observed. Besides the general library, there is also a special biological library, situated in the Biological Building, and containing all the biological texts commonly used by the students and staff in the practical work of the biological laboratories.

#### Laboratories.

The Physical Laboratory, established in 1878, is situated in the Western part of the main University Building, and consists of a set of rooms for elementary work, together with a number of special laboratories. The apparatus in the former is suitable for preliminary exercises in reading and constructing scales, and for the simpler experiments in Mechanics, Geometrical Optics, Heat, Sound, and Electricity. The special laboratories are equipped for the use of advanced Arts students taking the honor course in Physics, and for senior students in Engineering. The collection of apparatus includes balances by Collot and Cœrtling, cathetometer and dividing engine by Dumoulin-Froment, comparator by Troughton and Sims, clock by Dent, chronograph and clock-fork by Kœnig, exhaustion and compression pumps by Bianchi, Golaz, Alvergriat, and Carré. In the Heat Laboratory the collection includes the Golaz apparatus designed to repeat the classical experiments of Regnault. The equipment of the Acoustical Laboratory is exceptionally complete, and includes all the more important instruments constructed by Kœnig,

amongst them being the large forks with which his original experiments on beats were made. The Optical Room is provided with heliostat by Duboscq, Jamin's universal circle with accessories by Lutz, Gouy's spectroscope by Lutz, optical bench for diffraction and interference experiments by Lutz, Norremberg's polariscope, microscopes by Natchet and Zeiss, etc. The Electrical Laboratory is furnished with electrometers, galvanometers, resistance coils, magnetometer, dip-circle, voltmeters, ammeters, etc., for the most part constructed by Carpentier of Paris. The Laboratory is also well equipped for photographic work and for the ordinary operations of glass-blowing. In connection with the Laboratory is a well-equipped workshop in charge of a skilled mechanic who makes the necessary repairs, and constructs many of the new instruments added to the collection. Special arrangements may be made by graduate students for pursuing original investigations in the Laboratory.

The Psychological Laboratory, which was established in 1892, is situated in the west wing of the main University Building, in close proximity to the Physical Laboratory, the apparatus of which is available for some of the work in Psychology. The Laboratory is well equipped for investigations in Psychophysics, Psychological Optics and time relations of mental phenomena. There is in connection with the Laboratory a small library containing the periodicals and the special literature of Experimental Psychology. On account of the increased number of undergraduates and graduates in the Philosophical Department, and especially in order to facilitate the independent research of the graduates, it has been found necessary to extend the Psychological Laboratory by the addition of the rooms adjoining the Ethnological Museum.

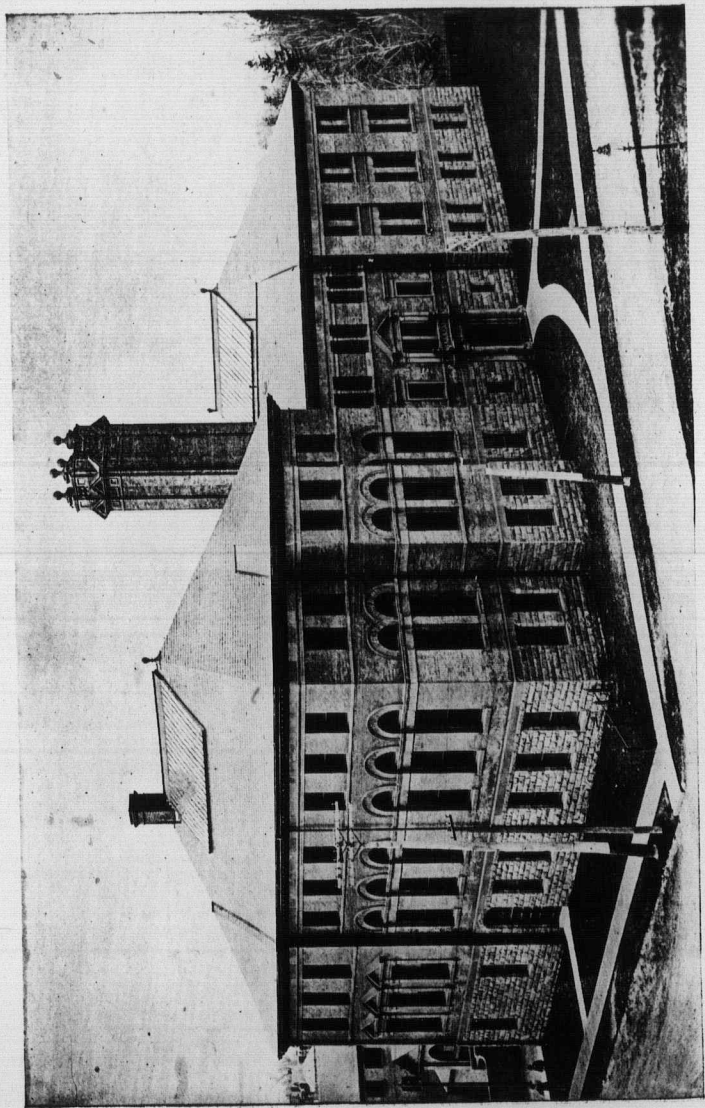
The Biological Building contains laboratories both for general and special work. On the ground floor are laboratories for Physiology and Physiological Chemistry. On the first floor there are, in addition to the large laboratory for general purposes, laboratories for Morphology, Bacteriology, Physiological

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Botany, a photographic room, and a store-room for chemical re-agents. The large laboratory mentioned above is used for the practical instruction of students of the First and Second years in Arts and Medicine. The Morphological Laboratory for students of the Third year has accommodation for twenty-two students, while for students of the Fourth year accommodation is furnished in the two large laboratories of the ground floor, one of which, specially designed for Physiology, is at present used also for morphological work, and the other fitted up for practical instruction in Physiological Chemistry. The Morphological Laboratories are provided with microscopes and all apparatus used by the students in morphological work, and they contain, stored in glass cases, a large number of models and museum preparations for the illustration of animal and vegetable Morphology. The Bacteriological Laboratory is provided with apparatus to illustrate the Biology of Bacteria. The Physiological Laboratory is provided with a fairly complete outfit of apparatus for demonstrations in Physiology. This apparatus is used for illustrating the lectures in Physiology delivered to the students of the First and Second years in Arts and Medicine, but is also employed by students in advanced Physiology (of the Fourth year Arts) in repeating for themselves all the important experiments dealt with in the advanced lectures on the subject. The apparatus for lecture purposes includes a projection microscope by Zeiss for electric light. The photographic room in connection with the laboratories is supplied with all the apparatus used in photography as applied to the various kinds of biological work.

The Chemical Building was completed in 1895. It contains, in addition to two lecture-rooms with accommodation for 300 and 100-students respectively, special laboratories for qualitative analysis, quantitative analysis, organic preparations, physical chemistry, gas analysis, combustion and furnace operations, and for the prosecution of original investigation. The total number of working places in these laboratories exceeds 200.

The Laboratory for Mineralogy and Geology is accommodated temporarily in the west wing of the Biological Building. Assay-furnaces and other appliances for the practical work of the Department are provided.

### Museums.

The University Biological Museum forms the central portion of the Biological Building. The equipment of the Museum is now so far advanced as to permit of its being opened to the public. It is primarily intended as an educational Museum for the students taking biology as part of their University work, and is arranged in such a way as to facilitate the most elementary as well as the most advanced studies. Each specimen is furnished with a printed label indicating the most salient points which it is designed to illustrate, but it is anticipated that the Museum will also be of great interest to the general public.

The public entrance to the Museum is approached from the west façade of the Biological Buildings, while the students gain access to the rooms through the eastern wing, in which the laboratories are situated. The interior of the Museum, which occupies two floors, is sub-divided into four rooms, seventy-five by twenty-five feet in size, amply lighted by handsome windows on the north and south sides. Three of these rooms are devoted to Animal Biology, while the fourth, which is to be arranged for the illustration of Vegetable Biology, is temporarily fitted up for the accommodation of the Ferrier collection of minerals.

The public entrance opens into the north ground floor room, the wall cases in which contain stuffed specimens of the various orders of Mammals, while the free-standing cases between the windows illustrate the comparative anatomy and development of that class. All the show cases are constructed of iron and plate glass, those destined for the exhibition of smaller specimens standing on wooden storage cases, built of cherry and cedar, and containing skins and other specimens for private

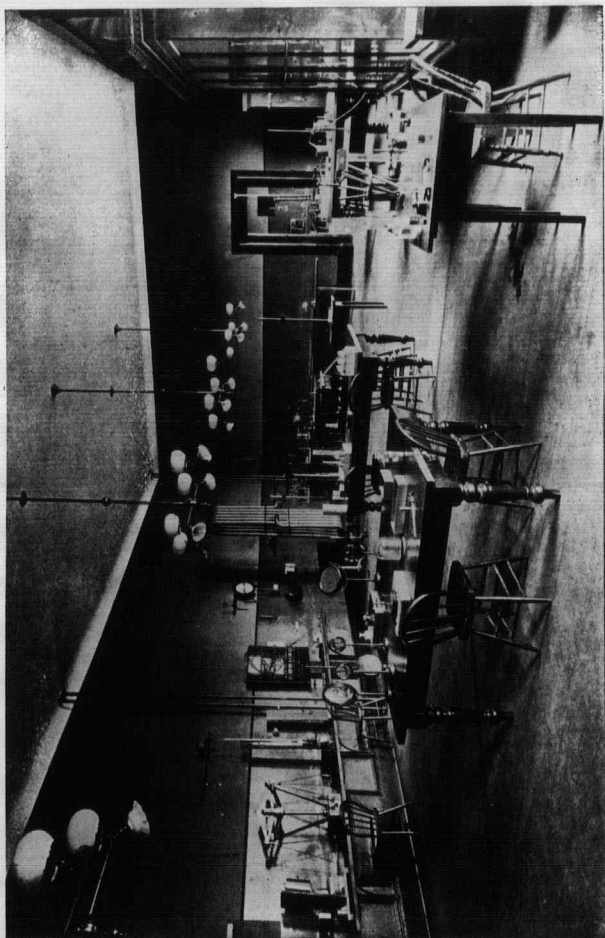
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study. The south ground floor room is devoted to the remaining vertebrate classes, the wall cases containing stuffed specimens of birds, reptiles, batrachians and fishes, and the smaller cases between the windows containing specimens illustrating the comparative anatomy and development of these classes.

A handsome staircase decorated with busts of distinguished biologists connects the ground floor with the first floor; a number of wall cases in ascending series contains a small collection of fossils from all parts of the world, as a graphic illustration of the relative position of the fossiliferous strata, and of their characteristic remains.

The Ethnological Museum is situated in the second story of the main University Building. It contains that part of the ethnological collection which was saved from the fire of 1890, together with the additions which have been made since that time. There is a fair collection of skulls, including ancient Egyptian and Roman skulls and models of the Neanderthal, Cro-Magnon, and other famous skulls. There are also interesting paleolithic implements from the English and French Drift, and the beginning of a good collection of stone implements from various parts of Canada. As the aborigines of this country are rapidly disappearing, it becomes increasingly important to preserve as many objects as possible illustrating their ethnological characteristics. Many friends of the University are in a position to contribute to the ethnological collection, and it is hoped that they will do what they can to aid in its completion.

#### University Publications.

Under the general title of "University of Toronto Studies," a publication in the interests of scholarship and research has been begun, containing selected papers by members of the University. It is supported by a small grant from the provincial government. The committee of management represents the Faculties of the University, University College, Victoria University, and the School of Practical Science. The President of

the University is Chairman of the committee, and the Librarian is general editor of the publication. Each series is under the special editorship of the professor to whose department the series relates, and his name is the guarantee of the value and originality of the papers published on his recommendation. From the nature of the publication, there is no regularity of issue, but as papers are accepted and recommended for publication, they are published to the extent of the funds available, without regard to any consideration except that of their value as contributions to the literature of learning.

For list of studies published to May, 1899, see Appendix, p. 29.

#### **Public Lectures.**

In addition to the regular courses of instruction, a number of public lectures on special subjects of interest are delivered annually under the auspices of the University, on Saturday afternoons, by members of the Faculty and others whose services are given voluntarily in this work. The lectures cover a large variety of topics, and those delivered hitherto have been numerously attended by the public, as well as by the students of the University. For the list of subjects and lectures during 1898-99, see Appendix, p. 31.

#### **Scholarships, Prizes and Medals.**

A large number of scholarships are awarded upon the result of competitive examinations, both in the University of Toronto and in University College. Through the generosity of the Chancellor, Mr. Edward Blake, and others, twenty-nine scholarships are offered annually at Matriculation for proficiency in the subjects of the examination on the whole, and also for proficiency in one or more branches of learning. In nearly all cases these scholarships include free tuition throughout the undergraduate course, being made dependent, however, upon the maintenance of a certain standard of scholarship by the winner after Matriculation. With the exception of one scholarship with special conditions, they range in value from \$105 to \$230.

In addition to the above, various undergraduate scholarships are offered for competition in Classics, Modern Languages, Mathematics, Physics, Philosophy, Natural Science, Chemistry and Mineralogy, and Political Science. These scholarships range in value from \$50 to \$75, and are tenable for one year. A scholarship of \$60 in Political Economy, and one of £150 sterling in either Physics or Chemistry, are offered for post-graduate competition, the former annually and the latter every second year. Prizes in books are offered in English, French, Italian, Chemistry, and Mineralogy and Geology. Medals are also awarded in Classics, Modern Languages, Natural Science, in the work of the General Course, and in certain of the Honor departments with English. For details, see pp. 47-56.

#### Fellowships.

Tutorial Fellowships are offered in Mathematics, Chemistry, Biology and Political Science. They are of the value of \$500, and are open to graduates of the University only. The Fellows are appointed annually, and are eligible for reappointment for a period not exceeding three years in all. Fellowships are also offered in Political Science and Philosophy. For details, see p. 56.

#### Student Societies.

Various societies and associations, both of young men and of young women, have been organized for the promotion of Christian effort, social intercourse, literary and scientific activity. The Young Men's Christian Association has a building especially devoted to its purposes, in which a devotional meeting is held every Thursday, and a public meeting every Sunday, at which latter addresses are delivered by prominent Christian workers. There is also a Young Women's Christian Association which meets weekly. The Literary and Scientific Society, whose membership is made up of male students, holds weekly meetings for discussion, the reading of essays, etc. This society furnishes a well equipped reading-room for the use of students.



The Women's Literary Society has similar aims and methods. Besides the above, there are several associations for the encouragement of special branches of study. These are the Classical Association, the Modern Language Club, the Mathematical and Physical Society, the Natural Science Association, and the Political Science Club. Clubs have also been organized for the cultivation of musical talent, athletics, etc. A paper devoted to literature and college news is published weekly, its staff consisting of representatives from various sections of the undergraduate body. An annual literary publication is issued by a committee of the women students. For lists of officers of the various societies, see Appendix, p. 34.

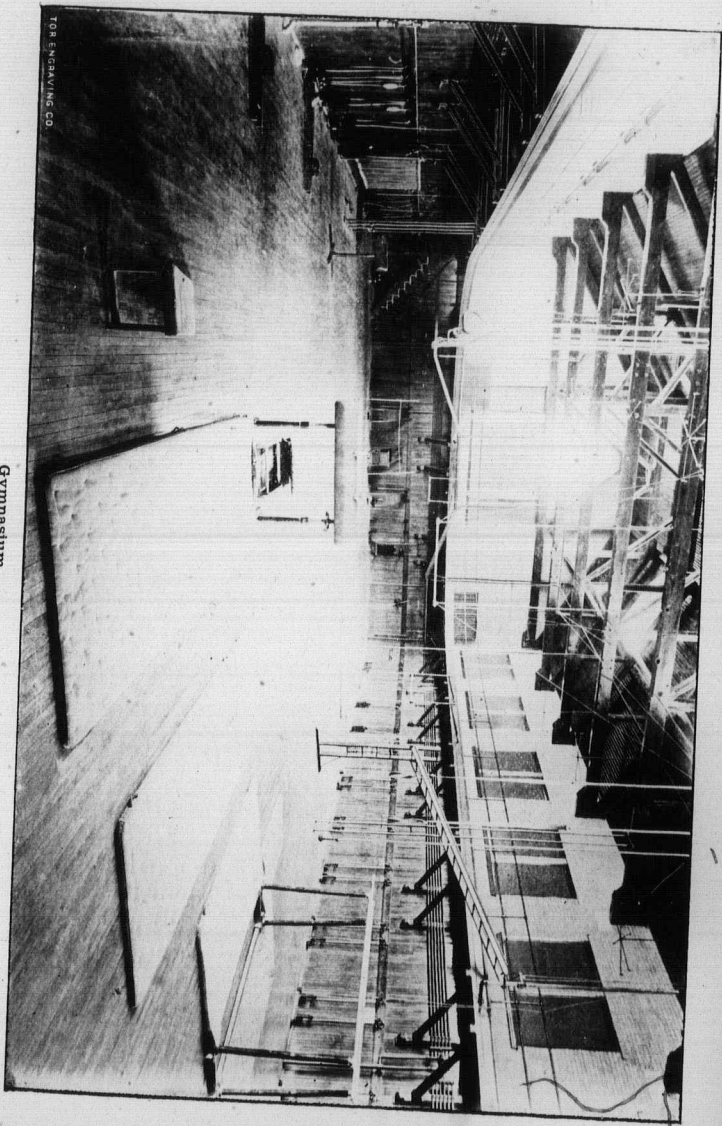
#### Gymnasium and Athletic Grounds.

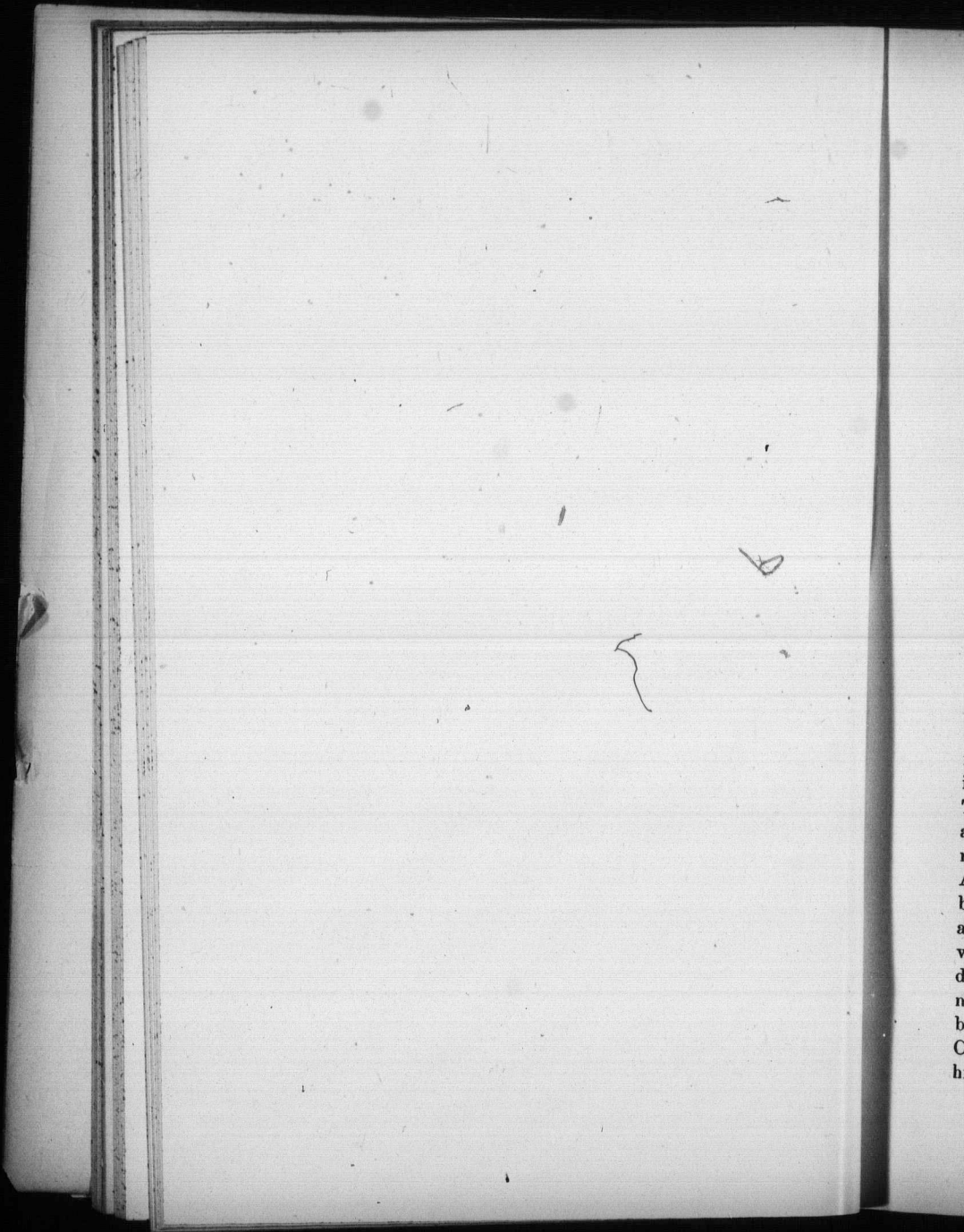
The University Gymnasium was completed and equipped in 1893. It is fully provided with the best and most modern appliances for physical culture, and contains a running track, shower baths and swimming bath, besides the necessary dressing-rooms and other conveniences. A competent instructor in Gymnastics is in constant attendance to superintend and direct the exercises of students. In addition to the lawn in front of the main University Building and the campus in the rear, a large plot of ground on Devonshire Place has been prepared and set apart as an Athletic Field. By this addition the facilities for football, cricket, tennis and other out-door athletic sports are doubled, as compared with previous accommodation; and by these grounds, in conjunction with the Gymnasium, ample opportunity is afforded to all students for healthful exercise and physical development. To assist in meeting the expenses of the Gymnasium, a nominal annual fee is imposed on those who avail themselves of its advantages. The supervision of all athletic matters has been intrusted by the Councils to an Athletic Board, consisting of six members appointed from the Faculty and the officers of the Athletic Association. All applications of clubs for the use of grounds must be made annually to this Board. All such applications must be accompanied by a list of officers. In the case of new clubs, the list

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of officers must be accompanied by particulars as to the organization and objects of the club making application. For table of gymnasium hours, see Appendix, p. 38.

### **Students' Union Building.**

In 1894, additions were made to the front of the building in which the Gymnasium is situated, consisting of a large hall for public meetings, a reading-room and committee-rooms. This additional accommodation is available for the work of the various student societies and for academic purposes. Applications for the use of rooms, accompanied by a list of officers and a copy of the constitution of the society making application, must be made, through the President, to the joint committee of the Councils on Gymnasium and Students' Union Building, at the beginning of the session, or from time to time as occasion requires. Arrangements have also been made by which recognized societies may obtain the use of committee-rooms on application to the janitor of the Students' Union Building.

### **Lodging and Board.**

There is in connection with University College a Residence which provides accommodation for about forty students. The Residence forms a wing of the main University Building, and is under the supervision of the Dean of Residence to whom is intrusted, under the Council, the discipline of resident students. The fee payable for board, rent of room, etc., varies from three and three-quarters to four dollars and a-half per week. For rules and regulations respecting the Residence, see Appendix. Accommodation is also readily obtainable in numerous private boarding-houses within convenient distance of the University, at a cost of from three dollars upwards for comfortable lodging with board; or rooms may be rented at a cost of from one dollar per week upwards, and board obtained separately at moderate rates. A list of accredited boarding-houses is kept by the Secretary of the University College Young Men's Christian Association, and students are recommended to consult him with reference to the selection of suitable accommodation.



### Regulations Relating to Students, Terms and Examinations.

1. The regular students include undergraduates of the University, and matriculants, *i.e.*, students who, though they have not passed the prescribed matriculation examination, are taking the full undergraduate course.
2. Students entering University College are required to produce satisfactory certificates of moral character and previous good conduct.
3. No student will be enrolled in any year, or be allowed to continue in attendance, whose presence for any cause is deemed by the Council to be prejudicial to the interests of the College.
4. Matriculated students are required to attend the courses of instruction and examinations in all subjects prescribed for students of their respective standing, and no student will be permitted to remain in the College who persistently neglects academic work.
5. The certificate required for admission to the University examinations will not be granted to students who have been reported to the Council for not conforming to the College or University regulations, or for improper conduct of any kind.
6. Matriculated students are required to reside, during the period of their attendance on lectures, in the College, or in houses selected by their parents or guardians, or approved by the President.
7. Men and women students, unless members of the same family, are not permitted to reside in the same lodging-houses.
8. Women students are under the supervision of the Lady Superintendent, whose directions as to conduct are to be observed.
9. All interference on the part of any student with the personal liberty of another, by arresting him, or summoning him to appear before any tribunal of students, or otherwise subjecting him to any indignity or personal violence, is forbidden by the Council. Any student convicted of participation in such proceedings will forfeit the certificate required for admission to the University examinations, and will render himself liable to expulsion from the University.
10. A student who is under suspension, or who has been expelled from the College or University, will not be admitted to the University buildings or grounds.
11. The constitution of every College or University society or association of students and all amendments to any such constitution must be submitted for approval to the College or University Council. All programmes of such societies or associations must, before publication, receive the sanction of the Council. Permission to invite any person not a member of the Faculty of the University or University College to preside at or address a meeting of any society or association must be similarly obtained. Societies and associations are required to confine themselves to the objects laid down in their constitution.
12. The name of the University or College is not to be used in connection with a publication of any kind without the permission of the University or College Council.

13. The Gymnasium and Athletic grounds are under the supervision of the President and a Joint Committee of the University and College Councils, who are authorized to make rules and regulations with regard to the use thereof.

14. Occasional students may be admitted to lectures on application to the President.

15. Certificates of attendance on lectures in any department during an academic year may be given to occasional students who have been regular in their attendance, and who have also passed the examinations in such department.

### FEES.

N.B.—All fees, with the exception of those for Matriculation, are payable to the Bursar, at his office in the main University building, between the hours of ten and one o'clock, except on Saturday.

#### I. UNIVERSITY FEES.

##### General.

The following fees are payable :—

For Junior Matriculation (Part I.)	Two Dollars.
For Junior Matriculation (Part II.)	Five "
For Junior Matriculation (Parts I. and II. together)	Five "
For Senior Matriculation	Fifteen "
For Certificate of Matriculation Standing	Five "
For each Supplemental examination	Ten "
For each examination after Matriculation	Fourteen "
For change of Faculty	Five "
For admission <i>ad eundem statum</i>	Ten "
For the Degree of B.A.	Ten "
For the Degree of M.A. (examination, \$10; degree, \$10)	Twenty "
For admission <i>ad eundem gradum</i> (B.A. or M.A.)	" "
For registration for Ph.D. course	Twenty-five "
For the Degree of Ph.D.	Fifty "
For dispensation from attendance at lectures in a federated College	Five "
For certificates of Honor, each	One "
For Library fee (annually)	Two "

The fee for each examination after Matriculation shall be \$14, this regulation to include Supplemental examinations in cases where the full examination is taken, and does not arise in consequence of rejection at a previous examination.

The fee for a partial Supplemental examination and for a full Supplemental examination, which does arise in consequence of rejection at a previous examination, shall be \$10.

Matriculated undergraduates who are registered students of University College, or of any federated University, may attend lectures of University

professors and lecturers in the Faculty of Arts without payment of fees, except those imposed for laboratory work; but such students must enter their names with the Registrar of the University.

### Laboratory Fees.

"A course in laboratory work" means the continuous course of instruction in laboratory or practical work offered to the student in any one year in any of the undermentioned subjects, namely, Physics, Chemistry, Mineralogy and Geology, Psychology, Biology (including Physiology, Zoology, Botany, and Histology), and any other separate subject in which laboratory work is or may be prescribed.

"A partial course of laboratory work" means a special course, or any subdivision, complete in itself, of a course of laboratory work as above defined.

"A matriculated student in Arts" means a student who is matriculated in the University of Toronto, and enrolled in University College or a federated University, and whose name is entered with the Registrar of the University of Toronto.

"An occasional student" includes every student in whose case the Senate of the University of Toronto is by law authorized to determine fees for courses of lectures in the University of Toronto.

Laboratory fees shall be divided into, (a) Fees for practical instruction in the laboratory, (b) Charges for supplies.

### Practical Instruction Fees.

The annual practical instruction fee for an occasional student attending a course, or partial course, of laboratory work shall be based on the lecture fee prescribed for occasional students by the Senate statute, namely:

For each course of not more than 15 hours .....	\$2 00
" " " between 15 and 30 " .....	3 00
" " " " 30 " 50 " .....	5 00
" " " " 50 " 80 " .....	7 00
" " " more than 80 hours .....	8 00

The annual practical instruction fee for an occasional student attending a course, or partial course, of laboratory work, shall be ascertained by adding for the purpose of calculation, to the number of lecture hours in the same course, or partial course, the number of hours of laboratory work therein; and by rating the aggregate lecture and laboratory fee for that course combined accordingly, as for example:—

Assuming the course of lectures to comprise fifteen hours, and the course of laboratory work to comprise fifteen hours, making thirty in all, the total fee for the course of lectures and laboratory work combined shall be that prescribed above for thirty lecture hours, namely, \$3.

### Charges for Laboratory Supplies.

Charges for supplies shall include laboratory materials and instruments used by or for the student, and ordinary wear and tear of instruments; but not charges for waste, neglect and breakage, which are to be met out of a deposit, to be fixed by the Professor.

The annual supply charges for a matriculated student in Arts shall be according to the following table:

	Chemistry.	Mineralogy and Geology.	Biology.	Physics.	Psychology.	Totals.
	\$	¢	\$	¢	\$	¢
<b>FIRST YEAR AND DEPARTMENT.</b>						
Natural Sciences.....	2	00				
Chemistry and Mineralogy.....	2	00	2	00	1	00
Physics and Chemistry.....				1		
<b>SECOND YEAR AND DEPARTMENT.</b>						
Chemistry and Mineralogy.....	3	00				
Physics and Chemistry.....	3	00	1	00	1	00
Natural Sciences.....	2	00	5	00	1	00
Mathematics and Physics.....	2	00				
<b>THIRD YEAR AND DEPARTMENT.</b>						
Chemistry and Mineralogy.....	10	00				
Natural Sciences, Div. I.—Biology.....	2	00	10	00	2	00
Physics.....	2	00	10	00		
+Physics and Chemistry.....				8		
Psychology.....	7	00		7		
<b>FOURTH YEAR AND DEPARTMENT.</b>						
Chemistry and Mineralogy.....	10	00				
Natural Sciences, Div. I.—Biology.....			20	00	2	00
Physics.....						
+Physics and Chemistry.....				10		
Psychology.....	7	00		7		
					3	00

† Students in these Departments, who take Biology in order to qualify as Specialists in Science, are required to pay in addition the Laboratory fee in Biology of the first and second years in the third and fourth years respectively.



The annual supply charges for an occasional student shall be according to the following table:—

*A. Partial Course 1.*

Being that prescribed for students in the School of Practical Science in Civil Engineering :

Second Year, Physics .....	\$1 50
Third Year " .....	1 00

*B. Partial Course 2.*

Being that prescribed for students in the School of Practical Science in Architecture :

Second Year, Physics .....	\$1 00
Third Year " .....	2 00

*C. Partial Course 3.*

Being that prescribed for students in the School of Practical Science in Mechanical and Electrical Engineering :

First Year, Physics .....	\$1 00
Second Year " .....	1 50
Third Year " .....	3 00

*D. Partial Course 4.*

Being that prescribed for matriculated students in Medicine :

	Chemistry.	Biology.
First Year .....	\$3 00	\$1 50
Second Year .....	3 00	2 75

The payment of fees shall not entitle any occasional student to be admitted to the laboratory work of a later year without having taken that of the earlier year or years, unless this requisite is dispensed with by the Senate on the recommendation of the Professor.

### Fees for Occasional Students in Arts, and Library Fees.

1. "A course of lectures" means the continuous course of instruction, excepting laboratory work, offered in the University Faculty to students in Arts in any one year in any of the undermentioned subjects, namely : History ; Italian and Spanish ; Phonetics ; History of Philosophy, Logic, Metaphysics and Psychology ; Political Science (including Political Economy, Jurisprudence and Constitutional Law) ; Mathematics ; Physics ; Chemistry ; Mineralogy and Geology ; Biology (including Physiology, Zoology, Botany and Histology) ; and any other separate subject in which instruction is or may be given by the teaching Faculty in the University of Toronto.

"A partial course of lectures" means any special course or any subdivision, complete in itself, of a course of lectures as above defined.

"A matriculated student in Arts" means a student in Arts who is matriculated in the University of Toronto and enrolled in University College or a Federated University, and whose name is entered with the Registrar of the University of Toronto.

"An occasional student" includes every student in whose case the Senate is by law authorized to determine fees for courses of lectures in the University of Toronto.

2. The annual fee for an occasional student attending a course, or partial course, of lectures shall be as follows :—

For each course of not more than 15 hours	.....	\$2 00
" " between 15 and 30 "	.....	3 00
" " " 30 " 50 "	.....	5 00
" " " 50 " 80 "	.....	7 00
" " more than 80 "	.....	8 00

3. Every matriculated or non-matriculated student proceeding to a degree in Arts shall pay, at the time of the entry of his name with the Registrar, an annual library fee of \$2.

4. No occasional or other student of any class shall be admitted to the library, save upon payment of an annual fee of \$2.

N.B.—All the above fees are payable in advance, and in the case of fees for lectures, if not paid during the month of October (or in the case of students attending in Easter term only, during the month of January), an additional fee of one dollar per month will be imposed until the whole amount is paid.

The fee for each examination must be paid at the time of application.

The fee for admission *ad eundem statum*, for change of faculty, for admission to a higher year on the certificate of the head of a federated college, for dispensation from attendance at lectures, or for certificates of honor, must be paid at the time of application.

## II. UNIVERSITY COLLEGE FEES.

Graduates in Arts, who have pursued the undergraduate course in University College, may attend lectures free; but this privilege does not exempt them from laboratory and other special fees.

For regular students in Arts, "a course of lectures" means a continuous course of instruction offered to matriculated students in Arts in any one year in any subject.

"A partial course of lectures" means any special course or any subdivision, complete in itself, of a course of lectures as above defined.

"A matriculated student in Arts" means a student who is matriculated in the University, and enrolled in University College, and whose name is entered with the Registrar of the University.

"An occasional student" includes every student, not being a matriculated student under the above definition, in whose case the Lieutenant-Governor in Council is by law authorized to determine fees for courses of lectures on the report of the Council of University College.

Every matriculated student in Arts shall, on each year's enrolment in University College, pay an enrolment fee according to the following table; which fee shall include all instruction for which fees are by law chargeable, except laboratory supply charges and library fees:—

### Table.

FIRST YEAR . . . . .	Any course or department . . . . .	\$36 00
SECOND YEAR . . . . .	Any course or department . . . . .	36 00
THIRD YEAR . . . . .	Chemistry and Mineralogy . . . . .	31 00
	Natural Science or Physics and Chemistry . . . . .	31 00
	Any other course or department . . . . .	36 00
FOURTH YEAR . . . . .	Physics and Chemistry, Chemistry and Mineralogy, or Physics . . . . .	31 00
	Biology . . . . .	26 00
	Any other course or department . . . . .	36 00

The annual enrolment fee of a matriculated student in Arts taking, under the regulations, more than one honor course, shall be \$36 only.

The enrolment fee of a matriculated student in Arts attending lectures for one term, or part of a term, shall be \$18.

The enrolment fee for students receiving dispensation from attendance at lectures in University College shall be \$5 for each term, in addition to the University fee of \$5. The payment of these fees entitles the student to supervision of "term work" prescribed in connection with his course.

The annual fee for an occasional student attending a course, or partial course, of lectures in University College shall be similar to the lecture fee prescribed by the Senate statute for occasional students, namely:

For each course of not more than 15 hours . . . . .	\$2 00
" " between 15 and 30 " . . . . .	3 00
" " " 30 " 50 " . . . . .	5 00
" " " 50 " 80 " . . . . .	7 00
" " more than 80 " . . . . .	8 00

The annual enrolment fee of an occasional student attending all the courses of lectures in any year shall be \$36.

For each Certificate of Honor . . . . . \$1 00

N.B.—All the above fees are payable in advance, and if not paid during the month of October (or in the case of students attending in Easter term only, during the month of January), an additional fee of \$1 per month will be imposed until the whole amount is paid.

SCHOLARSHIPS, PRIZES AND MEDALS.

I. University.

A. Matriculation Scholarships.

The scholarships hereinafter mentioned, with the exception of the Prince of Wales Scholarship and the Mary Mulock Scholarships, are provided from the endowment fund presented by the Honorable Edward Blake, Chancellor of the University, and are known as the Edward Blake Matriculation Scholarships.

I.

There are, including the Prince of Wales Scholarship, nine Junior Matriculation scholarships for general proficiency in the four departments of Classics, Mathematics, Modern Languages and Science, and the sub-department of History.

These scholarships are of the following values:—

SOURCE OF MONEY.		FREE TUITION.		TOTAL VALUE.
(1)	{ The Prince of Wales..... (Name, Prince of Wales.)	\$50 00	.....	\$50 00
(1a)	{ The Hon. Edward Blake..... (Name, Edward Blake.)	60 00	Four years.. \$144 00	204 00
(2)	{ " " "	42 50	" .. 144 00	\$254 00
(3)	{ " " "	25 00	" .. 144 00	186 50
(4)	{ " " "	22 50	" .. 144 00	169 00
(5)	{ " " "	20 00	Three years. 108 00	166 50
(6)	{ " " "	17 50	" .. 108 00	128 00
(7)	{ " " "	15 00	" .. 108 00	125 50
(8)	{ " " " (Name, West Durham.)	25 00	.....	123 00
				25 00

Candidates for these scholarships must obtain first-class honors in at least one department.

The scholarship (1a) shall be held together with the Prince of Wales Scholarship.

The scholarship (8) is preferentially tenable by a scholar from the Bowmanville High School.



## II.

There are twelve Junior Matriculation scholarships for proficiency in two departments, of the following values :—

		SOURCE OF MONEY.		FREE TUITION.		TOTAL VALUE.
CLASSICS AND MATHEMATICS, two . . . .	(1)	The Hon. Edward Blake. (Name, Edward Blake.)	\$60 00	Four Years.	\$144 00	\$204 00
	(2)		20 00	Three Years	108 00	128 00
CLASSICS AND MODERNS, four . . . .	(1)	"	60 00	Four Years.	144 00	204 00
	(2)		42 50	"	144 00	186 50
	(3)		20 00	Three Years	108 00	128 00
	(4)		17 50	"	108 00	125 50
MATHEMATICS AND MODERNS, two . . . .	(1)	"	60 00	Four Years.	144 00	204 00
	(2)		20 00	Three Years	108 00	128 00
MATHEMATICS AND SCIENCE, two . . . .	(1)	"	60 00	Four Years.	144 00	204 00
	(2)		20 00	Three Years	108 00	128 00
MODERNS AND SCIENCE, two . . . .	(1)	"	60 00	Four Years.	144 00	204 00
	(2)		20 00	Three Years	108 00	128 00

Candidates for these scholarships must obtain at least first-class honors in one of the specified departments and second-class in the other of them.

## III.

There are eight Junior Matriculation scholarships for proficiency in one department, of the following values :—

		SOURCE OF MONEY.		FREE TUITION.		TOTAL VALUE.
CLASSICS, two . . . .	(1)	{ Mary Mulock. (Name, Mary Mulock.)	\$60 00	Three years.	\$108 00	\$168 00
	(2)		{ Mary Mulock. (Name, Mary Mulock.)	60 00	Two years.	72 00
MATHEMATICS, two	(1)	{ The Hon. Edward Blake. (Name, Edward Blake.)		60 00	Three years.	108 00
	(2)		15 00	"	108 00	123 00
MODERNS, two . . . .	(1)	{ " " " "	60 00	"	108 00	168 00
	(2)		15 00	"	108 00	123 00
SCIENCE, two . . . .	(1)	{ " " " "	60 00	"	108 00	168 00
	(2)		15 00	"	108 00	123 00

Candidates for these scholarships must obtain first-class honors in their department.

GENERAL REGULATIONS.

The marks for all classes of Scholarships shall be assigned in the following proportions:—

CLASSICS .....	{ Latin .....	600	
	{ Greek .....	600	
MATHEMATICS .....			1200
MODERN LANGUAGES .....	{ English .....	400	1200
	{ French .....	400	
	{ German .....	400	
SCIENCE .....	{ Chemistry .....	400	1200
	{ Physics .....	400	
	{ Biology (Botany, Zoology) ..	400	
HISTORY .....			1200
			200

The marks obtained at the examination for Part I. shall not be taken into account in awarding any of the scholarships. The marks assigned to each of the subjects in the General course shall be as follows:—Latin, 200; Greek, 200; Mathematics, 400; English, 250; French, 125; German, 125; Chemistry, 75; History, 75.

All candidates for scholarships in one or more departments shall at the same examination pass in the other subjects prescribed for Part II. of the Junior Matriculation. The subjects of Part I., in which they are also required to pass, may be taken at the same or a previous examination.

A candidate who has been awarded a scholarship at a Junior Matriculation examination shall not be eligible for a scholarship at a subsequent Matriculation examination.

Saving the exception as to the Prince of Wales Scholarship, no one shall be entitled to hold more than one scholarship; but anyone who would, but for this provision, have been entitled to a second scholarship shall be published in the lists and receive a certificate of honor.

Every candidate for a Junior Matriculation scholarship in the University of Toronto, shall, on application for examination sign a declaration to the effect that he intends to proceed to a degree in the University of Toronto.

No scholarship shall be awarded save on condition that the candidate becomes a matriculated student in actual attendance in the University of Toronto.

Free tuition awarded shall be available on the following conditions:—For the first year on the award of the scholarship; for any year after the first on proof that the claimant has passed his examination for the preceding year with first-class honors in at least one department.

In the case of candidates who obtained scholarships prior to 1896, free tuition shall be accorded on a second-class standing.

In case in any year any scholarship be not taken, it shall be allowable to award such scholarship, or some part thereof, to a candidate who has shown

special excellence in the examination in some other group, and has taken scholarship rank therein, but has failed to win a scholarship therein.

In case in any year any scholarship be not awarded, the money undisposed of shall be divided among the scholarships for the succeeding year.

The Board of Arts Studies may from time to time make and amend any regulations requisite to carry out the plan : such regulations shall be laid before the Senate at its next meeting, and may be from time to time amended by the Senate or referred back to the committee for reconsideration.

RESOLUTION PASSED BY THE JOINT BOARD, DECEMBER 28, 1895.

That examinations for University Scholarships be held at any centre where there is an examination for Matriculation, provided any additional necessary expenditure be met by the locality ; and that the appointment of presiding examiners receives the approval of the Joint Board.

**B. Undergraduate Scholarships.**

The following scholarships have been founded and endowed in the University, and are open for competition to all undergraduates in Arts, who are candidates for Honors in the departments and years to which they are assigned :—

POLITICAL SCIENCE.

THE BANKERS' Scholarship, of the value of \$70, the gift of the Bank of Toronto, the Canadian Bank of Commerce, the Dominion, Imperial, Standard, and Traders' Banks, and the Union Bank of Lower Canada. Only such candidates are eligible as are of one year's standing and have passed the examination of the First year. A special examination on some special text-book of history or finance will be held at the time of the Supplemental examinations in September. This scholarship is not tenable with any other.

THE ALEXANDER MACKENZIE Scholarships, two of the value of \$75 each, and two of the value of \$50 each, the gift of friends of the late Hon. Alexander Mackenzie.

PHILOSOPHY.

THE JOHN MACDONALD Scholarship, of the value of \$50, the gift of the late Hon. John Macdonald.

MATHEMATICS AND PHYSICS.

THE WILLIAM MULOCK Scholarship, of the value of \$60, the gift of William Mulock, M.A., LL.D.

THE ALEXANDER T. FULTON Scholarship, of the value of \$60, the gift of the late Alexander T. Fulton.

A scholarship of the value of \$75, the gift of the Local Committee for the Toronto meeting of the American Association for the Advancement of Science. In awarding this scholarship, the theoretical and practical work in the department will be estimated in the proportion of three to one.





No candidate shall be permitted to hold more than one scholarship; but any one who would, but for this provision, have been entitled to a second scholarship, shall have his name published in the lists.

All undergraduate scholars must sign a declaration of intention to proceed to a Degree in this University, and must attend lectures in University College or Victoria University for the academic year immediately following such examination. The Senate however may, upon satisfactory reasons being shown, permit such scholar to postpone attendance upon lectures for a year. If at the end of the year a further postponement is necessary, special application must be made to the Senate. In every such case the payment of the scholarship shall likewise be postponed. The scholarships are paid in three instalments—on the fifteenth November, the fifteenth January and the fifteenth March; and each scholar is required to send to the Registrar a certificate of attendance upon lectures at least three days before the date of each payment.

No scholarship will be awarded to any candidate who has been placed lower than the First Class in the department to which the scholarship is attached.

#### C. Prizes in Books.

Four prizes in books, the gift of the Minister of Foreign Affairs for the Kingdom of Italy, are offered for competition among the students of Italian of the First, Second, Third and Fourth years, respectively.

The CHEMISTRY Prize, the gift of Professor Pike, of the annual value of \$15, is open for competition among students of the Fourth year in the Department of Chemistry and Mineralogy.

The MINERALOGY and GEOLOGY Prizes, the gifts of Professor Chapman, are open for competition among students of these subjects in the Second and Third years. The value of the Second year prize is \$5, and of the Third year prize is \$10.

#### D. Medals.

THE GOVERNOR GENERAL'S Medals, the gift of His Excellency the Earl of Minto, are awarded under the following conditions:—

1. The Gold Medal shall be awarded to that candidate in the final examination for the B.A. degree who, taking not less than 66 per cent. in English (as defined below), and not less than 75 per cent. in some one of the following Honor departments:—(a) Classics, (b) Philosophy, (c) (d) Mathematics or Physics, (e) (f) Natural Science (either division), shall also take the best aggregate mark in the two subjects.

2. English shall be understood to mean only the papers (at present four in number) on later English Literature (from the end of the 15th century).

3. In order to obviate any unfairness arising from a different system of marking in different departments, the principle shall be always adopted of raising the marks of the best candidate in the first class of each department to the maximum, and those of the others in proportion, unless the examiners of any department report that the marks of the best candidate in their department are not of sufficient merit to be so raised.

4. The Registrar shall publish not only the name of the successful candidate, but also the names of all candidates who, by satisfying the above conditions, are eligible for the award.

5. The Silver Medal shall be awarded to that candidate in the Second year of the General course who, taking not less than 75 per cent. in this examination, takes also the highest aggregate of marks when the result of the First and Second year examinations in this course are added together, such examinations having been taken in two consecutive calendar years.

6. The discretion of the examiners (paragraph three above), as in the examination for the Gold Medal, shall apply also to this examination.

NATURAL SCIENCE.

The Cawthorne Medal, the gift of F. T. Shutt, M.A., awarded on the recommendation of the Natural Science Association.

MATHEMATICS.

The Glashan Gold Medal, the gift of J. C. Glashan, Esq., awarded by the University Council to the University College candidate of the Fourth year who stands highest in First Class Honors.

PHYSICS.

The Ottawa Gold Medal, awarded by the University Council to the University College candidate of the Fourth year who stands highest in First Class Honors.

This Medal is the gift of the following Alumni, residents of Ottawa: Otto Klotz, Esq., J. C. Glashan, Esq., J. L. McDougall, M.A., C.M.G., W. Fitzgerald, M.A., Frederick Hayter, B.A., W. D. LeSueur, B.A., A. H. McDougall, B.A.

E. Graduate Scholarships.

THE RAMSAY Scholarship in Political Economy, of the value of \$60, the gift of Mr. William Ramsay. This Scholarship is open for competition to all graduates or undergraduates who have been placed in the First Class in one of the Economic subjects of the Fourth year in the Honor department of Political Science (Third year in the Faculty of Law); but not more than two years must have elapsed since the competitor passed the examination above specified. The award is made upon an essay, the subject of which must be some question in Economics or Finance of interest to the commercial community in Canada, to be announced in May of each year, and the competition closes on the 15th of September thereafter, by which date the essays must be sent to the Registrar.

THE 1851 EXHIBITION Science Scholarship, of the value of £150 sterling, given by the Commissioners for the International Exhibition of 1851, is awarded once in two years by the University Council for research in some branch of Physics or Chemistry. Subject to a satisfactory report as to progress in study, it is ordinarily tenable for two years at home or abroad.

THE GEORGE PAXTON YOUNG Memorial Fellowship in Philosophy, of the value of \$400, will be awarded in June, 1901. The holder must be a Bachelor of Arts who has taken an Honor course in Philosophy. This Scholarship is tenable for one year, and the holder must devote his whole time to the study of some topic falling under the general term Philosophy. He may pursue his studies either in the University of Toronto, or in some other University approved by the University Council; but in either case he shall furnish to the University Council such evidence as may from time to time be required, that he is faithfully observing the conditions under which the scholarship was awarded. Applications must be in the hands of the Registrar on or before June 15th, 1901. Further particulars may be obtained from the Registrar.

#### F. Graduate Fellowships.

THE ALEXANDER MACKENZIE Fellowships in Political Science, two of the value of \$375 each, the gift of the friends of the late Hon. Alexander Mackenzie. These fellowships are awarded annually by the University Council to graduates of the University of Toronto, and they are tenable for one year, but the Council may, at its discretion, award them for a second term. The holder of a Mackenzie Fellowship shall devote his time to the prosecution of special studies at the University of Toronto under the direction of the head of the department in which the fellowship is awarded. The sum of \$125 shall be paid to the holder of the Fellowship on the 15th October; a further sum of \$125 on the 15th January, provided that the progress of his studies is satisfactory to the Council at that date; and a final instalment of \$125 on the 15th April, or as soon thereafter as his thesis shall be accepted by the Council. During his tenure of the fellowship he shall not be permitted to pursue a professional or technical course of study, nor shall he engage in remunerative employment except by permission of the Council. He shall further conform to such other regulations as the Council may deem necessary for carrying out the object of special research for which these fellowships are designed. Any violation of the conditions under which the appointment is made shall operate to vacate the fellowship.

## II. University College.

### A. Scholarships.

The following scholarships have been founded and endowed in University College, and are open for competition among the students in actual attendance in the College:—

**THE MOSS CLASSICAL Scholarships**, two of the value of \$60 each, in Classics in the First and Third years respectively, founded by subscription in honor of the late Hon. Chief Justice Moss.

**THE WILLIAM MULOCK Scholarship** in Classics in the Second year, of the value of \$60, the gift of William Mulock, M.A., LL.D.

**THE EDWARD BLAKE Scholarship** in Modern Languages in the First year, of the value of \$60, the gift of the Hon. Edward Blake.

**THE GEORGE BROWN Scholarship**, in Modern Languages in the Second year, of the value of \$60, founded in honor of the late Hon. George Brown.

**THE JULIUS ROSSIN Scholarship** in Modern Languages in the Third year, of the value of \$60, the gift of Julius Rossin, Hamburg, Germany.

**THE JOHN MACDONALD Scholarship** in Philosophy in the Third year, of the value of \$50, the gift of the late Hon. John Macdonald.

**THE KNOX COLLEGE Scholarships** in Oriental Literature, of the value of \$45 and \$60, are offered by the Senate of Knox College, to be competed for by students of the Second and Third years respectively, who shall be in actual attendance in University College, and intend to enter the Theological classes of Knox College.

### B. Prizes in Books.

**THE FREDERICK WYLD Prize**, the gift of F. Wyld, Esq., of the annual value of \$25, for English Composition, is open for competition among all students of the Third and Fourth years in attendance on lectures.

**THE FRENCH PROSE Prize**, of the annual value of \$10, for French Composition, is open for competition among matriculated students of all years in attendance on lectures.

### C. Medals.

Medals are offered for competition to undergraduates in the following departments in actual attendance as students in the College:—

**CLASSICS** (in the Fourth year).

**The McCaul Medal (Gold)**, established in 1886 by the late W. H. C. Kerr, Gold Medallist in Classics of 1859, in memory of the Rev. John McCaul, LL.D., First Professor of Classics and First President of University College. It was presented by Mr. Kerr from 1886 up to his death, and from 1891 to 1894, after his death, by his widow. Since then the donors have been John Hoskin, Q.C.,



LL.D., Chairman of the Board of Trustees (for 1895); Nicol Kingsmill, M.A., Q.C., Classical Medallist of 1856 (for 1896); and A. M. Crombie, Esq., of Montreal (for 1897), in memory of his brothers Ernestus Crombie, M.A., Gold Medallist in Classics of 1854, and Marcellus Crombie, M.A., LL.B., Gold Medallist in Classics of 1857; in 1898 and 1899 William Dale, M.A., Gold Medallist in Classics of 1871. The medal will be donated in 1900 by Professor Fletcher, Gold Medallist in Classics of 1872, and Professor Hutton. In 1901 it is proposed to replace the McCaul Medal by two McCaul Matriculation Scholarships in Classics.

MODERN LANGUAGES (in the Third Year).

The Governor General's Medal (Silver), the Gift of His Excellency the Earl of Minto.

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## FELLOWSHIPS.

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### University.

Tutorial Fellowships in Mathematics, Chemistry, Biology and Political Economy, of the annual value of \$500 each, are awarded annually. The selection is made from among graduates of the University. Each Fellow is appointed annually; but he may be re-appointed for a period not exceeding, in all, three years.

Each Fellow is required to assist in the teaching and practical work of his department, under the direction of the Professor or Lecturer. The Fellows are selected with a special view to their aptitude for teaching, and their attainments in the department in which the appointment is to be made. Every Fellow on accepting his appointment comes under an obligation to fulfil the duties of his Fellowship during the Academic Year in which he is appointed, unless specially exempted.

Candidates must send in their applications annually to the Registrar, not later than the first day of June.

# The University of Toronto.

## REGULATIONS

AND

## CURRICULUM IN ARTS.

### Degree of Bachelor of Arts.

1. There are two ordinary modes of proceeding to the Degree of Bachelor of Arts, viz. : (1) by taking the General Course ; or, (2) by taking an Honor Course.
2. Candidates may enter the Faculty of Arts by passing either the Junior Matriculation examination or the Senior Matriculation examination.
3. The Junior Matriculation examination is held in July under the joint control of the University of Toronto and the Education Department of Ontario, at centres within the Province.
4. A Junior Matriculation examination is conducted by the Senate in September, at the University, and at such other places as may from time to time be determined upon.
5. The Senior Matriculation examination is held in May, June, and September, at the University ; but under certain conditions, the June examination may be held at local centres within the Province.
6. Junior and Senior Matriculation examinations will be held in June, at such places outside of the Province of Ontario as may from time to time be determined upon by the Senate. Applications for the appointment of local centres for holding such an examination must be made to the Registrar of the University not later than the fifteenth day of April in each year.
7. The examinations in September are open only to candidates taking the General Course.

### Junior Matriculation.

8. Candidates for Junior Matriculation must produce satisfactory certificates of good conduct, and of having completed the sixteenth year of their age.
9. All candidates for Junior Matriculation shall take the following subjects of the General Course :—English, Latin, History, Mathematics, and any two of the following :—Greek, French, German, Experimental Science (*i.e.*, Physics and Chemistry).

10. The examination is divided into two parts, which may be taken at the same or separate examinations.

11. (a) Candidates for Part I. shall take the following subjects of the General Course :—Arithmetic, English Grammar, History of Great Britain and Canada ; candidates who select Experimental Science as one of their options shall take Physics in either Part I. or Part II.

(b) The Physics of the Third Form of the Examinations of the Education Department may be substituted for the Physics of this Part.

12. Candidates for Part II. shall take the following subjects of the General Course :—Latin, English Composition, English Literature, Ancient History, Algebra, Geometry, and any two of the following :—Greek, French, German, Chemistry.

13. Candidates for Honors and for Scholarships will be examined only on the Honor papers in a department ; but candidates who fail to obtain Honors may receive pass standing on these papers.

14. Candidates who have already passed Junior Matriculation, shall, if they again present themselves for examination at Junior Matriculation, be regarded as having passed Part I. only.

15. Candidates failing in one or more subjects of either Part may take at any one subsequent Examination held for that part, the subject or subjects in which they have failed.

16. For Pass, a candidate shall obtain one-third of the marks assigned to each paper. On each of the " Authors " papers not more than one-third of the marks shall be assigned to sight translation.

17. The ordinary annual examination for Pass and Honor Junior Matriculation shall commence in July, and applications therefor must be sent to the Education Department, through the Public School Inspector or the Registrar of the University, not later than May 24th. In the case of candidates for scholarships, applications must be sent to the Registrar of the University by the above-mentioned date. If the candidate desires to write at the University, the fee must accompany the application ; otherwise the fee must be sent through the Public School Inspector.

18. Applications from candidates outside of the Province of Ontario for the June examination must be sent to the Registrar of the University not later than the first day of May.

### Senior Matriculation.

19. The examinations for Senior Matriculation shall be held in May and September at the University of Toronto, and in June at the University of Toronto and such other centres as may be determined by the standing committee on examinations.

20. All candidates for Senior Matriculation shall take the following subjects of the General Course :—English ; Latin ; any two of the following languages, viz., Greek, French, German, Hebrew ; Ancient History ; Mathematics ; Physics or Biology.

21. Candidates who have passed the Senior Matriculation examination are subject to the same conditions regarding transference from the general course to an Honor course or *vice versa* as undergraduates who have completed their First year.

22. Candidates who present themselves in May will be examined in the papers of the First year examination, and the number and the standard of the examination papers and the regulations respecting the subjects of examination at the June examination shall be the same in each department as for the First year examination. The percentage for Pass at each of the examinations shall be one-third of the maximum of marks assigned to each paper. The percentage required for honors, shall be the same in each department in May and June as for the ordinary First year examination.

23. Candidates for this examination shall make application to the Registrar of the University not later than the fifteenth day of March for the May examination, and the fifteenth day of May for the June examination. Candidates for the June Senior matriculation, residing outside the Province of Ontario, shall make application to the Registrar of the University not later than the 1st day of May.

24. Applications for a local examination shall be made to the Registrar of the University by the authorities of a School or Collège, not later than the first day of May in each year.

25. The presiding examiner or examiners at each centre shall be appointed by the standing committee on examinations, and of these examiners, as many as may be found necessary, shall be appointed to read the dictation papers in French and German.

26. The fee for the presiding examiner at a centre shall be \$4.00 a day, and this fee and such other expense as may be incurred in connection with the local examination shall be paid to the persons concerned by the authorities of the School or Collège on whose application the examination is held.

27. The Board of Examiners for the June and Supplemental examinations shall be, as far as practicable, that appointed for the Junior Matriculation Supplemental examination in Arts.

### Matriculation Equivalent Examinations.

28. Certificates of having passed second or first class; Junior or Senior Leaving; or Forms II., III. or IV. examinations of the Education Department of Ontario will be accepted *pro tanto* for subjects of the General Course at any Junior Matriculation examination.

29. First Class, Senior Leaving, Form IV. Certificates, or a statement from the Education Department that the candidate has obtained in any subject or subjects, required for such certificate, not less than the percentage, for the time being, set by the Senate as that required for pass standing in the Faculty of Arts may be accepted *pro tanto* for such subject or subjects of the General Course at the Senior Matriculation and First Year's Examinations. Candidates presenting such certificates shall not be exempt from the examination in Ancient History prescribed for the First Year in the General Course.



30. Candidates presenting First Class, Senior Leaving, or Form IV. Certificates, covering the work of the First year or Senior Matriculation lacking one or two subjects may be admitted to standing in the General Course of the Second Year started in such subject or subjects.

31. The standing of candidates for the whole or part of the examination for a higher grade of certificate than Senior Leaving shall be determined in each case by the Senate.

32. The examinations of the School of Practical Science in Mathematics, Physics, Chemistry, Mineralogy and Geology, may be accepted *pro tanto*.

33. Candidates presenting *pro tanto* certificates must attempt to pass at one time in all the subjects necessary to complete the entire examination and are eligible for scholarships and relative standing except in the case of candidates for Junior Matriculation honors and scholarships, who may present *pro tanto* certificates for Part I. only.

#### Admission "ad Eundem Statum."

34. An undergraduate in the Faculty of Arts in another University may be admitted *ad eundem statum* on such conditions as the Senate may prescribe.

35. If such applicant be admitted to a lower standing in this University than he held in his own University, he may not compete for scholarships at the next ensuing examination; but if he obtain honors, he shall, at the next succeeding examination, enjoy the same rights and privileges with respect to obligatory subjects as an original undergraduate of this University who has passed an examination of the same merit.

36. The Local examinations for students, conducted by the University of Cambridge, are accepted *pro tanto* for Junior Matriculation.

#### Supplemental Matriculation Examinations.

37. Supplemental examinations for Junior and Senior Matriculation will be held at the University about the middle of September, at which those who are rejected at previous examinations, as well as new candidates, may present themselves; but no honors or scholarships will be awarded at such examinations. The number and the standard of the examination papers, the regulations respecting the subjects of examination, and the percentage required for Pass, shall in each case be the same as at the ordinary examinations. Applications therefor must be sent to the Registrar of the University not later than 1st September.

#### Matriculation Fees.

38. The fees payable are as follows:—

For Junior Matriculation, if Parts I. and II. are taken at the same time .....	Five Dollars.
For Junior Matriculation, Part I. ....	Two Dollars.
For Junior Matriculation, Part II. ....	Five Dollars.
For Supplemental Examination in Junior Matriculation subjects in which the Candidate has failed, Two Dollars for each subject; total fee not to exceed .....	Five Dollars.

For Senior Matriculation.....	Fifteen Dollars.
For Senior Matriculation on <i>pro tanto</i> certificate .....	Fifteen Dollars.
For Senior Matriculation Examination in Arithmetic and English Grammar .....	Two Dollars.
For <i>Ad eundem statum</i> .....	Ten Dollars.

The fee must be paid to the Bursar at the time of application for examination.

### Regulations Relating to all Undergraduates.

39. An undergraduate is a student (1) who has passed the Junior or Senior Matriculation Examination of this University, or (2) who has passed the Junior Matriculation Scholarship Examination of this University, or (3) who has registered the certificates of having passed the Matriculation Examination conducted by this University and the Education Department of Ontario, or (4) has been admitted *ad eundem statum* from some other University.

40. Undergraduates proceeding to the Degree of Bachelor of Arts must be enrolled either in University College or in Victoria University. They must also attend lectures on all the subjects of their course of study for the year, unless for sufficient reasons the Senate, on recommendation of the College in which they are enrolled, grants them a dispensation from lectures for the whole or part of the session. The fee for such dispensation shall be five dollars, and is additional to the enrolment fee. All applications for such dispensation for the Michaelmas Term must be lodged with the Registrar before October 1st, and for Easter Term before January 1st.

41. Undergraduates who are repeating the year without attendance on lectures are required to apply for dispensation, but are not required to pay the dispensation fee.

42. In case a student who has won a scholarship at matriculation applies for dispensation from attendance for one or more of the years during which he is entitled to exemption from tuition fees, he shall be exempt from the usual fee for dispensation in lieu of tuition fees.

43. Every undergraduate must, before being admitted to any examination subsequent to that by which he enters the University, produce a certificate from the head of the College in which he is enrolled, to the effect that he has complied with all the requirements of that College affecting his admission to such examination, and no candidate shall be admitted to standing at any examination who has been reported by his College Council to have violated its regulations.

44. Notice of the time of commencement of the undergraduate examinations will be given annually in January.

45. Candidates in all the years are required to send to the Registrar of the University, at least six weeks before the commencement of each examination, an application for examination according to a printed form to be obtained from the Registrar. The fee for examination and, in the case of candidates for degrees, that for the degree, must be paid not later than April 15th.

**Regulations Relating to the General Course.**

46. An undergraduate is entitled to the degree of Bachelor of Arts if in each year of his course he passes the examinations in the prescribed work of the General course.

47. Candidates in the General course in Arts must obtain at the annual examinations a minimum average of sixty-six per cent. in order to be placed in the first class in General Proficiency, and a minimum average of fifty per cent. in order to be placed in the second class. The candidates in these two classes shall be ranked in order of merit. All candidates failing to obtain fifty per cent. in each subject but obtaining not less than thirty-three per cent., shall be ranked as Pass candidates. The names of candidates in the General course in Arts who avail themselves of the theological options shall be placed in a list, separate from those who have not availed themselves of this privilege.

48. Candidates in the General course in Arts shall be arranged alphabetically in each subject in the annual class lists in three grades, A, B, and C; the minimum for Grade A shall be sixty-six per cent. of the marks, and for Grade B, fifty per cent.; all who pass with less than fifty per cent., but not less than thirty-three per cent., shall be placed in Grade C.

49. The name of a Pass candidate in Arts may be allowed to appear in the class lists of his year, provided there are not more than two subjects in which he has failed. These subjects may be among the obligatory subjects of the year, or they may be subjects attempted at a previous examination or examinations. Honor and General Proficiency candidates in Arts may be starred in one, but not more than one subject of the General course on like conditions.

50. Honor candidates who have failed in one subject under the above regulation, and who in consequence have been starred in that subject, may repeat in May the whole examination at which they were starred, and similarly General Proficiency or Pass candidates who have been starred in one or two subjects, may repeat the whole examination either in September or in May, but such candidates shall not be eligible for scholarships. All candidates who do not exercise this option may present themselves for examination in the subjects in which they have been starred, either in September or in May, but on so presenting themselves, they shall be entitled to examination in those subjects only in which they have been starred.

51. Candidates of the Fourth year who have been starred in one or two subjects, but who have not succeeded in writing off these subjects at some previous examination, may be allowed to take this work at a special examination to be held in the latter part of April, or at the time of the annual examinations in May. Candidates taking advantage of this provision shall pay an additional fee of ten dollars. But in the case of English and Latin of the Third and Fourth years, a candidate shall not be considered to have written off his star, unless the Third year examination which he passes covers a different prescription of texts from that covered by his Fourth year examination.

52. When a candidate at an examination is starred in a subject which is one of two or more subjects between which an option exists at the said

examination, the candidate at his supplemental examination may present himself in any one of such alternative subjects.

53. At the beginning of the Second, Third, or Fourth year a candidate may be transferred from the General course to an Honor course or *vice versa*, or from one Honor course to another Honor course, by passing an examination on such subjects, and by obtaining therein such a percentage as may be required by the Senate in view of the nature of the transfer granted. But transfer to an Honor course shall not be granted to any student who is starred in any subject of the General course.

54. A student in the General course who wishes to take honors in a department may be allowed to repeat his year, taking the work of the Honor department only if he so desires, and on passing with honors he shall be allowed to proceed in that department.

55. Undergraduates of any year, who have been rejected, or who have by sickness, domestic affliction, or other causes beyond their control been prevented from attending the Annual examinations in May, may present themselves for examination in September; but candidates who have failed to attend at the May examinations, must prove to the satisfaction of the Vice-Chancellor, before presenting themselves in September, the existence and sufficiency of the alleged cause of absence, and all such cases shall be subsequently reported to the Senate.

56. Undergraduates in the General course in the Third and Fourth years may, in lieu of one or more of the subjects prescribed for each of these years, take certain of the following subjects, namely, Biblical Greek, Biblical Literature, Apologetics, Church History, and Christian Ethics, according to the following schedule:—

THIRD YEAR. . . . Biblical Greek *for* Classical Greek; Church History *or* Biblical Literature *for* Modern History; Apologetics *for* Physics.

FOURTH YEAR. . . . Biblical Greek *for* Classical Greek; Biblical Literature *or* Church History *for* Modern History; Christian Ethics *or* Apologetics *for* History of Philosophy.

NOTE.—Candidates are allowed two of the three options in the Third, and all three in the Fourth year.

57. Undergraduates who exercise the theological options must present to the College in which they are enrolled certificates of having attended lectures (unless granted dispensation by the University) and of having passed examinations in the subjects so selected at an affiliated or federated College or University other than University College. These examinations must be taken in the same year as the corresponding University examinations, and be subject to the same regulations as to standard.



**Term Work in the General Course.**

58. Reports of attendance at pass lectures in the First and Second years shall be made in all departments except those of Physics, Biology, Chemistry, and Geology, and marks for such attendance shall be assigned in connection with the May examination as follows:—

For attendance at four-fifths and over .....	20	marks.
“ “ “ two-thirds and over.....	13	“
“ “ “ one-half and over.....	7	“

59. No student attending less than one-half the lectures shall receive any marks for attendance.

60. Reports on term pass work in the First and Second years shall be made in all departments except those of Chemistry, Natural Science, and Physics. In the department of English four essays at least shall be required during the session from each student; and the reports on term work in that department shall be based on the essays. In other departments the report on term work shall be based on those parts of the work which the professor or lecturer may deem most appropriate as tests of proficiency. The maximum number of marks to be assigned for term work in connection with the May examination shall be thirty, except in the case of English, in which the term work shall count as eighty marks.

61. Students to whom the foregoing regulations apply must obtain on the May examination at least thirty-three per cent. of the examination marks; and must also obtain at least thirty-three per cent. of the aggregate number of marks assigned according to the following schedule:—

May examination .....	100
*Term work .....	30
Attendance .....	20
Total .....	150

62. The Senate may, upon the report of the University or College Council concerned, based on the recommendation of a Professor or Lecturer, excuse registered students from term work and from attendance at lectures in any one or more subjects. Such exemption must be obtained at the beginning of each term, and no exemption from term work shall be allowed in the case of English.

\*English term work 80, and total 200.

### Regulations Relating to the Honor Course.

63. In this course there are eleven Honor departments, viz.: I. Classics; II. Modern Languages; III. English and History; IV. Oriental Languages; V. History; VI. Political Science; VII. Philosophy; VIII. Mathematics and Physics; IX. Natural Science; X. Chemistry and Mineralogy; XI. Physics and Chemistry.

64. Candidates shall not have the right to claim examination in more than two Honor courses after the first year.

65. An undergraduate is entitled to the degree of Bachelor of Arts, if in each year of his course he passes the examinations in the prescribed work of one of these departments, and also the subjects of the General course prescribed in connection therewith, at the respective times mentioned in the schedule at the head of each department.

66. In the annual class lists, the names of candidates who obtain honors in any department or subject shall be arranged in order of merit in three classes, those obtaining seventy-five per cent. and over of the total number of marks being placed in the first class, those obtaining sixty-six per cent., and less than seventy-five per cent. being placed in the second class, and those obtaining fifty per cent. and less than sixty-six per cent. being placed in the third class.

67. A candidate pursuing a course in an Honor department who falls below the third class in his department, shall not be allowed standing of the following year. But in the departments of Classics, Modern Languages, English and History, History, Political Science, Philosophy, Chemistry and Mineralogy, Physics and Chemistry, and Natural Science, candidates whose average is not less than third class, but who have fallen below third class in any one subject, may, on the recommendation of the examiners, be allowed to proceed as Honor candidates in the following year.

68. A candidate who competes for honors at the examination for Bachelor of Arts, and fails to obtain the requisite number of marks to entitle him to be classed in honors, may, on the recommendation of the examiners, be awarded a degree without honors; it being at the option of the candidate to accept the award of such a degree, or to wait until a subsequent examination, and again compete for a degree in honors.

69. An undergraduate who has obtained honors in any department may with the consent of the Senate be transferred to any other department, and proceed therein, but as a prerequisite to obtaining the Degree of Bachelor of Arts, he must during his course have passed the examinations in the subjects of the General course required in the Honor department to which he is transferred.

70. Candidates in the honor subjects of Physics, Chemistry, Biology, Mineralogy and Geology, and Psychology will be ranked in the class lists on practical work done in the laboratories of the respective departments during the session; and no candidate will be allowed to proceed to examination in any of these honor subjects unless he presents to the Registrar a certificate from the

Professor that he has attained honor standing in the practical work of that subject.

71. In the departments of Philosophy, Mathematics and Physics, Physics and Chemistry, Chemistry and Mineralogy, and Natural Science, each candidate for honors must attend all examinations in the practical work of the year in which he presents himself for the University examination.

72. Undergraduates in the Honor department of Philosophy may, in the Third year, substitute for Modern History and Economics any two of the three following subjects, viz.: Church History, Apologetics, Biblical Literature. Undergraduates in the Honor department of Oriental Languages may, in the Third and Fourth years, substitute Biblical Greek for Classical Greek. Candidates exercising these options must present certificates of having attended lectures and passed examinations in the subjects so selected at an affiliated or federated College or University other than University College. These examinations must be taken in the same year as the corresponding University examinations, and be subject to the same regulations as to standard. These examinations do not count for honors.

73. In the Honor department of Philosophy two distinct examinations are held upon the two systems of Philosophy taught in the federated Arts Colleges.

#### Degree of Master of Arts.

74. Candidates for the Degree of Master of Arts must have been admitted to the Degree of Bachelor of Arts, must be of the standing of ~~one year~~ from admission to the Degree of Bachelor of Arts, and must have sent in an approved thesis upon some subject in one of the departments in the Faculty of Arts. The thesis must be sent to the Registrar not later than 1st May.

#### Degree of Doctor of Philosophy.

75. A candidate for the Degree of Doctor of Philosophy must have been admitted to a degree in Arts in the University of Toronto, must have pursued for at least two years the study of a major subject, must pass examinations on two minor subjects equivalent to first class honor standing for the B.A. Degree, and must present an approved thesis embodying the results of an original investigation. For details, see p. 194.

#### Admission "ad Eundem Gradum."

76. A graduate in the Faculty of Arts in any University in Great Britain or Ireland (if his degree be not an honorary one) may be admitted to the same degree in the University of Toronto.

JUNIOR MATRICULATION.

GENERAL COURSE.

PART I.

**English Grammar.**

The main facts in the development of the language. Etymology and Syntax, including the logical structure of the sentence and the inflection, classification and elementary analysis of words.

One examination paper.

**Arithmetic.**

ARITHMETIC: Elementary Rules, Fractions (Vulgar and Decimal), Interest, Discount, and easy problems in Stocks.

One examination paper.

**History of Great Britain and Canada.**

Great Britain and Canada from 1763 to 1885, with the outlines of the preceding periods of British History.

The Geography relating to the History prescribed.

One examination paper.

**Elementary Experimental Science (Physics).**

Use of metre rule; use of calipers and vernier for more accurate metric measurements (*e.g.*, diameters of wires, thickness of glass, plates, etc.); numerical calculations in the metric system.

Use of balance.

Specific gravity, by specific gravity bottle and hydrostatic balance, of liquids and of solids.

Boyle's law; barometer; diffusion of gases.

Use of Fahrenheit and Centigrade thermometers; determination of zero and boiling point; boiling point dependent on pressure.

Expansion of solids, liquids and gases; examples.

Specific heat; latent heat; easy numerical examples.

Transmutation of matter; indestructibility of matter.

Solution, precipitation, crystallization and evaporation.

One examination paper.



## PART II.

## Latin.

Translation into Latin of English phrases and easy sentences to illustrate Latin accident and the common rules of Latin syntax.

Translation into Latin of easy narrative English based upon the first twenty-five chapters of the prescribed Caesar.

Translation at sight (with the aid of vocabularies) from some easy prose author.

Translation from prescribed texts, with grammatical and other questions naturally arising from the extracts set for translation.

The following are the texts prescribed:—

1900: VERGIL, Aeneid, Bk. II; CAESAR, Bellum Gallicum, Bk. V.

1901: VERGIL, Aeneid, Bk. II; CAESAR, Bellum Gallicum, Bks. II, III.

1902: Cornelius Nepos, Lives of Themistocles, Aristides and Hannibal; CAESAR, Bellum Gallicum, Bk. IV (omitting Chap. 17), and Bk. V, Chaps. 1-23; VERGIL, Aeneid, Bk. II (1-505).

Two papers will be set: (1) Translation of English into Latin. (2) Prescribed texts and translation at sight, with questions on Grammar, etc.

N. B.—The Roman method of pronouncing Latin is recommended.

## English.

COMPOSITION: An essay, to which special importance will be attached, on one of several themes set by the examiners. In order to pass in this subject, legible writing, correct spelling and punctuation, and proper construction of sentences are indispensable. The candidate should also give attention to the structure of the whole essay, the effective ordering of the thought, and the accurate employment of a good English vocabulary. About two pages of foolscap is suggested as the proper length for the essay; but quality, not quantity, will be mainly regarded.

One examination paper.

LITERATURE: Such questions only shall be set as may serve to test the candidate's familiarity with, and intelligent and appreciative comprehension of, the prescribed texts. The candidate will be expected to have memorized some of the finest passages. In addition to the questions on the prescribed selections, others shall be set on a "sight passage" to test the candidate's ability to interpret literature for himself.

One examination paper.

## 1900.

LONGFELLOW: Evangeline, A Psalm of Life, Wreck of the Hesperus, "The day is done," The Old Clock on the Stairs, The Fire of Driftwood, Resignation, The Warden of the Cinque Ports, Excelsior, The Bridge, A Glean of Sunshine.

WORDSWORTH ; The Education of Nature ("Three years she grew"), "She was a phantom of delight," A Lesson ("There is a flower, the Lesser Celandine"), To the Skylark, The Green Linnet, To the Cuckoo, To the Daisy, and the following Sonnets, To a Distant Friend ("Why art thou silent"), England and Switzerland ("Two voices are there"), "Milton, thou shouldst be living at this hour," Westminster Bridge, The Inner Vision ("Most sweet it is, with unlifted eyes"), "O Friend! I know not which way I must look," To Sleep, Within King's College Chapel.

1901.

TENNYSON : Elaine, Lady of Shalott, St. Agnes' Eve, Sir Galahad, Lotus-Eaters, Ulysses, Crossing the Bar, Early Spring, "You ask me why," "Of old sat Freedom," "Love thou thy land," the six interlude songs and "Tears, idle tears," in "The Princess."

1902.

SCOTT : Lay of the Last Minstrel.

Greek.

Translation into English of passages from prescribed texts.  
 Translation at sight (with the aid of vocabularies) of easy Attic prose, to which special importance will be attached.  
 Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.  
 Translation from English into Greek of sentences and of easy narrative passages based upon the prescribed prose texts.  
 The following are the prescribed texts :—  
 1900 : Selections from XENOPHON, Anabasis I, in White's Beginner's Greek Book (pp. 304-428) with the exercises thereon ; HOMER, Iliad I.  
 1901 : Selections from XENOPHON, Anabasis I, in White's Beginner's Greek Book (pp. 304-428) with the exercises thereon ; HOMER, Iliad I.  
 1902 : Selections from XENOPHON, Anabasis I, in White's Beginner's Greek Book (pp. 304-428) with the exercises thereon ; HOMER, Iliad VI.  
 Two papers will be set : (1) Prescribed texts and translation at sight ; questions on Grammar ; (2) the translation of English into Greek.

French.

The candidate's knowledge of French will be tested by : (1) simple questions on grammar, (2) the translation of simple passages from English into French, (3) translation at sight of easy passages from modern French, and (4) an examination on the following texts :—  
 1900 : ENAULT, le Chien du capitaine ; FEUILLET, la Fée.  
 1901 : DE MAISTRE, Voyage autour de ma chambre ; LABICHE, la Grammaire.

1902 : LAMENNAIS, Paroles d'un croyant, Chaps. VII and XVII ; PERRAULT, le Maître Chat ou le Chat Botté ; DUMAS, Un nez gelé, and la Pipe de Jean Bart ; ALPHONSE DAUDET, la Dernière classe, and la Chèvre de M. Seguin ; LEGOUVÉ, la Patte de dindon ; POUVILLON, Hortibus ; LOTI, Chagrin d'un vieux forçat ; MOLIÈRE, l'Avare, Acte III, sc. 5 (Est-ce à votre cocher . . . sous la mienne) ; VICTOR HUGO, Waterloo, Chap. IX ; ROUGET DE L'ISLE, la Marseillaise ; ARNAULT, la Feuille ; CHATEAUBRIAND, l'Exilé ; THÉOPHILE GAUTIER, la Chimère ; VICTOR HUGO, Extase ; LAMARTINE, l'Automne ; DE MUSSET, Tristesse ; SULLY PRUDHOMME, le Vase brisé ; LA FONTAINE, le Chérié et le Roseau.

MADAME EMILE DE GIRARDIN, la Joie fait peur.

Two papers will be set : (1) Prescribed texts and translation at sight ; questions on Grammar ; (2) the translation of English into French.

#### German.

The candidate's knowledge of German will be tested by : (1) simple questions on grammar, (2) the translation of simple passages from English into German, (3) translation at sight of easy passages from modern German, and (4) an examination on the following texts :—

1900 : HAUFF, das kalte Herz, Kalif Storch.

1901 : LEANDER, Träumereien (selected by Van Daell).

1902 : GRIMM, Rößkippchen ; ANDERSEN, Wie's der Alte macht, Das neue Kleid, Venedig, Rothschild, Der Bar ; ERTL, Himmelschlüssel ; FROMMEL, Das eiserne Kreuz ; BAUMBACH, Nicotiana, Der Goldbaum ; HEINE, Lorelei, Du bist wie eine Blume ; UHLAND, Schäfer's Sonntagsglied, Das Schloss am Meer ; CHAMISSO, Das Schloss Boncourt ; CLAUDIUS, Die Sterne, Der Riese Goliath ; GOETHE, Mignon, Erlkönig, Der Sänger ; SCHILLER, Der Jüngling am Bache.

LEANDER, Träumereien (selected by Van Daell), pp. 1-44.

Two papers will be set : (1) Prescribed texts and translation at sight ; questions on Grammar ; (2) the translation of English into German.

#### Ancient History.

1. General outlines of Greek History to the battle of Chaeronea, 338 B.C., as contained in *Fiffé's History of Greece* (Primer).
  2. General outlines of Roman History to the death of Augustus, as contained in *Creighton's History of Rome* (Primer).
- Geography relating to the history prescribed.  
One examination paper.

**Mathematics.**

ALGEBRA : Elementary Rules ; Highest Common Measure ; Lowest Common Multiple ; Fractions ; Square Root ; Simple Equations of one, two, and three unknown quantities ; Indices ; Squares ; Quadratics of one and two unknown quantities.

One examination paper.

GEOMETRY : Euclid, Books I, II, and III ; easy Deductions.

One examination paper.

**Elementary Experimental Science (Chemistry).**

Properties of Hydrogen, Chlorine, Oxygen, Sulphur, Nitrogen, Carbon, and their more important compounds. Nomenclature. Laws of combination of the elements. The Atomic Theory and Molecular Theory.

One examination paper.



## HONOR COURSE.

## Greek.

Translation into English of passages from prescribed texts.

Translation at sight of passages of average difficulty, similar to the authors read.

Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.

Translation into Greek of ordinary narrative passages of English, similar to the authors read.

The following are the prescribed texts :—

1900 : XENOPHON, *Anabasis I* (Chaps. I-VIII) ; HOMER, *Iliad I*, *Odyssey XV* ; LYSIAS, *Contra Eratosthenem*, and *Epitaphius*.

1901 : XENOPHON, *Anabasis I* (Chaps. I-VIII) ; HOMER, *Iliad I*, *Odyssey XV* ; LUCIAN, *Charon* (Heitland), and *Vera Historia II* (Jerram).

1902 : XENOPHON, *Anabasis I* (Chaps. I-VIII) ; HOMER, *Iliad VI* ; *Odyssey XVII* ; LUCIAN, *Charon* (Heitland), and *Vera Historia II* (Jerram).

Two examination papers.

## Latin.

Translation into English of passages from prescribed texts.

Translation at sight of passages of average difficulty, similar in style to the authors read.

Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.

Translation into Latin of easy passages of English, similar in style to the authors read.

The following are the prescribed texts :—

1900 : CAESAR, *Bellum Gallicum*, Bk. V ; VERGIL, *Aeneid*, Bk. II ; HORACE *Odes III, IV* ; LIVY XXI.

1901 : CAESAR, *Bellum Gallicum*, Bks. II, III ; VERGIL, *Aeneid*, Bk. II ; HORACE, *Odes I, II* ; LIVY XXI.

1902 : CAESAR, *Bellum Gallicum*, Bk. IV, omitting Chap. 17, and Bk. V Chaps. 1-23 ; VERGIL, *Aeneid II*, lines 1-505 ; HORACE, *Odes I, II* ; CICERO, *Pro Lege Manilia*, *Pro Marcello*, *Philippic XIV* (Harper's Text).

Two examination papers.

**English.**

**COMPOSITION:** An essay, to which special importance will be attached, on one of several themes set by the examiner.  
One examination paper.

**LITERATURE:** The candidate will be expected to have memorized some of the finest passages. Besides questions to test the candidate's familiarity with, and comprehension of, the following selections, questions may also be set to determine within reasonable limits his power of appreciating literary art.

**RHETORIC:** Reading of prose authors in connection with the study of rhetoric.

One examination paper.

**1900.**

**LONGFELLOW:** *Evangeline*, *A Psalm of Life*, *Wreck of the Hesperus*, "The day is done," *The Old Clock on the Stairs*, *The Fire of Driftwood*, *Resignation*, *The Warden of the Cinque Ports*, *Excelsior*, *The Bridge*, *A Gleam of Sunshine*.

**SHAKESPEARE:** *Macbeth*.

**MILTON:** *L'Allegro*, *Il Penseroso*, *Lycidas*, *On the Morning of Christ's Nativity*.

**WORDSWORTH** (*Palgrave's Golden Treasury of Songs and Lyrics*) *The Education of Nature* ("Three years she grew"), "She was a Phantom of delight," *A Lesson* ("There is a flower, the Lesser Celandine"), *To the Skylark*, *The Green Linnet*, *To the Cuckoo*, *To the Daisy*, and the following *Sonnets*, *To a Distant Friend* ("Why art thou silent"), *England and Switzerland* ("Two voices are there"), "Milton, thou shouldst be living at this hour," *Westminster Bridge*, *The Inner Vision* ("Most sweet it is with unlifted eyes"), ("O Friend! I know not which way I must look"), *To Sleep*, *Within King's College Chapel*.

**1901.**

**TENNYSON:** *Elaine*, *Lady of Shalott*, *St. Agnes' Eve*, *Sir Galahad*, *Lotos Eaters*, *Ulysses*, *Crossing the Bar*, *Early Spring*, "You ask me why," "Of old sat Freedom," "Love thou thy land," the six interlude songs and "Tears, idle tears," in "The Princess."

**MILTON:** *Paradise Lost*, Book VII.

**SHAKESPEARE:** *Julius Cæsar*.

**1902.**

**SCOTT:** *Lay of the Last Minstrel*.

**MILTON:** *Paradise Lost*, Book I.

**SHAKESPEARE:** *The Merchant of Venice*.

**French.**

The prescription of work in grammar, the translation of English into French and sight translation is the same for Honors as for the General course, but the examination will be of a more advanced character.

The following are the prescribed texts :—

1900 : ENAULT, le Chien du capitaine ; FEUILLET, la Fée, le Roman d'un jeune homme pauvre ; LABICHE, Voyage de M. Perrichon.

1901 : DE MAISTRE, Voyage autour de ma chambre ; LABICHE, la Grammaire ; ERCKMANN-CHATRIAN, Madame Thérèse ; LABICHE, la Poudre aux yeux.

1902 : LAMENNAIS, Paroles d'un croyant, Chaps. VII and XVII ; PERRAULT, le Maître Chat ou le Chat Botté ; DUMAS, Un nez gelé, and la Pipe de Jean Bart ; ALPHONSE DAUDET, la Dernière classe and la Chèvre de M. Seguin ; LEGOUVÉ, la Patte de dindon ; POUVILLON, Hortibus ; LOTI, Chagrin d'un vieux forçat ; MOLIÈRE, l'Avare, Acte III, sc. 5 (Est-ce à votre cocher... sous la mienne) ; VICTOR HUGO, Waterloo, Chap. IX ; ROUGET DE L'ISLE, la Marseillaise ; ARNAULT, la Feuille ; CHATEAUBRIAND, l'Exilé ; TRÉPHILE GAUTIER, la Chimère ; VICTOR HUGO, Extase ; LAMARTINE, l'Automne ; DE MUSSET, Tristesse ; SULLY PRUDHOMME, le Vase brisé ; LA FONTAINE, le Chêne et le Roseau.

MADAME EMILE DE GIRARDIN, la Joie fait peur.

MÉRIMÉE, Colomba.

**German.**

The prescription of work in grammar, the translation of English into German and sight translation is the same for Honors as for the General course, but the examination will be of a more advanced character.

The following are the prescribed texts :—

1900 : HAUFF, das kalte Herz, Kalif Storch ; EICHENDORFF, Aus dem Leben eines Taugenichts ; WILHELMI, Einer muss heiraten ; BENEDIX, Eigensinn.

1901 : LEANDER, Träumereien (selected by Van Daell) ; BAUMBACH, der Schwiegersohn ; GERSTÄCKER, Germelshausen ; ELZ, Er ist nicht eifersüchtig ; WICHERT, Post Festum.

1902 : GRIMM, Rotkäppchen ; ANDERSEN, Wie's der Alte macht, Das neue Kleid, Venedig, Rothschild, Der Bär ; ERTL, Himmelschlüssel ; FROMMEL, Das eiserne Kreuz ; BAUMBACH, Nicotiana, Der Goldbaum ; HEINE, Lorelei, Du bist wie eine Blume ; UHLAND, Schäfer's Sonntagsglied, Das Schloss am Meer ; CHAMISSE, Das Schloss Boncourt ; CLAUDIUS, Die Sterne, Der Riese Goliath ; GOETHE, Mignon, Erbkönig, Der Sänger ; SCHILLER, Der Jüngling am Bache.

LEANDER, Träumereien (selected by Van Daell), pp. 1.44.

EBNER-ESCHENBACH, Die Freiherren von Gemperlein ; WILHELMI, Einer muss heiraten.

BENEDIX, Eigensinn.

**History.**

English History from the discovery of America to 1763.

General outlines of Greek History to the battle of Chaeronea, 338 B.C. Special attention to be paid to the following: General characteristics of Greece and the Greeks; ancient institutions; constitution of Athens and Sparta; Persian wars; growth of the Athenian Empire; characteristics of the age of Pericles; Peloponnesian wars; rise of Thebes; Theban supremacy; rise of Macedon; downfall of Greece.

General outlines of Roman History to the death of Augustus. Special attention to be given to the following: General characteristics of Italy and the Roman people; struggle of the Plebeians for political and social equality; conquest of Italy; Punic wars; how Rome governed and was governed; internal and external History of Rome from the downfall of Carthage to the death of Augustus.

The Geography relating to the History prescribed.

One examination paper.

**Mathematics.**

ALGEBRA: Elementary Rules; Highest Common Measure; Lowest Common Multiple; Fractions; Square Root; Simple Equations of one, two and three unknown quantities; Indices; Surds; Quadratics of one and two unknown quantities; Theory of Divisors; Ratio, Proportion, and Variation; Progressions; Notation; Permutations and Combinations; Binomial Theorem; Interest Forms; Annuities.

One examination paper.

GEOMETRY: Euclid, Books I, II, III, IV, and VI; Definitions of Book V; Deductions.

One examination paper.

TRIGONOMETRY: Trigonometrical ratios with their relations to each other; Sines, etc., of the sum and difference of angles with deduced formulas; Use of Logarithms; Solution of Triangles; Expressions for the area of Triangles; Radii of circumscribed, inscribed, and escribed circles.

One examination paper.

PROBLEMS: One paper.

**Physics.**

MECHANICS: Measurement of velocity; uniformly accelerated rectilinear motion; metric units of force, work, energy and power; equilibrium of forces acting at a point; triangle, parallelogram, and polygon of forces; parallel forces; principle of moments; centre of gravity; laws of friction; numerical examples.

HYDROSTATICS: Fluid pressure at a point; pressure on a horizontal plane; pressure on an inclined plane; resultant vertical pressure, and resultant horizontal pressure, when fluid is under air pressure and when not; transmission of pressure; Bramah's press; equilibrium of liquids of unequal density in a bent tube; the barometer; air-pump; water-pump, common and force; siphon.



**ELECTRICITY** : Voltaic cells, common kinds ; chemical action in the cell ; magnetic effects of the current ; chemical effects of the current ; voltmeters ; electroplating ; astatic and tangent galvanometers ; simple notions of potential ; Ohm's law ; shunts ; measurement of resistance ; electric light, arc and incandescent ; current induction ; induction coil ; dynamo and motor ; the joule and watt ; electric bell ; telegraph ; telephone ; elements of terrestrial magnetism.

One examination paper.

### Chemistry.

**Chemical Theory.** The study of the following elements, with their most characteristic compounds, in illustration of Mendelejeff's Classification of the Elements : Hydrogen ; Sodium, Potassium ; Magnesium, Zinc ; Calcium, Strontium, Barium ; Boron, Aluminium ; Carbon, Silicon, Tin, Lead ; Nitrogen, Phosphorus, Arsenic, Antimony, Bismuth ; Oxygen, Sulphur ; Fluorine, Chlorine, Bromine, Iodine ; Manganese, Iron. Elementary Qualitative Analysis.

A practical examination shall be held in connection with this subject, a pure salt will be sent out for qualitative analysis, and the candidate shall be allowed the use of an analytical table.

One examination paper.

### Biology.

1. **ELEMENTS OF ZOOLOGY** : Thorough examination of the external form, the gills, and the viscera of some common fish. Study of the prepared skeleton of the same. Demonstration of the arrangement of the muscular and nervous systems and the sense-organs, as far as these can be studied without the aid of the microscope.

Comparison of the structure of the frog with that of the fish. The skeleton of the pectoral and pelvic girdles and of the appendages of the frog, should be studied, and the chief facts in the development of its spawn till the adult form is attained should be observed.

Examination of the external form of a turtle and a snake.

Examination of the structure of a bird.

Study of the skeleton, and also of the teeth of a cat or dog.

Study of the crayfish as a type of the Arthropods.

Comparison of the crayfish with an insect (grasshopper, cricket, or cockroach) ; also with a millipede and a spider.

Examination of an earthworm.

Study of a fresh-water mussel.

The principles of zoological nomenclature as illustrated by some of the common fresh-water fish, such as the sucker and herring, bass and perch.

Study of an *Amœba*, or paramœcium as a type of a unicellular animal.

The modifications of the form of the body in vertebrates in connection with different methods of locomotion. The natural habits of the various animals examined.

2. ELEMENTS OF BOTANY: The examination will test whether the candidate has practically studied representatives of the flowering plants of the locality in which the preparatory school is situated, and representatives of the chief subdivisions of cryptogams, such as a fern, a *Lycopod*, a horsetail, a liverwort, a moss, a lichen, a mushroom, and a chara.

-An elementary knowledge of the microscopic structure of the bean and the maize. Attention will be given in the examination to drawing and description of parts of plants supplied, and to their classification. Comparison of different organs, morphology of root, stem, leaves and hair, parts of the flower, reproduction of flowering plants, pollination, fertilization, and the nature of fruit and seeds.

A practical examination shall be held in connection with this subject. The material for examination will consist of two plants, a microscopic section and an animal.

Two examination papers.

### UNDERGRADUATE GENERAL COURSE.

The subjects to be taken by those pursuing the General Course, with the options permitted, are set forth in the following schedule;—

FIRST YEAR....English; Latin; any two of the following languages, viz., Greek, French, German, Hebrew; Ancient History; Mathematics; Physics or Biology.

SECOND YEAR....English; Latin; any two of the following languages, viz., Greek, French, German, Hebrew; Medieval History; Logic; Psychology; Chemistry or Geology.

THIRD YEAR....English; Latin; any two of the following languages, viz., Greek, French, German, Hebrew; Modern History as for honors; English Constitutional History; Ethics; Physics.

FOURTH YEAR....English; Latin; any two of the following languages, viz., Greek, French, German, Hebrew; Modern History as for Honors; Economics; Canadian Constitutional History; History of Philosophy; Astronomy.

NOTE.—Students who completed the examination of the First year in Arts, with Greek as the optional language, under the curriculum of 1891-1895 will be allowed to take, in the Second, Third and Fourth years, one of the languages:—French, German, Hebrew, as prescribed for students of the First, Second and Third years respectively. Students entering the University at the beginning of the Second year shall be allowed to take the Hebrew of the First, Second and Third years in the Second, Third and Fourth years respectively.

#### First Year.

##### English.

SHAKESPEARE.—Critical reading of the following plays:—

1900: Macbeth, The Tempest.

1901: Romeo and Juliet, Julius Caesar.

COMPOSITION: The writing of at least four original compositions in connection with the study of models of prose style. There will be no examination on this portion of the work, but the marks assigned for compositions written during the term will count as Term Work. Provision will be made by a special paper in English Composition for the examination of candidates for Senior Matriculation who are not in attendance, and who have not presented the essays required.

**Greek.**

1900: HOMER, *Odyssey*, Bks. XV, XVI; LYSIAS, *Contra Eratosthenem*, and *Epitaphius*.

1901: HOMER, *Odyssey*, XV, XVI; LUCIAN, *CHARON* (Heitland) and *Vera Historia II* (Jerram).

Greek Grammar: translation at sight of easy passages of Greek; translation from English into Greek, involving a knowledge of Fletcher and Nicholson's *Greek Prose Exercises* (1-40 inclusive).

**Latin.**

1900: LIVY, XXI; HORACE, *Odes*, Bks. III, IV.

1901: LIVY, XXI; HORACE, *Odes*, Bks. I, II.

Questions on Grammar and Prosody and on the subject-matter of the books will be added to the author papers.

Latin Grammar; Latin Composition; Latin sight translation (prose authors).

**French.**

Grammar; dictation; translation from English into French.

Translation at sight from easy modern French prose, and an examination on *SÉCUR, la Retraite de Moscou*, chaps. I-VII (Henry Holt & Co.).

**German.**

Grammar; dictation; translation from English into German; translation at sight from easy modern German prose.

**Hebrew.**

Essentials of Hebrew grammar; translation from English into Hebrew; outlines of ancient Semitic history and geography.

Translation into English of Genesis I-VI, XXXVII, XXXIX, XL, with grammatical analysis, parsing and vocabulary.

**Ancient History.**

General History of Greece (Botsford's *History of Greece*).

General History of Rome to A.D. 476 (Pelham's *Outlines of Roman History*).



**Mathematics.**

**ALGEBRA**: Simple Equations of one, two, and three unknown quantities; Quadratic Equations of one and two unknown quantities; Elementary Treatment of Variation, Proportion, and Progressions; Interest Forms and Annuities.

**EUCLID**: Bks. IV, VI, and definitions of Bk. V; Deductions.

**PLANE TRIGONOMETRY**: Trigonometrical Ratios with their relations to each other; Sines, etc., of the sum and difference of angles with deduced formulas; Solution of Triangles, Expressions for the Area of Triangles; Radii of Circumscribed, Inscribed and Escribed Circles.

**Physics.**

Elementary Physics (Mechanics, Hydrostatics, and Heat).

**Biology.**

Elementary Biology.

**Second Year.****English.**

**COMPOSITION**: The writing of at least four original compositions in connection with the study of models of prose style. There will be no examination on this part of the work, but marks assigned for compositions written during the term will count as Term Work.

1900: COLERIDGE, The Ancient Mariner, Ode to the Departing Year, France, Dejection, Youth and Age; WORDSWORTH, Lines written above Tintern Abbey, Ode on Intimations of Immortality, Michael, Ode to Duty, To the Cuckoo, "She was a phantom of delight," To a Skylark ("Ethereal minstrel, pilgrim of the sky"), and the following sonnets: "O Friend, I know not which way I must look," "The world is too much with us," "Milton! thou shouldst be living at this hour," "It is not to be thought of that the flood," "Scorn not the Sonnet," "Nuns fret not at their convent's narrow room," "I am not one who much or oft delight," "Wings have we, and as far as we can go," "Nor can I not believe."

1901: TENNYSON, Lancelot and Elaine, Holy Grail, Passing of Arthur.

**Greek.**

1900 and 1901: EURIPIDES, Ion; PLATO, Apology.

Greek Grammar; translation at sight of easy passages of Greek; translation from English into Greek, involving a knowledge of Fletcher and Nicholson's Greek Prose Exercises.

**Latin.**

1900: LIVY, V; CATULLUS (Simpson's Selections).  
 1901: LIVY, III; CATULLUS (Simpson's Selections).  
 Questions on Grammar and Prosody and on the subject-matter of the books,  
 will be added to the author papers.  
 Latin Grammar; Latin Composition; Latin sight translation (prose authors).

**French.**

Grammar; dictation; translation from English into French.  
 Translation at sight from modern French prose, and an examination on  
 "Choix de Contes contemporains," pp. 88-161 (ed. B. F. O'Connor, Henry  
 Holt & Co.).

**German.**

Grammar; dictation; translation from English into German; translation at  
 sight from modern German.

**Hebrew.**

Hebrew Grammar, with special attention to syntax; translation at sight;  
 translation of English into Hebrew.  
 Introduction to Hebrew literature and history.  
 Exodus I-V; Ruth; 1 Samuel XVII-XIX; 1 Kings V, VIII; 2 Kings XVI-  
 XIX.

**History.**

The chief movements in European History from A. D. 300 to 1300, including  
 the continuous History of the British Isles.  
 Essays will be required during the year, and the merits of these essays will  
 be taken into account in determining standing in the class lists.

**Logic.**

Formal and inductive.

**Psychology.**

Sensation, Thought, Emotion, Volition.

**Chemistry.**

Elementary Chemistry.

**Geology.**

Elementary Geology and Physical Geography.

**Third Year.****English.**

1900 : **SIXTEENTH AND SEVENTEENTH CENTURY LITERATURE.**—An outline of the history of literature from Wyatt and Surrey to the beginning of the Civil War, with special study of the following works :—

SPENSER, *Faerie Queen*, Book I ; SHAKESPEARE, *Romeo and Juliet*, *Twelfth Night*, *Othello* ; BACON, *Advancement of Learning*, Book I ; MILTON, *Areopagitica*, *Comus*, *Paradise Lost*, Books I, II, III.

1901 : **EIGHTEENTH CENTURY LITERATURE.**—An outline of the history of literature from Dryden to Burns, with special study of the following works :—

DRYDEN, *Absalom and Achitophel*, Pt. I.

BUNYAN, *Grace Abounding* ; ADDISON, *Selections in the Golden Treasury* ; SWIFT, *Gulliver's Travels*, Bks. I and II ; POPE, *Rape of the Lock*, *Prologue to the Satires* ; BUTLER, *Analogy* Pt. I, Chaps. II and III, Pt. II, Chap. VIII, and conclusion ; THOMSON, *Summer* ; JOHNSON, *Vanity of Human Wishes*, *Life of Pope* ; GOLDSMITH, *Deserted Village*, *Vicar of Wakefield* ; BURKE, *Conciliation with America* ; COWPER, *Task*, Bk. IV ; and the *Selections from Dryden, Collins, Gray and Burns*, in *Palgrave's Golden Treasury*.

**Greek.**

1900 : ARISTOPHANES, *Wasps* ; DEMOSTHENES, *De Pace*, *De Halonneso*, *De Chersoneso* (speeches numbered V, VII, VIII in Dindorf).

1901 : ARISTOPHANES, *Wasps* ; DEMOSTHENES, *Fourth Philippic*, *Answer to Philip's Letter*, *Philip's Letter*, *De Syntaxi* (Speeches X, XI, XII, XIII, in Dindorf).

Greek Grammar ; translation at sight of easy passages of Greek ; translation from English into Greek of easy prose passages.

**Latin.**

Latin Grammar and Composition.

Latin sight translation.

Lectures on Roman Literature as follows :—

1900 : (a) Roman Satire : HORACE, *Satires*, Bk. I, 4, 6, 10 ; JUVENAL, *Satire X*.

(b) Didactic Poetry : LUCRETIUS, *De Rerum Natura*, Bk. III, 830 to end of book ; VIRGIL, *Georgics*, B. IV (Sidgwick).

(c) History : TACITUS, *Annals*, Bk. I.

1901 : (a) Pastoral Poetry : VIRGIL, *Eclogues* I, VI, VIII, X (Sidgwick).

(b) Epic Poetry : VIRGIL, *Aeneid*, Bk. IX (Sidgwick).

(c) Roman Comedy : TERENCE, *Phormio* (Bond and Walpole).

(d) Roman Oratory : CICERO, *Pro Milone* (Purton).

**French.**

Grammar; dictation; translation from English into French; translation at sight from modern French.

An examination on the following texts:—

BOSSUET, Oraisons funèbres (Henriette de France); VOLTAIRE, Zadig; BERNARDIN DE SAINT-PIERRE, Paul et Virginie (Edition of Henry Holt & Company); ALPHONSE DAUDET, le Siège de Berlin et autres Contes (Jenkins).]

**German.**

Grammar; dictation; pronunciation; translation from English into German; translation at sight from modern German.

1900: Outlines of the history of German literature to 1770.

1901: Outlines of the history of German literature, from 1770 to the present time.

An examination on the following texts:—

1900: LESSING, Minna von Barnhelm; SCHILLER, Braut von Messina; KELLER, Dietegen; HEYSE, der verlorene Sohn.

1901: GOETHE, Iphigenie, Hermann und Dorothea; RIEHL, die Ganerben, die Gerechtigkeit Gottes.

**Hebrew.**

Composition and sight translation. General introduction to the prophetic writings.

Amos I, II; Isaiah I-VI, XL-XLV; Jeremiah IV-VIII; Ezekiel XIV, XXXIII; Nahum; Haggai.

History of Israel to the fall of Samaria.

**Modern History.**

The chief movements in European and American History from 1300 to 1763, including the continuous history of the British Empire, and of European effort in America.

Essays will be required during the year, and the merits of these essays will be taken into account in determining standing in the class lists.

**Constitutional History.**

English Constitutional History.

**Ethics.**

Theory of Obligation; Ethical Systems.

**Phys'cs.**

Elementary Physics (Acoustics and Physical Optics).



## Fourth Year.

## English.

1900 : SIXTEENTH AND SEVENTEENTH CENTURY LITERATURE.—An outline of the history of literature from Wyatt and Surrey to the beginning of the Civil War, with special study of the following works :—

SPENSER, *Faerie Queen*, Book I ; SHAKESPEARE, *Romeo and Juliet*, *Twelfth Night*, *Othello* ; BACON, *Advancement of Learning*, Book I ; MILTON, *Areopagitica*, *Comus*, *Paradise Lost*, Books I, II, III.

1901 : NINETEENTH CENTURY LITERATURE.—A general acquaintance with the character of the work of the following writers, together with a special study of the specified selections :—

WORDSWORTH, *Michael*, *Tintern Abbey* ; SHELLEY, *Adonais* ; SCOTT, *Old Mortality*, *Lay of the Last Minstrel* ; CARLYLE, *Essays on Burns*, *Biography*, *Johnson*, and *Characteristics* ; MACAULAY, *Essays on Boswell's Life of Johnson*, and *Memorials of Hampden* ; TENNYSON, *The Lady of Shalott*, *The Lotus-Eaters*, *Ulysses*, "You ask me why," "Of old sat Freedom," "Love thou thy land," *Morte d'Arthur*, *Northern Farmer—Old Style*, *The Revenge*, *The Ancient Sage*, *Freedom*, *To Virgil*, *The Two Greetings* ; R. BROWNING, *Saul*, *Fra Lippo Lippi*, *The Bishop Orders His Tomb*, *My Last Duchess*, *Up at a Villa*, *Love Among the Ruins*, *Two in the Campagna*, *Andrea del Sarto*, *Hervé Riel*, *A Death in the Desert*, *Pisgah Sights* ; and the selections in *Palgrave's Golden Treasury* from Wordsworth, Shelley, and Scott.

## Greek.

1900 : SOPHOCLES, *Trachiniae* ; PLATO, *Phædo*.

1901 : SOPHOCLES, *Edipus Rex* ; PLATO, *Phædo*.

Greek Grammar : translation at sight of easy passages of Greek ; translation from English into Greek of easy prose passages.

## Latin.

Latin Grammar and Composition.

Latin sight translation.

Lectures on Roman Literature, as follows :—

1900 : (a) Roman Satire : HORACE, *Satires*, Bk. I, 4, 6, 10 ; JUVENAL, *Satire X*.

(b) Didactic Poetry : LUCRETIUS, *De Rerum Natura*, Bk. III, 830 to end of book ; VIRGIL, *Georgics*, B. IV (Sidgwick).

(c) History : TACITUS, *Annals*, Bk. I.

1901 : (a) Pastoral Poetry : VIRGIL, *Eclogues*, I, VI, VIII, X (Sidgwick).

(b) Epic Poetry : VIRGIL, *Aeneid*, Bk. IX (Sidgwick).

(c) Roman Comedy : TERENCE, *Phormio* (Bond and Walpole).

(d) Roman Oratory : CICERO, *Pro Milone* (Purton).

Candidates of the Fourth year who have not passed in the Latin of the Third year will be required, at the B.A. Examination of 1900, to take an additional paper on the Third year work of 1899.

**French.**

Grammar; dictation; translation from English into French; translation at sight from modern French.

An examination on the following texts:—

LA FONTAINE, Fables, Book II; RACINE, *Andromaque*; MOLIÈRE, *les Précieuses Ridicules*; HUGO, *Hernani*; AUGIER, *le Gendre de Monsieur Poirier*; COPPÉE, *les Humbles*.

**German.**

Grammar; dictation; pronunciation; translation from English into German; translation at sight from modern German; outlines of the history of German literature as follows:—

1900: To 1770.

1901: From 1770.

An examination of the following texts:—

1900: LESSING, *Emilia Galotti*; BURGER and SCHILLER, *Balladen* (Golden Treasury Series); GOETHE, *Sesenheim* (Heath & Co.); GRIMM, *Das Kind*.

1901: LESSING, *Minna von Barnhelm*; GOETHE, *Balladen* (Golden Treasury Series); HEINE, *Prose Selections* (Colbeck); FREYTAG, *Aus dem Staat Friedrichs des Grossen* (Heath & Co.).

**Hebrew.**

Composition and sight translation. General principles and laws of Hebrew poetry. Introduction to the Poetical books.

Psalms I, II, VIII, XIX, XXIII, XXV, XXIX, XLV, XC-XCIV, CXXI-CXXVII; Proverbs I-IV, VIII, XXV; Job III-V; Ecclesiastes XII; Lamentations I.

Grammar of Biblical Aramaic, with selections from the Book of Daniel. History of Israel to the Maccabean period.

**Modern History.**

The chief movements in European and American History from 1763 to the present time, including, (a) the continuous History of the British Empire and the United States, and (b) the Philosophy of History.

Essays will be required during the year and the merits of these essays will be taken into account in determining standing in the class lists.

**Economics.**

The Elements of Economics.

**Constitutional History.**

Canadian Constitutional History.

**History of Philosophy.**

Modern Philosophy (Descartes to Kant).

**Astronomy.**

The Elements of Astronomy.

## UNDERGRADUATE HONOR COURSE.

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### DEPARTMENT OF CLASSICS.

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*Additional Requirements*.—Candidates in this Department are required to take the following subjects of the General Course in addition to the work prescribed below:—

FIRST YEAR....English; Mathematics; French or German or Hebrew, Physics or Biology.

SECOND YEAR....History; Psychology and Logic.

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### First Year.

#### Greek.

1900: HOMER, *Odyssey*, XV, XVI, XVII, XVIII; LYSIAS, *Contra Erastothenum*, and *Epitaphius*; HERODOTUS, VI.

1901: HOMER, *Odyssey*, XV, XVI, XVII, XVIII; LUCIAN, *Charon* (Heitland) and *Vera Historia II.* (Jerram), HERODOTUS, VII. (1-120).

Greek Grammar; translation at sight from Greek authors; translation from English into Greek Prose; Greek History (Botsford's *History of Greece*).

#### Latin.

1. Grammar, including Prosody. 2. Latin Prose Composition. 3. Sight Translation. 4. VIRGIL, *Aeneid*, Bks. V, VI; CICERO, *Philippic II.* 5. CICERO, *Pro Cluentio* and *Pro Murena*; HORACE, *Odes*, and *Carmen Saeculare*. 6. Pelham's *Outlines of Roman History*.

The questions in Grammar will be largely based on the prescribed authors; (4) and (5) will include questions on the contents, style, and literary history of the books.

**Second Year.**

**Greek.**

1900 : EURIPIDES, *Ion*; ARISTOPHANES, *Birds*; SOPHOCLES, *Edipus Coloneus*; THUCYDIDES, II; PLATO, *Apology*.

1901 : EURIPIDES, *Ion*; PLATO, *Apology*; ARISTOPHANES, *Birds*; SOPHOCLES, *Ajax*; THUCYDIDES, I.

Greek Grammar; translation at sight from Greek authors; translation from English into Greek prose; Greek History to B.C. 421 (Botsford's History of Greece; Grote's Greece, Part II, chaps. VI, XI, XXX, XXXI, XLV, XLVI).

**Latin.**

1. Grammar, including Prosody. 2. Composition. 3. Sight translation. 4. LIVY, Bks. III, IV, V, VI. 5. VIRGIL, *Aeneid*, Bks. VII, VIII, IX; HORACE, *Epistles* and *Ars Poetica*; TERENCE, *Andria*. 6. Roman History to B.C. 266 (Mommsen, Bks. I, II, and Fustel de Coulanges' *La Cité Antique*).

The questions in History will be based as far as possible on the LIVY in (4), and will have reference mainly to the constitutional struggles from 509 to 287, B.C.; (5) and (6) will include questions on the contents, style, and literary history of the books. In connection with (5) students will read Sellar's *Horace* (in "The Roman Poets of the Augustan Age").

**Third Year.**

**Greek.**

1. PLATO, *Republic*, Bks. I-IV, and *Apology*. 2. ARISTOTLE, *Ethics*, Bks. I-IV, and Bk. X, chap. VI to the end. 3. THUCYDIDES, Bk. III. 4. PINDAR, *Olympian Odes*, I, II, VI, VII. 5. SOPHOCLES, *Edipus Rex*. 6. ARISTOPHANES and DEMOSTHENES (or LYSIAS), as follows:—

1900 : ARISTOPHANES, *Wasps*; DEMOSTHENES, *De Pace*, *De Halonneso*, *De Chersoneso* (speeches V, VII and VIII in Dindorf).

1901 : ARISTOPHANES, *Wasps*; DEMOSTHENES, *Fourth Philippic*, *Answer to Philip's Letter*, *Philip's Letter*, *De Syntaxi* (speeches X, XI, XII, XIII, in Dindorf).

Greek Grammar and Philology (King and Cookson's Introduction, omitting syntax); translation at sight from Greek authors; translation from English into Greek prose; Greek History from B.C. 421 to B.C. 362 (Botsford's History of Greece; Grote's History of Greece, Chaps. LXVII and LXVIII); Greek Philosophy, up to Aristotle (Mayor's History of Ancient Philosophy; but the questions will be chiefly based on the books read.)



**Latin.**

1. Grammar and Philology (King & Cookson's Introduction, omitting Syntax). 2. Latin Prose Composition. 3. Latin Sight Translation. 4. Roman History from B.C. 266 to B.C. 78 (Mommsen, Bks. III, IV). 5. Roman Satire: HORACE, Satires; PERSIUS, Satire I; JUVENAL, Satires I-XIII (omitting II, IV, VI, IX). 6. PLAUTUS, Trinummus, Captivi. 7. VIRGIL, Aeneid, X, XI, XII. 8. CICERO, De Finibus, Bks. I, II (with the outlines of the Stoic and the Epicurean Philosophy). 9. TACITUS, Annals, Bks. I, II, III (with an introduction to the History of the Roman Principate).

NOTE.—Candidates are recommended to read with (5) SELLAR'S, HORACE, INGE'S Society in Rome under the Cæsars, and MARTHA'S Les Moralistes romains; and with (6) SELLAR'S Roman Poets of the Republic, Chap. VI.

**Fourth Year.****Greek.**

1. Prose Composition. 2. Sight translation. 3. ÆSCHYLUS, Agamemnon; HOMER, Iliad, I, VI, XVIII, XXII-XXIV; THEOCRITUS, Idylls, I, IV, VII, VIII, XIII, XV, XXI. 4. PLATO, Republic. 5. THUCYDIDES, I, II, III, VI, VII, VIII; HERODOTUS, VII, VIII, IX. 6. ARISTOTLE, Ethics, I-IV and Bk. X, chap. 6 to end; Politics, II; Greek History: the questions will be based on the authors read and on the period covered by these authors, and on Grote's History, Part I, chaps. XV, XVI, XVII, XX, XXI. 7. Greek Philosophy: questions will be based on the prescribed portions of Plato and Aristotle, and on Greek Philosophy generally up to Aristotle's time; Weber's History of Philosophy, Part I (translated by Thilly). 8. ARISTOTLE, Poetics, with the history of the Greek genius and Greek poetry, so far as covered by the following books: Butcher's Aspects of Greek Genius (2nd edition), Matthew Arnold's Essays on translating Homer, Butcher's Essays in his edition of the Poetics, Jebb's Growth and Influence of Classical Greek Poetry, MOULTON'S Ancient Classical Drama. 9. ARISTOTLE'S Politics, Books I and III (Hicks-Susemihl), with questions on Warde Fowler's City State, Fustel de Coulanges' La Cité Antique and Newman's Introduction to the Politics of Aristotle, Vol. I; or, Comparative Syntax, Greek and Latin (*vide* Latin course below for details).

**Latin.**

1. Latin Prose Composition. 2. Latin Sight Translation. 3. Roman History from B.C. 78 to A. D. 37 (Mommsen Bk. V; Merivale, Vols. III, IV, V). 4. SALLUST, Catiline; CICERO, Epistles (Watson's Selection); TACITUS, Annals, Bks. I-VI; Monumentum Ancyranum (Mommsen, second edition). 5. LUCRETIUS, Bks. I, III, V, and VIRGIL, Bucolics, Georgics and Aeneid. 6. QUINTILLIAN, Bk. X (with the History of Roman Poetry to A. D. 120, with special reference to the influence of Roman upon English Literature). 7. CICERO, De Finibus,

Bks. I-IV; *Academica* (Reid). 8. Post-Aristotelian Philosophy (Zeller's Stoics, Epicureans and Skeptics; Zeller's Eclectics, Chaps. IV, V; Weber). 9. (As an option with §9 of the Greek course above) Lectures on the Descriptive and Comparative Syntax of the Greek and Latin languages, as follows: (a) the substantive, number, gender, and case; (b) the verb, voice, mood and tense; (c) particles and prepositions. Students will use Thompson's Greek Syntax, Goodwin's Greek Moods and Tenses, Gildersleeve's Latin Grammar, Roby's Latin Grammar, Bennett's Appendix.

NOTE.—With (4) candidates are recommended to read BOISSIER'S *L'Opposition sous les Césars* and *La Religion romaine*. With (5) and (6) candidates are recommended to read SELLAR'S *Roman Poets of the Republic*, Chaps. XI-XIV; MARTHA'S *Poème de Lucrèce*; SELLAR'S *Virgil*; SAINTE-BEUVE'S *Étude sur Virgile*; MYERS' *Essay on Virgil*; TYRRELL'S *Roman Poetry*; MACKAIL'S *Roman Literature*.

NOTE.—The Education Department of Ontario accepts an honor degree of the University of Toronto obtained in the above course as the non-professional qualification for specialists standing in the department of Classics.

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DEPARTMENT OF MODERN LANGUAGES.

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*Additional requirements.*—Candidates in this Department are required to take the following subjects of the General course in addition to the work prescribed below:

FIRST YEAR.....Latin; Mathematics; Physics or Biology.

SECOND YEAR....Latin; History; Psychology.

THIRD YEAR....History.

*Term Work in Honors.*—Every candidate for Honors in this Department shall, during the Fourth Year of his course, write an essay on some subject connected with the work of the Department, such subject to be previously approved by the professor of the branch of study selected by the candidate. This essay shall, on or before the 1st of April in each year, be laid before the Professors and Lecturers in the Department of Modern Languages in the University of Toronto, University College and Victoria University, who shall examine the essay and assign marks according to their judgment of its merit. These marks shall be reported to the Registrar, and shall be taken into account by the Examiners in determining the standing of the candidate at the Examination of the Fourth year.

*Options in Honors.*—Candidates for Honors in this Department are allowed options in the various years, according to the following schedule:

FIRST YEAR.....Italian or Spanish.

SECOND YEAR....Italian or Spanish.

THIRD YEAR....Italian or Spanish or Honor Modern History (the last option for specialist standing, Education Department).

FOURTH YEAR....Old English or Italian or Spanish or Honor Modern History together with a paper on Historical English Grammar (the last option for specialist standing, Education Department).

### First Year.

#### Phonetics.

An elementary knowledge of physiological phonetics will be required, and of its bearing upon the sounds of the various languages studied.

#### English.

SHAKESPEARE: Critical reading of the following plays:—

1900: Macbeth, The Tempest, Henry IV, Pts. I and II.

1901: Romeo and Juliet, Julius Caesar, Henry V.

COMPOSITION: The writing of at least four original compositions in connection with the study of models of prose style. There will be no examination on this portion of the work, but the marks assigned for compositions written during the term will count as one paper at the Annual Examinations.

PROSE AND RHETORIC: Reading of the following selections in connection with the study of Rhetoric:—

1900 and 1901: Garnett's English Prose, Selections from Scott to Carlyle inclusive, omitting those from Southey and Landor.

#### French.

Grammar; pronunciation; translation from English into French.

Translation at sight from modern French, and an examination on G. E. Fasnacht's Select Specimens of the Great French Writers: pp. 289-293; 296-299; 336-344; 352-357; 367-374; 380-385; 386-390; 405-409; 416-421; 430-436; 455-465; 479-481; 485-486; 506-509; 513-516; 525-528; 532-540; 543-547; 554-561; 564-568; 576-581; 583-587 (Macmillan).

#### German.

Grammar; dictation; pronunciation; translation from English into German; translation at sight from modern German.

1900: Outlines of the history of German literature to 1740.

**Italian.**

A written examination on grammar; the translation of easy passages from English into Italian; the translation at sight of easy modern Italian prose; dictation.

An oral examination in Italian, as a test of pronunciation and of ability to understand easy modern narrative and to answer questions based thereon.

**Spanish.**

A written examination on grammar; the translation of easy passages from English into Spanish; the translation at sight of easy modern Spanish prose; dictation.

An oral examination in Spanish, as a test of pronunciation and of ability to understand easy modern narrative and to answer questions based thereon.

**Second Year.**

**English.**

COMPOSITION: The writing of at least four original compositions in connection with the study of models of prose style. There will be no examination on this part of the work, but marks assigned for compositions written during the term will count as one paper at the Annual Examinations.

VERSIFICATION: A knowledge of elementary principles, such as is to be found in Gummere's Poetics, Part III.

1900: COLERIDGE, The Ancient Mariner, Ode to the Departing Year, France, Dejection, Youth and Age; WORDSWORTH, Lines written above Tintern Abbey, Ode on Intimations of Immortality, Michael, Ode to Duty, To the Cuckoo, "She was a phantom of delight," To a Skylark ("Ethereal minstrel, pilgrim of the Sky"), and the following sonnets: "O Friend, I know not which way I must look," "The world is too much with us," "Milton! Thou shouldst be living at this hour," "It is not to be thought of that the flood," "Scorn not the Sonnet," "Nuns fret not at their convent's narrow room," "I am not one who much or oft delight," "Wings have we, and as far as we can go," "Nor can I not believe"; CHAUCER, Prologue, Nun's Priest's Tale, Squire's Tale (Chaucer, Selections from Canterbury Tales, ed. Corson); Garnett's English Prose, the selections from Dryden to Gibbon inclusive, omitting those from Steele and Bolingbroke.

1901: TENNYSON, Lancelot and Elaine, Holy Grail, Passing of Arthur; CHAUCER, Prologue, Nun's Priest's Tale; BURKE, Conciliation with America; MACAULAY, Warren Hastings.

**French.**

Grammar; composition and conversation in French; translation from English into French; translation at sight from modern French.

History of French literature in the 17th century, and outlines of the preceding periods.



An examination on the following texts:—

CORNEILLE, *le Cid*; RACINE, *Iphigénie*; BOILEAU, *l'Art poétique*, Cantos I and II; LA FONTAINE, *Fables*, Book I; LA BRUYÈRE, *Caractères* (de la cour); BOSSUET, *Oraisons funèbres* (Henriette de France); MOLIÈRE, *le Misanthrope*, *l'Avare*, *le Bourgeois gentilhomme*.

#### German.

Grammar; dictation; an oral examination; translation from English into German; translation at sight.

1900: Outlines of the history of German literature to 1770.

1901: Outlines of the history of German literature from 1770 to the present time.

An examination on the following texts:—

1900: LESSING, *Emilia Galotti*; BÜRGER, SCHILLER, *Balladen* (Golden Treasury Series); GOETHE, *Sesenheim* (Heath & Co.); GRIMM, *Das Kind*.

1901: LESSING, *Minna von Barnhelm*; GOETHE, *Balladen* (Golden Treasury Series); HEINE, *Prose Selections* (Colbeck); FREYTAG, *Aus dem Staat Friedrichs des Grossen* (Heath & Co.).

#### Italian.

A written examination on grammar; the translation of English into Italian; the translation at sight of modern Italian; dictation; composition in Italian on familiar topics; outlines of the history of Italian literature.

An oral examination in Italian, as a test of pronunciation and of ability to understand modern prose and to answer questions based thereon.

#### Spanish.

A written examination on grammar; the translation of English into Spanish; the translation at sight of modern Spanish; dictation; composition in Spanish on familiar topics; outlines of the history of Spanish literature.

An oral examination in Spanish, as a test of pronunciation and of ability to understand modern prose and to answer questions based thereon.

### Third Year.

#### English.

1900: SIXTEENTH AND SEVENTEENTH CENTURY LITERATURE.—An outline of the history of literature from Wyatt and Surrey to the beginning of the Civil Wars, with special study of the following works:—

SPENSER, *Faerie Queen*, Book I; SHAKESPEARE, *Romeo and Juliet*, *Twelfth Night*, *Othello*; BACON, *Advancement of Learning*, Book I; MILTON, *Areopagitica*, *Comus*, *Paradise Lost*, Books I, II, IV; together with the selections

from Wyatt, Surrey, Sidney, Marlowe, Shakespeare, Elizabethan Miscellanies, Chapman, and Donne, in Ward's English Poets, Vol. I, and the extracts from Lyly to Milton (inclusive) contained in Garnett's English Prose Selections.

OLD ENGLISH: Sweet's Anglo-Saxon Reader (7th edition), Secs. III, V, XIV, XVI, XXIII.

1901: NINETEENTH CENTURY LITERATURE.—A general acquaintance with the work of the following writers, together with a special study of the specified selections:—

WORDSWORTH, Michael, Tintern Abbey; SCOTT, Old Mortality, Lay of the Last Minstrel; SHELLEY, Adonais; CARLYLE, Essays on Burns, Johnson Biography, Characteristics; MACAULAY, Essay on Boswell's Life of Johnson and Memorials of Hampden; TENNYSON, "You ask me why," "Of old sat Freedom," "Love thou thy land," The Lady of Shalott, The Lotos-Eaters, Ulysses, Morte d'Arthur, Northern Farmer, Old Style, The Revenge, The Ancient Sage, Freedom, To Virgil, The Two Greetings. R. BROWNING, Saul, Fra Lippo Lippi, The Bishop Orders His Tomb, My Last Duchess, Up at a Villa, Love Among the Ruins, Two in the Campagna, Andrea del Sarto, Hervé Riel, A Death in the Desert, Pisgah Sights; and the selections from WORDSWORTH, SCOTT, and SHELLEY in Palgrave's Golden Treasury.

COMPOSITION: The writing during the term of at least four original essays upon subjects connected with the work in literature. The marks assigned to these essays will be taken into account in determining Honor standing.

OLD ENGLISH: Sweet's Anglo-Saxon Reader (7th edition), Secs. II, IV, VI, VIII, XIII, XV, XXIV, XXVI; or Bright's Anglo-Saxon Reader, Secs. V, VI, VIII, XIV, XVI, XXIII, XXIV (ll. 1-84).

#### French.

Grammar; composition and conversation in French; translation from English into French; translation at sight from modern French; Old French Grammar; elements of French phonology; history of French literature during the 18th century. An examination on the following texts:—

FONTENELLE, Entretiens sur la pluralité des Mondes, I, II, III; LE SAGE, Turcaret; VOLTAIRE, Zaire, Zadig; ROUSSEAU, Pages choisies des grands Écrivains, J.-J. Rousseau, par Rocheblave, Parts III and IV; DIDEROT, Extraits à l'usage des classes supérieures, par Fallex, Belles-Lettres; BEAUMARCHAIS, le Barbier de Séville; ANDRÉ CHÉNIER, Poésies choisies, à l'usage des classes, par Beq de Fouquières, Hymnes et Odes; CHATEAUBRIAND, Atala; MADAME DE STAËL, de l'Allemagne, Part I; CHANSON DE ROLAND, lines 1-365 (Clédat's edition).

#### German.

Grammar; an oral examination, which shall also test the candidate's ability to carry on a simple conversation in German; translation at sight; translation from English into German, and an original essay in German; a general acquaintance with German literature from Gottsched to the death of Schiller, with special reference to the following authors and works:—

1900: WIELAND, *Oberon*, 8 and 9; LESSING, *Prosa in Auswahl*, III (Göschel); BÜRGER, SCHILLER, *Balladen* (Golden Treasury Series); HERDER, *Ausgewählte Dichtungen*, III, IV, V (Cotta's Schulausgaben Deutscher Classiker); SCHILLER, *Kabale und Liebe*, *Wilhelm Tell*; GOETHE, *Poems* (Hartleben, *Goethe-Brevier*, pp. 1-197), *Iphigenie*, *Hermann und Dorothea*.

1901: KLOPSTOCK, *Messias*, Canto II; LESSING, *Minna von Barnhelm*, *Nathan der Weise*; SCHILLER, *Lyrical Poems* (Turner and Morshead); GOETHE, *Leiden des jungen Werthers*, *Poems* (Hartleben *Goethe-Brevier*, pp. 1-197), *Faust*, Part I (the edition of Calvin Thomas, published by D. C. Heath & Co., is recommended), and a knowledge of the plan of Part II.

#### Italian.

A written examination on grammar; the translation of Italian at sight; dictation; history of Italian literature to the end of the 15th century; and on the following texts:—

DANTE, *Inferno*, Cantos I-V, and *Purgatorio*, Cantos I, II, IX, X, XXX; PETRARCA, extracts in *Torraca's Manuale* (3rd ed.), Vol. I, pp. 233-34 (sonnets Nos. 3, 12, 22), pp. 242-43 (canzone, No. 11), pp. 245-47 (sonnets Nos. 88, 89, 90, 108, 110, 137), pp. 257-60 (canzone, No. 4), pp. 262-64 (*Trionfo della Morte*); BOCCACCIO, extracts in *Torraca's Manuale*, Vol. I, pp. 332-43, 348-53, 364-67; extracts from various authors, beginning on the following pages of *Torraca's Manuale*, Vol. I: 28, 31 (1st ext.), 38 (1st ext.), 52, 56 (last ext.), 59, 66 (2nd ext.), 72, 81, 92 (1st ext.), 107, 217, 264 (last sonnet), 267 (*Deh fammi*, etc.), 281, 302, 371, 392 (prose), 425, 429-30 (*Se in tutto*, etc.), 440-42 (*Pietà . . . ferma*), 444 (*Rispetti* Nos. 73, 78), 459-60 (*E come, etc. . . . morto*), 488 (prose), 490-92 (*Vuoi cantar*, etc.), 511-13 (*Mentre che etc. . . . rivelato*).

An oral examination in Italian, as a test of pronunciation and of ability to understand modern prose and to answer questions based thereon.

#### Spanish.

A written examination on grammar; the translation of Spanish at sight; dictation; history of Spanish literature to the death of Cervantes, exclusive of the drama; and on the following texts:—

CERVANTES, *Don Quijote*, Part I, Chaps. I-X; extracts from various authors in the *Curso de Literatura de García Al-Deguer y Giner de los Ríos*, beginning on the following pages: 21, 31, 32, 34, 46 (1st ext.), 50 (1st ext.), 52 (3rd ext.), 55 (1st ext.), 71, 77-82, 109, 111 (76 ll.), 125 (2 exts.), 128 (last ext.), 134 (1st ext.), 160, 165 (1st ext.), 171 (2 exts.), 175 (1st ext.), 186, 243, 253, 264, 269, 271 (1st ext.); extracts from various authors in Keller's *Altspanisches Lesebuch*, beginning on the following pages: 1 (209 ll.), 43, 55, 72 (2nd ext.), 90, 106, 111, 131 (3rd ext.).

An oral examination in Spanish, as a test of pronunciation and of ability to understand modern prose and to answer questions based thereon.

Fourth Year.

English.

1900: SIXTEENTH AND SEVENTEENTH CENTURY LITERATURE: An outline of the history of literature from Wyatt and Surrey to the beginning of the Civil Wars, with special study of the following works:—

SPENSER, *Faerie Queen*, Book I; SHAKESPEARE, *Romeo and Juliet*, *Twelfth Night*, *Othello*; BACON, *Advancement of Learning*, Book I; MILTON, *Areopagitica*, *Comus*, *Paradise Lost*, Books I, II, IV; together with the extracts from Wyatt, Surrey, Sidney, Marlowe, Shakespeare, Elizabethan Miscellanies, Chapman, and Donne in *Ward's English Poets*, Vol. I, and the extracts from Lyly to Milton (inclusive) contained in *Garnett's English Prose*.

THE HISTORY OF THE ENGLISH DRAMA from its origin to the death of Shakespeare.

The following works are to be studied critically: SHAKESPEARE, *Hamlet*, *The Tempest*, *Henry VIII*.

The following works are to be read carefully: Pollard's *Miracle Plays*, the selections entitled *The Fall of Lucifer*, *Noah's Flood*, *The Sacrifice of Isaac*, *Secunda Pastorum*, *The Castle of Perseverance*, *The Pardoner and the Friar*; Gorboduc; MARLOWE, *Tamburlaine*, Pt. I, and *Edward II*; GREENE, *Friar Bacon and Friar Bungay*; SHAKESPEARE, *Love's Labors Lost*, *Midsummer Night's Dream*, *King John*, *Richard III*; JONSON, *Every Man in his Humour*; MILTON, *Samson Agonistes*.

NINETEENTH CENTURY LITERATURE: TENNYSON, *In Memoriam*.

OLD ENGLISH: CAEDMON, *Exodus and Daniel* (Ginn & Co.); *Historical Grammar*, and *Sweet's First Middle English Primer*.

1901: THE HISTORY OF THE ENGLISH DRAMA from its origin to the death of Shakespeare.

The following works are to be studied critically: SHAKESPEARE, *Midsummer Night's Dream*, *Hamlet*, *Lear*, *Cymbeline*.

The following works are to be read carefully: *Creation and Fall II*, *Abraham and Isaac*, *The Second Shepherd's Play*, *The Four PP.*, *Campaspe*, *James IV.* (all these are contained in *Manly's Specimens of the Pre-Shakespearean Drama*); MARLOWE, *Tamburlaine*, Pt. I, *Edward II*; BEN JONSON, *Every Man in His Humour*; SHAKESPEARE, *Love's Labours Lost*; *Much Ado About Nothing*, *Antony and Cleopatra*; MILTON, *Comus*, *Samson Agonistes*.

OLD ENGLISH: BEOWULF, ll. 1-1250, to be studied critically in the original; a general knowledge of the remainder of the poem will be expected, which may be gained from Hall's, Earle's, or Garnet's translation; *Historical Grammar*, and *Sweet's Second Middle English Primer*.



**French.**

Grammar; composition and conversation in French; translation from English into French; translation at sight from French authors of any period; history of the French language; history of French literature during the 19th century.

An examination on the following texts:—

LAMARTINE, *Premières Méditations poétiques*, I-XV (Lemerre); HUGO, *Chants du Crépuscule*, I-XX, *Notre-Dame de Paris*, *Hernani*; BALZAC, *Eugénie Grandet* (Calmann Lévy); AUGIER, *le Gendre de Monsieur Poirier*; GEORGE SAND, *la petite Fadette*; ALPHONSE DAUDET, *Tartarin sur les Alpes* (Collection Guillaume, Marpon et Flammarion); SAINTE-BEUVE, *Portraits littéraires*, Vol. II, *Article on Molière*; LECONTE DE LISLE, *Poèmes barbares*, pp. 1-55, 166-217 (Lemerre).

**German.**

Grammar; an oral examination as in the Third year; translation at sight; translation from English into German; a general acquaintance with German literature from the death of Schiller to the present day, with special reference to the following authors and works:—

1900: SCHILLER, *Wallenstein's Tod*; GOETHE, *Dichtung und Wahrheit* (ed. Jagemann); KLEIST, *Käthchen von Heilbronn*; HEINE, *Prose* (Clarendon Press); FREYTAG, *Soll und Haben* (Abdg. Crump); STUDERMANN, *Johannes*; HEYSE, *Novellen*, *Das Mädchen von Treppi*, *Maria Francisca*, *Andrea Delfin*.

1901: SCHILLER, *Braut von Messina*; GOETHE, *Faust*, Part I, Part II, *Acts IV, V* (the edition of Calvin Thomas, published by D. C. Heath & Co., is recommended); GRILLPARZER, *Sappho*; UHLAND, *Ballads* (Golden Treasury Series); HEINE, *Selected Poems* (ed. White); KELLER, *Romeo und Julie auf dem Dorfe*; SCHEFFEL, *Ekkehard*; HAUPTMANN, *die versunkene Glocke*.

Elements of Middle High German grammar; history of Middle High German literature; an examination on the following texts:—

1900: *Walther von der Vogelweide* (ed. Pfeiffer), *Select Poems*, Nos. 1, 2, 4-7, 9, 14, 18, 20, 24, 25, 32, 34, 36, 37, 39, 53, 60, 61, 66, 69, 71-75, 77, 81-83, 85, 87, 88, 97, 99-101, 109, 110, 113, 115-117, 127, 128, 134, 137, 148-151, 154, 166, 167, 172, 181, 188.

1901: *Nibelungenlied* (Bartsch), *Avv. I, V, XVI, XXIX, XXXIX*.  
History of the German language.

**Italian.**

A written examination on grammar; the translation of Italian at sight; dictation; history of Italian literature from Ariosto, inclusive, to the present time; the elements of historical phonology; and on the following texts:—

ARIOSTO, in *Torraca's Manuale* (3rd ed.), Vol. II, pp. 17-19 (22 stanzas), 24-30; TASSO, in *Torraca's Manuale*, Vol. II, pp. 142-43, 171-173, 176-177,

179-82 (Ma, poi...strano), 183-86 (Signor, non...croce), 188-92 (Qual lupo...voto); extracts from various authors, on the following pages of *Torraca's Manuale*, Vol. II: 125, 131, 198 (1st ext.), 214-15 (Crim d'oro...posso), 218 (two sonnets), 222 (1st sonnet), 238 (2nd sonnet), 241 (Chiome...mia), 253-57, 283-4 (Nos. 6-46), 331, 342, 354 (1st ext.); and of Vol. III, on the following pages: 10-12, 47-8 (12 stanzas), 62-64 (La Fama...consorte); 96 (Qual madre...concede); 173-4, 211, 234, 240-42, 288-90, 317-319, 374-5 (Poi...morio), 407-9 (A egregie...canto), 481, 499-504, 517, 568-71 (La donzelletta...scrittori).

An oral examination in Italian, as a test of pronunciation and of ability to understand prose or verse not earlier than Ariosto, and to answer questions based thereon.

### Spanish.

A written examination on grammar; the translation of Spanish at sight; dictation; history of Spanish literature from 1600 to the present time, including also the history of the drama previous to that date; the elements of historical phonology; and on the following texts:—

CALDERON, *El Principe Constante*; extracts from various authors in the *Curso de Literatura de Garcia Al-Deguér y Giner de los Ríos*, beginning on the following pages: 38-42 (Ah, mingo...valiente), 57-60, 201 (2nd ext.), 205-7, 277, 300, 317-19, 326-28, 331-33, 340-42, 354 (1st ext.), 365-68, 384, 432 (2nd ext.), 435 (1st ext.), 475-78, 502-5, 523, 527 (1st ext.), 541, 544, 551, 572, 585, 596, 641-46; 682-84, 711-16; and the extracts beginning on the following pages of Keller's *Altspanisches Lesebuch*: 8-10, 119-22.

An oral examination in Spanish, as a test of pronunciation and of ability to understand Spanish prose or verse not earlier than Cervantes, and to answer questions based thereon.

NOTE.—The Education Department of Ontario accepts an honor degree of the University of Toronto, obtained in the above course, as the non-professional qualification for specialist standing in the department of Modern Languages and History. See option at head of course.

UNIVERSITY AND UNIVERSITY COLLEGE  
DEPARTMENT OF ENGLISH AND HISTORY.

*Additional requirements*:—Candidates in this Department are required to take the following subjects of the General course in addition to the work prescribed below:—

FIRST YEAR....French or German or Italian or Hebrew; Mathematics; Biology or Physics.

SECOND YEAR....The language of the Second year selected in the First year; Psychology.

**First Year.**

**English.**

SHAKESPEARE: Critical reading of the following plays:—

1900: *Macbeth*, *The Tempest*, *Henry IV*, Pts. I and II.

1901: *Romeo and Juliet*, *Julius Caesar*, *Henry V*.

COMPOSITION: The writing of at least four original compositions in connection with the study of models of prose style. There will be no examination on this portion of the work, but the marks assigned for compositions written during the term will count as one paper at the Annual Examinations.

PROSE AND RHETORIC: Reading of the following selections in connection with the study of Rhetoric:—

1900 and 1901: Garnett's *English Prose*, selections from Scott to Carlyle inclusive, omitting those from Southey and Landor.

**†Greek.**

1900: HOMER, *Odyssey*, XV, XVI, XVII, XVIII; LYSIAS, *Contra Erastothenum*, and *Epitaphius*.

1901: HOMER, *Odyssey*, XV, XVI, XVII, XVIII; LUCIAN, *Charon* (Heitland) and *Vera Historia II* (Jerram).

Greek Grammar; translation at sight from Greek authors; translation from English into Greek prose; Greek History (*Botsford's History of Greece*).

**†Latin.**

1. Grammar (including Prosody). 2. Latin Prose Composition. 3. Sight Translation. 4. VIRGIL, *Aeneid*, Bks. V, VI; CICERO, *Philippic II*. 5. Pelham's *Outlines of Roman History* (to A. D. 476).

The questions in Grammar will be largely based on the prescribed authors; (4) will include questions on the contents, style, and literary history of the books.

†In the Greek and Latin subjects of this course the same examination papers will be set as in the corresponding subjects of the Classical Honor course, and the standard required will be the same.

**Second Year.**

**English.**

**COMPOSITION:** The writing of at least four original compositions in connection with the study of models of prose style. There will be no examination on this part of the work, but marks assigned for compositions written during the term will count as one paper at the Annual Examinations.

**VERSIFICATION:** A knowledge of elementary principles, such as is to be found in Gummere's Poetics, Part III.

1900: COLERIDGE, The Ancient Mariner, Ode to the Departing Year, France, Dejection, Youth and Age; WORDSWORTH, Lines written above Tintern Abbey, Ode on Intimations of Immortality, Michael, Ode to Duty, To the Cuckoo, "She was a Phantom of Delight," To a Skylark ("Ethereal minstrel, pilgrim of the sky"), and the following sonnets: "O Friend, I know not which way I must look," "The world is too much with us," "Milton! thou shouldst be living at this hour," "It is not to be thought of that the flood," "Scorn not the Sonnet," "Nun's fret not at their convent's narrow room," "I am not one who much or oft delight," "Wings have we, and as far as we can go," "Nor can I not believe"; CHAUCER, Prologue, Nun's Priest's Tale, and Squire's Tale (Chaucer, Selections from Canterbury Tales, ed. Corson); Garnett's English Prose, the selections from Dryden to Gibbon inclusive, omitting Steele and Bolingbroke.

1901: TENNYSON, Lancelot and Elaine, Holy Grail, Passing of Arthur; CHAUCER, Prologue, Nun's Priests' Tale; BURKE, Conciliation with America; MACAULAY, Warren Hastings.

**+ Greek.**

1900 and 1901: EURIPIDES, Ion; PLATO, Apology.

Greek Grammar; translation at sight from Greek authors; translation from English into Greek prose.

**+ Latin.**

1. Grammar (including Prosody). 2. Latin Prose Composition. 3. Sight Translation. 4. VIRGIL, Aeneid, Bks. VII, VIII, IX; HORACE, Epistles and Ars Poetica; TERENCE, Andria, including questions on the contents, style and literary history of the books. Students will read Sellar's Horace in "The Roman Poets of the Augustan Age."

**History.**

The chief movements in European History 300 A.D. to 1300, including (a) the continuous History of the British Empire, and (b) a special study of the thirteenth century.

Essays will be required during the year on topics connected with the course in History. Marks will be assigned on the basis both of matter and of form by the instructors in English and History and will be taken into account by the examiners in determining Honor standing.

†In the Greek and Latin subjects of this course the same examination papers will be set as in the corresponding subjects of the Classical Honor course, and the standard required will be the same.



## Third Year.

## English.

1900: SIXTEENTH AND SEVENTEENTH CENTURY LITERATURE.—An outline of the history of literature from Wyatt and Surrey to the beginning of the Civil Wars, with special study of the following works:—

SPENSER, *Faerie Queen*, Book I; SHAKESPEARE, *Romeo and Juliet*, *Twelfth Night*, *Othello*; BACON, *Advancement of Learning*, Book I; MILTON, *Areopagitica*, *Comus*, *Paradise Lost*, Books I, II, IV; together with the selections from Wyatt, Surrey, Sidney, Marlowe, Shakespeare, *Elizabethan Miscellanies*, Chapman, and Donne, in *Ward's English Poets*, Vol. I, and the extracts from Lyly to Milton (inclusive) contained in *Garnett's English Prose Selections*.

OLD ENGLISH: Sweet's *Anglo-Saxon Reader* (7th edition), Secs. III, V, XIV, XVI, XXIII.

1901: NINETEENTH CENTURY LITERATURE.—A general acquaintance with the work of the following writers, together with a special study of the specified selections:—

WORDSWORTH, *Michael*, *Tintern Abbey*; SCOTT, *Old Mortality*, *Lay of the Last Minstrel*; SHELLEY, *Adonais*; CARLYLE, *Essays on Burns*, *Johnson*, *Biography*, *Characteristics*; MACAULAY, *Essay on Boswell's Life of Johnson and Memorials of Hampden*; TENNYSON, "You ask me why," "Of old sat Freedom," "Love thou thy land," *The Lady of Shalott*, *The Lotos-Eaters*, *Ulysses*, *Morte d'Arthur*, *Northern Farmer*, *Old Style*, *The Revenge*, *The Ancient Sage*, *Freedom*, *To Virgil*, *The Two Greetings*; R. BROWNING, *Saul*, *Fra Lippo Lippi*, *The Bishop Orders his Tomb*, *My Last Duchess*, *Up at a Villa*, *Love among the Ruins*, *Two in the Campagna*, *Andrea del Sarto*, *Hervé Riel*, *A Death in the Desert*, *Pisgah Sights*; and the selections from WORDSWORTH, SCOTT, and SHELLEY in *Palgrave's Golden Treasury*.

COMPOSITION: The writing during the term of at least four original essays upon subjects connected with the work in literature. The marks assigned to these essays will be taken into account in determining Honor standing.

OLD ENGLISH: Sweet's *Anglo-Saxon Reader* (7th edition), Secs. II, IV, VI, VIII, XIII, XV, XXIV, XXVI; or *Bright's Anglo-Saxon Reader*, Secs. V, VI, VIII, XIV, XVI, XXIII, XXIV (ll. 1-84).

## \* Greek.

1900: ARISTOPHANES, *Wasps*; DEMOSTHENES, *De Pace*, *De Halonneso*, *De Chersoneso* (speeches V, VII and VIII in *Dindorf*); PLATO, *Republic*, Bks. I-IV and *Apology*.

1901: ARISTOPHANES, *Wasps*; DEMOSTHENES, *Fourth Philippic*, *Answer to Philip's Letter*, *Philip's Letter*, *De Syntaxi* (Speeches X, XI, XII, XIII, in *Dindorf*); PLATO, *Republic*, Bks. I-IV.

Translation at sight.

\* In the Greek and Latin subjects of this course the same examination papers will be set as in the corresponding subjects of the Classical Honor course, and the standard required will be the same.

**\* Latin.**

HORACE, Satires, and JUVENAL, Satires, I-XIII (except II, IV, VI, IX); PERSIUS, Satire I, with the history of Roman Satire; CICERO, De Finibus, Bks. I, II; TACITUS, Annals, Bks. I, II, III (with an introduction to the History of the Roman Principate).

Translation at sight.

NOTE.—The author papers will include questions on the contents, style, and literary history of the books. In connection with the Horace and Juvenal students will read Sellar's Roman Poets of the Republic, chap. VIII, Sellar's Horace, and Inge's Society in Rome under the Caesars.

**History.**

The chief movements in European History A.D. 1300-1763, including (a) the continuous History of the British Empire, (b) European effort in America, (c) a special study of the period of the Commonwealth and the Protectorate.

Essays will be required during the term on topics connected with the course in History. Marks will be assigned on the basis both of matter and of form by the instructors in English and History, and will be taken into account by the examiners in determining honor standing.

**Fourth Year.****English.**

1900: SIXTEENTH AND SEVENTEENTH CENTURY LITERATURE: An outline of the history of literature from Wyatt and Surrey to the beginning of the Civil War, with special study of the following works:—

SPENSER, Faerie Queen, Book I; SHAKESPEARE, Romeo and Juliet, Twelfth Night, Othello; BACON, Advancement of Learning, Book I; MILTON, Areopagitica, Comus, Paradise Lost, Books I, II, IV; together with the extracts from Wyatt, Surrey, Sidney, Marlowe, Shakespeare, Elizabethan Miscellanies, Chapman and Donne in Ward's English Poets, Vol. I, and the extracts from Lyly to Milton (inclusive) contained in Garnett's English Prose.

THE HISTORY OF THE ENGLISH DRAMA from its origin to the death of Shakespeare.

The following works are to be studied critically: SHAKESPEARE, Hamlet, The Tempest, Henry VIII.

\*In the Greek and Latin subjects of this course the same examination papers will be set as in the corresponding subjects of the Classical Honor course, and the standard required will be the same.

The following works are to be read carefully\* :—Pollard's *Miracle Plays*, the selections entitled *The Fall of Lucifer*, *Noah's Flood*, *The Sacrifice of Isaac*, *Secunda Pastorum*, *The Castle of Perseverance*, the *Pardoner and the Frere*; *Gorboduc*; MARLOWE, *Tamburlaine*, Pt. I, and *Edward II*; GREENE, *Friar Bacon and Friar Bungay*; SHAKESPEARE, *Love's Labor Lost*, *Midsummer Night's Dream*, *King John*, *Richard III*; JONSON, *Every Man in his Humor*; MILTON, *Samson Agonistes*.

NINETEENTH CENTURY LITERATURE : TENNYSON, *In Memoriam*.

OLD ENGLISH : CAEDMON, *Exodus and Daniel* (Ginn & Co.); *Historical Grammar*, and *Sweet's First Middle English Primer*.

1901 : THE HISTORY OF THE ENGLISH DRAMA from its origin to the death of Shakespeare.

The following works are to be studied critically : SHAKESPEARE : *Midsummer Night's Dream*, *Hamlet*, *Lear*, *Cymbeline*.

The following works are to be read carefully : *Creation and Fall II*, *Abraham and Isaac*, *The Second Shepherd's Play*, *The Four PP.*, *Campaspe*, *James IV.* (all these are contained in *Manley's Specimens of the Pre-Shakespearean Drama*); MARLOWE, *Tamburlaine*, Pt. I, *Edward II*; BEN JONSON, *Every Man in His Humour*; SHAKESPEARE, *Love's Labor Lost*, *Much Ado About Nothing*, *Antony and Cleopatra*; MILTON, *Comus*, *Samson Agonistes*.

OLD ENGLISH : *Beowulf*, ll. 1-1250, to be studied critically in the original; a general knowledge of the remainder of the poem will be expected, which may be gained from *Hall's*, *Earle's*, or *Garnett's translation*; *Historical Grammar*, and *Sweet's Second Middle English Primer*.

#### †Greek.

HOMER, *Iliad*, I, VI, XVIII, XXII-XXIV; THEOCRITUS, *Idylls*, I, IV, VII, VIII, XIII, XV, XXI.

ARISTOTLE, *Poetics*, with the history of the Greek genius and Greek poetry so far as covered by the following books :—*Butcher's Aspects of Greek Genius* (2nd edition), *Matthew Arnold's Essays on Translating Homer*, *Butcher's Essays* in his edition of the *Poetics*, *Jebb's Growth and Influence of Classical Greek Poetry*, *Moulton's Ancient Classical Drama*.

#### †Latin.

VIRGIL, *Bucolics and Georgics*, with *Sellar's Essay on Virgil*; QUINTILIAN, *Bk. X.* Questions will be set on the history of Roman Poetry to A. D. 120, with special reference to the influence of Roman upon English Literature, so far

\* In the case of these works, the examination shall be confined to broad literary characteristics, and shall not bear on minute points in regard to text, allusion, or interpretation.

† In the Greek and Latin subjects of this course the same examination papers will be set as in the corresponding subjects of the Classical Honor course, and the standard required will be the same.

as covered by Sellar's *Virgil*, Myers' *Essay on Virgil*, Sainte-Beuves' *Etude sur Virgile*, Tyrrell's *Roman Poetry*, and Mackail's *Handbook to Roman Literature*.

**History.**

The chief movements in European and American History from A. D. 1763 to the present time, including (a) the continuous History of the British Empire and the United States, (b) a special study of the French Revolutionary period, (c) the Philosophy of History.

An essay will be required during the year on some subject connected with the course in History. Marks will be assigned on the basis both of matter and of form by the instructors in English and History, and will be taken into account by the examiners in determining honor standing.

NOTE.—The Education Department of Ontario accepts an Honor degree of the University of Toronto, obtained in the above course, as the non-professional qualification for specialist standing in the Department of English and History.

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DEPARTMENT OF ORIENTAL LANGUAGES.

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*Additional Requirements*.—Candidates in this Department are required to take the following subjects of the General course, in addition to the work prescribed below:—

- FIRST YEAR . . . . English ; Latin ; any two of the languages : Greek, French, German, Hebrew ; Ancient History ; Mathematics ; Physics or Biology.  
 SECOND YEAR . . . . English or History ; any two of the languages : Latin, Greek, French, German ; Psychology, and Logic.  
 THIRD YEAR . . . . Latin or Greek or French or German ; Ethics.  
 FOURTH YEAR . . . . Latin or Greek or French or German.

*Term work in Honors*.—Every candidate for Honors in this Department shall, during the Fourth year of his course, present a dissertation on some subject connected with Oriental Languages or Literature, such subject to be previously approved by his instructors in the Department. The essay shall, on or before the 1st of April in each year, be laid before the instructors in Oriental Languages in University College and Victoria University, who shall examine it and assign to it marks according to their judgment of its merit. Such marks shall be reported to the Registrar and be taken into account by the examiners in determining the standing of the candidate at the examination of the Fourth year.



**Second Year.**

HEBREW: Historical and narrative Prose—Exodus I-XIX; Numbers XXI-XXIV; Deuteronomy I-XIII; Judges XIV-XVI; Ruth; 1 Samuel XVII-XIX; 2 Samuel XVII, XVIII; 1 Kings, V, VIII, XVII-XIX; 2 Kings XVI-XIX; 2 Chronicles XXX. Hebrew syntax and Hebrew prose composition. Translation at sight of prose passages. Outlines of Hebrew literature.

ARAMAIC: West Aramaic grammar, with extracts from Targums. Syriac grammar with reading lessons; outlines of Aramaic literature.

General Semitic history, geography and antiquities.

**Third Year.**

HEBREW: Amos I-VI; Micah V-VII; Isaiah I-XIV, XXV, XXVIII, XXXII, XXXV, XL-LV; Jeremiah IV-VIII, XIV-XVII, XXII, XXIII; Ezekiel XII-XIV, XXVI, XXVII, XXXIII, XXXIV; Haggai. Translation at sight. Syntax and composition. Introduction to the literary study of the prophetic writings. History of Israel to fall of Samaria.

BIBLICAL ARAMAIC: Outlines of the grammar with selections from Daniel and Ezra.

ARABIC: Introduction to Arabian history and literature. Arabic grammar. Reading of prescribed specimens of the literature.

**Fourth Year.**

HEBREW: Psalms I-XXXIV, XXXIX-LV, LXXII-LXXXVII, LXXXIV, LXXXVII, XC-C, CII-CIV, CX, CXXI-CXXVII, CXXX, CXXXVII, CXXXIX, CXLV-CL; Proverbs I-V, VIII, XII, XV, XXV, XXX, XXXI; Job III-XIV, XIX, XXVIII; Ecclesiastes XII; Lamentations I. Composition and translation at sight. Characteristics of Hebrew poetry in detail and of the several poetical books. History of Israel to Maccabean period.

ASSYRIAN: Grammar and reading of selected texts. Babylonian and Assyrian history. Introduction to the literature, with the history of modern discoveries and their relations with the Old Testament.

Comparative grammar of the Semitic languages.

DEPARTMENT OF HISTORY.

*Additional Requirements.*—Candidates in this Department are required to take the following subjects of the General course in addition to the work prescribed below :

FIRST YEAR. . . . English ; any two of the following languages, viz., Greek, French, German, Hebrew ; Mathematics ; Biology or Physics.

SECOND YEAR. . . . English ; any two of the following languages, viz., Greek, French, German, Hebrew ; Psychology.

THIRD YEAR. . . . English, Ethics.

FOURTH YEAR. . . . English.

**First Year.**

1. The Honor Latin of the First year or the Honor Greek of the First year. For details see Department of Classics, p. — (Candidates taking the Greek option must take the Latin of the General Course and French or German or Hebrew).

2. ANCIENT HISTORY : (a) Roman History (Pelham's Outlines of Roman History) ; (b) Greek History (Botsford's History of Greece).

**Second Year.**

1. †LATIN : Composition ; sight translation ; grammar (including prosody) ; Livy, III, IV, V, VI ; or GREEK : Sight translation, grammar (including prosody) ; Thucydides, Bk. I. (Candidates taking the Greek option must take the Latin of the General Course, and French or German or Hebrew.

2. †ANCIENT HISTORY : (a) Roman History to 266 B.C. (Mommsen, Bks. I and II, Fustel de Coulanges' La Cité Antique) ; (b) Greek History to 421 B.C., (Botsford's History of Greece ; Grote's History of Greece, Part II, chaps. VI, XI, XXX, XXXI, XLV, XLVI).

3. MEDIEVAL HISTORY : The chief movements in European History, 300 A.D. to 1300, including (a) the continuous History of the British Isles, (b) a special study of the thirteenth century.

4. The Constitutional History of England to Magna Charta, including the study of the text of the principal constitutional documents.

5. The Elements of Economics.

† In the Greek and Latin subjects of this course the same examination papers will be set as in the corresponding subjects of the Classical Honor course, and the standard required will be the same

**Third Year.**

1. \*ANCIENT HISTORY : (a) Roman History from 266 B.C. to 78 B.C., (Mommsen, Bks. III and IV); Tacitus, Annals, Bks. I, II, III, or Thucydides, Book III. (b) Greek History from 421 B.C. to 362 B.C. (Botsford's History of Greece, Grote's History of Greece, chaps. LXVII and LXVIII).

2. MODERN HISTORY : The chief movements in European History from 1300 A.D. to 1763, including (a) the continuous history of the British Empire, (b) European effort in America, (c) a special study of the period of the Commonwealth and the Protectorate. An essay will be required on some topic connected with the course in History, and the merits of this essay will be taken into account by the examiners in determining honor standing.

3. English Constitutional History from Magna Charta, including the study of the text of the principal documents.

4. History of Economic Theory.

5. English Constitutional Law.

6. Colonial Constitutional Law.

**Fourth Year.**

1. \*ANCIENT HISTORY : (a) Roman History from 78 B.C. to 37 A.D., (Mommsen, Bk. V; Merivale, Vols. III, IV, and V); †Cicero's Letters (Watson's selection), or Herodotus, VII, VIII, IX, (b) Greek History, †Thucydides I, II, III, VI, VII, VIII; †Herodotus VII, VIII, IX; Grote's History of Greece, Part I, chaps. XV, XVI, XVII, XX, XXI.

2. MODERN HISTORY : The chief movements in European and American History from 1763 to the present time, including (a) the continuous History of England, the United States and Canada, (b) a special study of the French Revolutionary period, (c) the Philosophy of History. An essay will be required on some topic connected with the course in History, and the merits of this essay will be taken into account by the examiners in determining honor standing.

3. Political Philosophy; Economic History; Public Finance.

4. Federal Constitutional Law.

5. Ethnology.

\* In the Greek and Latin subjects of this course the same examination papers will be set as in the corresponding subjects of the Classical Honor course, and the standard required will be the same.

† Either Herodotus or Cicero's Letters must be read in the original: the other (with Thucydides) may be read in a translation.

DEPARTMENT OF POLITICAL SCIENCE.

*Additional Requirements*:—Candidates in this Department are required to take the following subjects of the General Course, in addition to the work prescribed below :

**FIRST YEAR**....English ; Latin ; any two of the following languages, viz., Greek, French, German, Hebrew ; Mathematics (including Permutations and Combinations, so far as necessary for the Binomial Theorem ; and the Binomial Theorem) ; Biology or Physics (Biology recommended) ; Ancient History.

**SECOND YEAR**....English ; Latin ; any two of the following languages, viz., Greek, French, German, Hebrew ; Logic and Psychology.

**THIRD YEAR**....English, Ethics.

*Term Work in Honors*.—The following term work, to be prescribed by the Professor of Political Economy and Constitutional History, is required in these subjects :

**SECOND YEAR** : Two essays in each term, in all four essays, and also a Term examination to be held before or shortly after Christmas vacation.

**THIRD YEAR** : Two essays in each term, in all four essays, and also a Term examination to be held before or shortly after Christmas vacation.

**FOURTH YEAR** : Two essays in each term, in all four essays, and also a Term examination to be held before or shortly after Christmas vacation.

In each year such term work and examination count for Honors in the annual examination.

**First Year.**

Candidates for Honors in the Department of Political Science are required to take, in addition to the above subjects of the General course, the full Honor course in one or other of the following Honor subjects in the First year : Latin ; Greek ; any two of the three languages ; English, French, German.

*NOTE*.—Students are recommended to take the Honor Latin in the First year instead of the Latin of the General course, in order that they may have the option of entering the History course in the Second year should they so desire.

**Second Year.**

1. The Elements of Economics.
2. Roman History to 266 B.C., Mommsen, Bks. I and II and Fustel de Coulanges' *La Cité Antique*.
3. Medieval History to 1300.
4. English Constitutional History to Magna Charta, including the study of the text of the principal constitutional documents.
5. Mathematics (Elements of the Infinitesimal Calculus, with Elements of Analytical Geometry).



**Third Year.**

1. The Theory of Political Economy.
2. Modern History from 1300 to 1763.
3. English Constitutional History from Magna Charta, including the study of the text of the principal constitutional documents.
4. English Constitutional Law.
5. Roman Law.
6. History of English Law.
7. Colonial Constitutional Law.

**Fourth Year.**

1. Economic History ; Public Finance ; Political Philosophy.
2. Modern History from 1763 to the present time (See Department of History for details).
3. History of Philosophy (Honor History of Philosophy of the Fourth year).
4. Jurisprudence.
5. Public International Law.
6. Federal Constitutional Law.
7. Canadian Constitutional History, including the study of the text of the principal constitutional documents.

Candidates may take either number 3 or numbers 4 and 5.

**DEPARTMENT OF PHILOSOPHY.**

*Additional Requirements* :—Candidates in this Department are required to take the following subjects of the General course in addition to the work prescribed below :

- FIRST YEAR.....English ; Latin ; any two of the following languages, viz., Greek, French, German, Hebrew (Greek and German recommended) Ancient History ; Mathematics ; Physics or Biology (Biology recommended).
- SECOND YEAR.....Geometrical Optics ; any two of the following languages, viz., Greek, German, Latin, French, Hebrew (Greek and German recommended).
- THIRD YEAR.....English or History ; Honor Economics (Pass standing).

**Second Year.**

LOGIC : Formal and Inductive ; Scientific Methods.

PSYCHOLOGY : (a) Sensation, Thought, Emotion, Volition ; (b) Experimental, Introductory Course, Psychophysical methods, the senses of taste and smell, and the dermal and kinæsthetic Senses.

METAPHYSICS : Locke, Essay on the Human Understanding ; Berkeley, Principles of Knowledge ; Hume, Treatise on Human Nature, Book I.

**Third Year.**

LOGIC : Scientific Methods ; J. S. Mill.

ETHICS : Theory of Ethics ; History of Ethics ; Essays on Ethical Topics.

HISTORY OF PHILOSOPHY : Ancient and Mediæval ; Cicero, De Finibus, Books I and II.

PSYCHOLOGY : (a) Experimental study of psychological optics and acoustics and the time and space relations of mental phenomena ; (b) the more important problems of General Psychology, with selected readings from Bain, Baldwin, James, Ladd, Sully, Tracy, Ward, Wundt.

**Fourth Year.**

HISTORY OF PHILOSOPHY : Modern ; Special study of Kant's Critiques.

ETHICS : Aristotle, Nicomachean Ethics ; Kant's Ethical Writings ; 1899-1900 Sidgwick's Methods of Ethics ; 1900-01 Leslie Stephens' The Science of Ethics ; Essays.

PSYCHOLOGY : Practical work in the Laboratory.

METAPHYSICS :—

(a) Kant's Prolegomena (paragraphs 1-50). Aristotle's Metaphysics.

(b) (1899-1900). Descartes Meditations and Method ; Spinoza, Ethic ; Leibnitz, Nouveaux Essais ; Lotze, Metaphysics ; Wundt, System of Philosophy.

(c) (1900-01). Hamilton's Notes on Reid ; Mansel ; Comte, Positive Philosophy ; J. S. Mill, Examination of Sir William Hamilton ; Spencer's First Principles.

Essays on Metaphysical Topics.

Review of the work of previous years, and Essays.

NOTE.—Candidates from St. Michael's College may substitute Lorimer's Institutes of Law for Kant's Ethics, in Fourth year ; and also Aristotle's Ethics, Bks. I-IV in the original, and one of Plato's Dialogues in the original, for the Experimental Psychology in the Fourth year.

## DEPARTMENTS OF MATHEMATICS AND PHYSICS.

*Additional Requirements:*—Candidates in this Department are required to take the following subjects of the General Course in addition to the work prescribed below:

FIRST YEAR. . . . . English; Latin or Greek; French or German.

**First Year.**

Elementary Physics (Mechanics, Hydrostatics and Heat); Elementary Chemistry; Algebra, including Determinants and omitting Theory of Probability; Trigonometry (Plane and Spherical); Analytical Plane Geometry.

**Second Year.**

Elementary Physics (Electricity and Magnetism, and Geometrical Optics); Physical Chemistry with Laboratory work; Newton's Principia, sec. I; Differential Calculus; Integral Calculus; Solid Geometry; Elementary Analytical Statics and Particle Dynamics.

**Third Year.**

Elementary Physics (Acoustics and Physical Optics); Advanced Analytical Statics; Advanced Particle Dynamics; Hydrostatics; Geometrical Optics; Rigid Dynamics; Thermodynamics (elementary); Theory of Equations with Determinants continued from the First year; Laboratory Work.

**Fourth Year.**

Candidates are allowed to take either Division I or Division II in the Fourth year.

## DIVISION I.—MATHEMATICS.

Astronomy; Differential Equations; Higher Plane Curves with introductory course in Modern Geometry; Quaternions with outlines of similar space analyses; also any two of the following courses, the selection to be made by the Mathematical Department at the beginning of each year:—

1. Invariant Theory. 2. Theory of Numbers. 3. Theory of Substitutions.
4. Elementary Theory of Functions. 5. Elliptic Functions. 6. Tangential Co-ordinates and Trilinear Co-ordinates—outlines of one of these, with fuller treatment of the other. 7. Projective Geometry with Modern Synthetic Geometry—outlines of one of these, with fuller treatment of the other.
8. Theory of Probability.

DIVISION II.—PHYSICS.

Elasticity; Acoustics; Physical Optics; Thermodynamics (advanced); Electricity and Magnetism; Method of Least Squares; Laboratory Work.

NOTE.—The Education Department of Ontario accepts an Honor degree of the University of Toronto, obtained in the above course, as the non-professional qualification for specialist standing in the Department of Mathematics.

DEPARTMENT OF NATURAL SCIENCE.

*Additional Requirements*.—Candidates in this Department are required to take the following subjects of the General course in addition to the Honor work prescribed below :

FIRST YEAR. . . . Latin or Greek; English; Mathematics; French or German.

SECOND YEAR. . . . English.

THIRD YEAR. . . . English.

FOURTH YEAR. . . . English.

**First Year.**

Elementary Biology with Laboratory work, including the study of typical animals and flowering plants.

Elementary Physics (Mechanics, Hydrostatics, and Heat), including Laboratory work.

Elementary Chemistry.

**Second Year.**

Zoology of the Invertebrata, with a practical knowledge of typical forms; Structure of the Vegetative and Floral Organs of Phanerogamous Plants, the course to include Laboratory work; Elementary Physiology; Chemistry with practical work; Elementary Mineralogy, Lithology and Dynamical Geology, with practical work; Physics (Acoustics, Geometrical Optics, Electricity and Magnetism) with Laboratory work.

**Third Year.**

The candidate may select either of the two following divisions for examination :—

DIVISION I.—BIOLOGY.

Zoology of the Vertebrata, with Laboratory and Museum work illustrative of this course; Vegetable Physiology; Structure and classification of Cryptogamic Plants, with practical knowledge of types; Organic Chemistry, with Laboratory work; Historical and Stratigraphical Geology and Palaeontology, with excursions and Laboratory work.



**DIVISION II.—GEOLOGY.**

Zoology of the Vertebrata, with Laboratory and Museum work illustrative of this course; Palæontology of the Invertebrata and Palæophytology, with practical work; Historical and Stratigraphical Geology; Economic Geology; Mineralogy, Elementary Crystallography and Determination of Minerals, with Laboratory practice; Lectures and Laboratory work in Mineral Chemistry.

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**Fourth Year.**

The candidate may select either of the two following divisions for examination:—

**DIVISION I.—BIOLOGY.**

Morphology and Embryology of Vertebrates, with special dissection of a typical Vertebrate Form; Histology; Bacteriology; General Biology; Physiology; Physiological Chemistry; Physiological Psychology.

**DIVISION II.—GEOLOGY.**

Archæan Geology; Glacial Geology; Structural Geology; Field work in Geology; Physiography; Meteorology; Petrology (Megascopic and Microscopic); Palæontology of the Vertebrata; Crystallography (Theoretical and Practical); Mineral Chemistry and Assaying.

Students in the department are required to submit a Mineralogical, Petrographical or Palæontological collection made during the previous holidays.

**NOTE.**—The Education Department of Ontario accepts an Honor degree of the University of Toronto, obtained in the above course, as the non-professional qualification for specialist standing in the Department of Science.

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## DEPARTMENT OF CHEMISTRY AND MINERALOGY.

*Additional Requirements*:—Candidates in this Department are required to take the following subjects of the General course in addition to the Honor work prescribed below :

FIRST YEAR. . . . . English; Latin; German or French; Algebra; Trigonometry.

**First Year.**

**CHEMISTRY** : Elementary Chemistry ; Physical Chemistry ; Laboratory work.

**PHYSICS** : Elementary Physic (Mechanics, Hydrostatics and Heat).

**MATHEMATICS** : Elementary Analytical Geometry.

**Second Year.**

**CHEMISTRY** : Inorganic Chemistry ; Physical Chemistry ; Elementary Organic Chemistry ; Laboratory work.

**MINERALOGY** : Theoretical and Practical.

**PHYSICS** : Electricity and Magnetism ; Geometrical Optics ; Acoustics ; Laboratory work.

**MATHEMATICS** : Elementary Differential and Integral Calculus.

**Third Year.**

**CHEMISTRY** : Advanced Organic Chemistry ; Physical and Inorganic Chemistry ; Laboratory work.

**MINERALOGY** : Spectrum Analysis ; Determinative Mineralogy ; Crystallography.

**PHYSICS** : Practical Electricity.

**Fourth Year.**

**CHEMISTRY** : History of Chemical Theory ; Organic and Inorganic Chemistry, including the study of selected Monographs ; Theory of Chemical Equilibrium ; Electro-Chemistry.

**MINERALOGY** : Systematic Mineralogy ; Physical and Mathematical Crystallography ; Assaying (practical).

In the case of students who desire to obtain a "Specialists' Certificate in Science," the Biology of the First year of the Department of Natural Science must be substituted for the Mineralogy of the Third year; and the Biology of the Second year for the Mineralogy of the Fourth year.

NOTE.—The Education Department of Ontario accepts an Honor degree of the University of Toronto, obtained in the above course, as the non-professional qualification for specialist standing in the Department of Science.

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### DEPARTMENT OF PHYSICS AND CHEMISTRY.

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*Additional Requirements*:—Candidates in this Department are required to take the following subjects of the General course in addition to the work prescribed below:

FIRST YEAR . . . English; Latin or Greek; French or German; Trigonometry.

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#### First Year.

PHYSICS: Elementary Physics (Mechanics, Hydrostatics, and Heat); Laboratory work.

CHEMISTRY: Elementary Chemistry; Physical Chemistry; Laboratory work.

MATHEMATICS: Analytical Geometry; Algebra.

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#### Second Year.

PHYSICS: Electricity and Magnetism, Geometrical Optics; Analytical Statics; Dynamics of a Particle; Laboratory work.

CHEMISTRY: Inorganic Chemistry; Physical Chemistry; Laboratory work.

MATHEMATICS: Differential and Integral Calculus; Solid Geometry.

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#### Third Year.

PHYSICS: Thermodynamics; Physical Optics; Acoustics; Laboratory work, including Practical Electricity.

CHEMISTRY: Organic Chemistry; Theory of Chemical Affinity; Laboratory work.

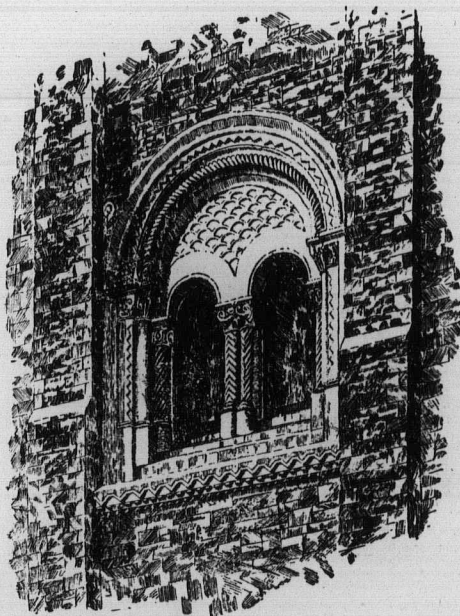
MATHEMATICS: Differential Equations.

**Fourth Year.**

**PHYSICS:** Electricity and Magnetism; Thermodynamics (advanced); Laboratory work.

**CHEMISTRY:** Chemical Thermodynamics; Electro-Chemistry; History of Chemical Theory; Laboratory work.

**NOTE.**—The Education Department of Ontario accepts an Honor degree of the University of Toronto, obtained in the above course as the non-professional qualification for a specialist's certificate in Science, provided the candidate has also obtained Honor standing in each of the First and Second year examinations in Biology of the Department of Natural Science. The Education Department of Ontario accepts an Honor degree of the University of Toronto, obtained in the above course as the non-professional qualification for a specialist's certificate in Mathematics, provided the candidate has also obtained Honor standing in the following additional subjects of the Department of Mathematics and Physics, taken at not more than two examinations: Trigonometry (plane and spherical); Newton's Principia, Sec. I; Statics and Dynamics (advanced); Rigid Dynamics; Hydrostatics (advanced); Geometrical Optics (advanced); Elasticity; Hydrodynamics; Method of Least Squares.





## Courses of Instruction in Arts.

The undergraduate courses of instruction in the University of Toronto and University College are based upon the Curriculum, as above (pp. 78-115). The following statements regarding the scope and aim of the courses are added in cases in which such additional information is considered desirable, together with the names of the teaching staff for 1898-99 :—

## Greek.

MAURICE HUTTON, M.A. .... *Professor of Greek.*  
A. CARRUTHERS, M.A. .... *Lecturer on Greek.*

*(The division of the examination papers given below in Greek and Latin has been recommended to the Senate by the Professors for insertion in the instructions to examiners.)*

The examination papers in the First year will be distributed as follows:  
1. Greek Grammar (half paper). 2. Greek Sight Translation (half paper).  
3. Greek Prose. 4. Greek History (half paper). 5. Homer (pass), and Lysias (or Lucian). 6. Herodotus and Homer (honor).

The examination papers in the Second year will be distributed as follows:  
1. Greek Grammar (half paper). 2. Greek Sight Translation (half paper).  
3. Greek Prose. 4. Greek History (half paper). 5. Euripides and Plato.  
6. Sophocles, Aristophanes, and Thucydides.

The examination papers in the Third year will be distributed as follows:  
1. Greek Grammar and Philology. 2. Greek Sight Translation (half paper).  
3. Greek Prose. 4. Greek History and general questions on Greek Philosophy up to Socrates (inclusive) (half paper). 5. Plato (with questions on Platonic Philosophy). 6. Aristotle (with questions on Aristotelian Philosophy). 7. Thucydides, Pindar, and Sophocles. 8. Aristophanes and Demosthenes.

The examination papers in the Fourth year will be distributed as follows:  
1. Greek Sight Translation. 2. Greek Prose. 3. Plato and Aristotle's Ethics.  
4. Thucydides (two-thirds of the paper) and Herodotus. 5. Æschylus, Homer, and Theocritus. 6. Aristotle, Poetics, with the other books prescribed therewith (translation and questions) (half paper). 7. Aristotle, Politics, I, III, with the books prescribed therewith (*vide* paragraph (8) in the Greek course p. ) or Descriptive and Comparative Syntax (*vide* paragraph (9) in the Latin course p. ). 8. Greek History and general outlines of Greek Philosophy up to Aristotle (inclusive), (Weber), and Aristotle's Politics, Bk. II.

**Latin.**

- J. FLETCHER, M.A., LL.D. . . . . *Professor of Latin.*  
 W. S. MILNER, M.A. . . . . *Lecturer on Latin.*  
 G. W. JOHNSTON, B.A., PH.D. . . . . *Lecturer on Latin.*

The examination papers for honors in this Department will be distributed as follows :

FIRST YEAR.—1. Latin Grammar (half paper). 2. Latin Prose. 3. Latin Sight (half paper). 4. Roman History (half paper). 5. Virgil and Cicero (*Philippic II*). 6. Horace and Cicero (*Pro Cluentio* and *Pro Murena*).

SECOND YEAR.—1. Latin Grammar (half paper). 2. Latin Prose. 3. Latin Sight (half paper). 4. Roman History (half paper). 5. Livy. 6. Virgil, Horace, and Terence.

THIRD YEAR.—1. Grammar and Philology. 2. Latin Prose. 3. Latin Sight (half paper). 4. Roman History (half paper). 5. Roman Satire. 6. Virgil and Plautus. 7. Tacitus and Cicero (with the outlines of the Stoic and Epicurean Philosophy).

FOURTH YEAR.—1. Latin Prose. 2. Latin Sight. 3. Roman History. 4. Sallust, Cicero, Tacitus, etc. 5. Lucretius and Virgil. 6. Quintilian (with the History of Roman Poetry) (half paper). 7. Cicero, *De Finibus* and *Academica* (with the History of Post-Aristotelian Philosophy). 8. Comparative Syntax (for those who do not take Aristotle's Politics, Bks. I and III).

**English.**

- W. J. ALEXANDER, B.A., PH.D. . . . . *Professor.*  
 D. R. KEYS, M.A. . . . . *Lecturer.*

*A. General Course.—*

FIRST AND SECOND YEARS.—An attempt is made to develop the understanding and appreciation of literature through the study of two plays of Shakespeare in the First year, and of selected poems of Wordsworth and Coleridge in the Second year. Students are expected, in the case of Shakespeare, to master for themselves the explanatory notes of some good edition such as the Clarendon Press or Rolfe's.

Composition is taught in connection with the study of prose literature. The methods of the various forms of composition are investigated in selections from good writers. An original essay on a subject set by the instructor is required of each student on or before each of the following dates: October 31st, December 15th, February 1st, and March 15th. If any articles or books are read in preparation for such essays, the titles of these and the parts specially made use of must be definitely specified in each essay. The marks assigned for these four essays count as term work at the final examination (80 marks out of 200).

THIRD AND FOURTH YEARS.—In these years the literature of a period is studied, and an attempt is made to enable the student not only to appreciate

and understand the individual works selected, but also to grasp their relation to one another, and the way in which they give expression to the personality of the writer and the tendencies of the time.

*B. Honor Course :—*

The work prescribed in the General course is also incumbent upon Honor students, but a fuller and more advanced knowledge is expected than in the case of General students. The marks assigned for compositions during the term will count as one paper at the annual examinations.

The special Honor work is intended to broaden the knowledge and deepen the insight which the student may acquire in the General work. In the Third year, besides additional work in the period prescribed in the General course, the study of Old English is begun. In the Fourth year this last-mentioned work is continued, and a course on Historical Grammar is given. In literature, the student is expected to make a minute study of certain typical works, and to extend his acquaintance with the period by a careful reading of other prescribed books. The class work is devoted partly to a special examination of the prescribed selections, partly to an exemplification by lectures of the general characteristics of the various writers and periods.

*Books recommended:* Good one volume editions of the poetical works of Milton (90 cents), Wordsworth (\$1.75), Coleridge (\$1.75), Shelley (\$1.75), Tennyson (\$1.75), Spenser (90 cents), and Shakespeare (\$1.75), in Macmillan's Globe edition. Annotated editions of Shakespeare's plays, by Rolfe (58 cents each), or in the Clarendon Press (40 cents each); of Caedmon's Exodus and Daniel (Ginn & Co., 65 cents); of Milton's Paradise Lost, in the Clarendon Press, or in Pitt Press (60 cents); of Selections (containing all the texts prescribed) from Wordsworth ed. by Dowden (\$1.25), in Ginn's Athenæum Press Series; Selections from Coleridge ed. by Edgar (Appletons' Twentieth Century Series); of Burke's Conciliation with America (Macmillan, 70 cents), of Bacon's Advancement of Learning, Bk. I (Macmillan, 40 cents), of Spenser's Faerie Queen, Bk. I (Clarendon Press, 60 cents; Macmillan, 50 cents); Greene's Friar Bacon and Friar Bungay (Clarendon Press, \$1.60). Cheap texts of Marlowe's Edward II (Dent, 35 cents), Jonson's Every Man in His Humor (Dent, 35 cents), Marlowe's Tamburlaine (Henninger, Heilbronn, 65 cents), Sidney's Apologie for Poetry, Milton's Areopagitica, and Bacon's Advancement (Cassel's National Library, 15 cents), Gummere's Poetics (\$1.00), Garnett's English Prose (\$1.50), Bright's Anglo-Saxon Reader (\$2.50), Sweet's First and Second Middle English Primers (each 60 cents), Ward's English Poets, Vol. I, Gennung's Rhetoric (\$1.25), Dowden's Shakespeare Primer (30 cents), Emerson's History of the English Language (\$1.50), Bain's Rhetoric (\$1.25), Saintsbury's Elizabethan Literature (\$1.50).

**French.**

J. SQUAIR, B.A. ....	<i>Associate-Professor.</i>
J. H. CAMERON, M.A. ....	<i>Lecturer.</i>
ST. ELME DE CHAMP .....	<i>Special Instructor.</i>

*A. General Course:—*

In all the years special stress will be laid on grammar, pronunciation and translation into French, commencing in the First year with simple exercises in each of these subjects, and continuing with those of a more difficult character to the end of the Fourth year. In the First and Second years, particular attention will also be paid to careful translation from French into English; a short text in modern French will be read in class in each of these years. In the Third year the prose texts, and in the Fourth year the poetical and dramatic texts, belonging to various periods, which have been prescribed by the University, will be read and will be illustrated by such critical and historical lectures as may be necessary for their proper understanding and appreciation.

*B. Honor Course:—*

As in the General course, special stress will be laid, in all the years, on grammar, pronunciation and translation into French. In addition to these subjects there will, in the Honor course, be regular and continuous exercises in conversation and composition in French during the Second, Third and Fourth years. The study of literature will begin in the Second year, the period for this year being the Seventeenth century; the Eighteenth century will be studied in the Third year, and the Nineteenth century in the Fourth year. In each year appropriate critical and historical lectures will be given for the purpose of aiding students to thoroughly understand and appreciate the works, belonging to each period, which are prescribed by the University. During the Third and Fourth years, students will be expected to read systematically some good grammar of the French language. In these two years, also, lectures will be given on the History of the French language, the lectures to be illustrated in the Third year by a selection from the Chanson de Roland. Students of the Fourth year will be encouraged to undertake the independent study of topics in connection with the history of the language and literature.

**German.**

W. H. VANDERSMISSEN, M.A. ....	<i>Associate-Professor.</i>
G. H. NEEDLER, B.A., PH.D. ....	<i>Lecturer.</i>
P. TOEWS, M.A., PH.D. ....	<i>Instructor.</i>

The courses in this subject comprise (1) the study of the literary language of classical authors of the 18th and 19th centuries; (2) practice in writing and speaking German as illustrative of and a means to the above-mentioned end; (3) the history of German literature; and (4) for the Honor courses the elements of the history of the language.

*A. General Course:—*

Practice in dictation, translation into German, and exercises in translation at sight, will be regularly given.



Students of the Third and Fourth years will read carefully the texts prescribed, and will have more advanced work in grammar, composition and sight translation. An outline of the literature prescribed will be given in lectures.

*B. Honor Course:—*

(a) Exercises in grammar and sight translation will be regularly given, as well as exercises in translation into German.

(b) Similar exercises of rather more advanced character will be given in the Second year. Students will also read carefully the texts prescribed.

In both the First and Second years an outline of literature as prescribed will be given in lectures.

(c) Honor students of the Third and Fourth years are expected to be familiar with the works of the modern authors prescribed, and lectures on the literature of the respective periods will be given, with illustrative references to the authors read.

In both Third and Fourth years exercises in sight translation, dictation, grammar and translation into German will receive much attention. Original essays in German will be required from time to time. Practice will also be given in conversation.

(d) In the Fourth year an outline of the history of the language will be given, according to a syllabus to be agreed upon by the instructors. The elements of Middle High German grammar and literature will be studied with special reference to the works prescribed.

### Italian and Spanish.

W. H. FRASER, B.A. .... Associate-Professor.

E. J. SACCO ..... Special Instructor in Italian.

P. TOEWS, M.A., Ph.D. .... Special Instructor in Spanish.

The courses in these subjects extend over four years, and are arranged with the object of giving the student, (1) a knowledge of the language of the present time; (2) an appreciation of some of the more important masterpieces of the literature; (3) a knowledge of the historical development of the literature; and (4) an elementary acquaintance with the historical phonology.

**FIRST YEAR ITALIAN.**—Simple narratives are used as a basis for instruction in grammar, and for the acquisition of vocabulary and idiom. The understanding of Italian when read or spoken, and the expression of thought directly in Italian are regarded as fundamental, and hence oral practice forms a large part of the work throughout the year. Phonetic transcription is employed as a means of giving definiteness to the knowledge of pronunciation and orthography. Bacci e Gotti, *Le Glorie della Patria*, per la terza classe, and Baccini, *Cristoforo Colombo* are used for reading; and Grandgent's *Italian Grammar* (Heath & Co.) is used as a book of reference.

**FIRST YEAR SPANISH.**—The course in Spanish is parallel in scope, object and method with that in Italian. H. Butler Clarke's *First Spanish Reader* and

Writer (London, Swan, Sonnenschein & Co.) is used as a basis for practice in the language, and for instruction in grammar, vocabulary and idiom. Edgren's Spanish Grammar (Heath & Co.) is used as a book of reference.

SECOND YEAR ITALIAN.—Bowen's Italian Reader is used as a basis for oral practice in the comprehension of Italian and for exercise in the reproduction of the substance of the text in Italian form. Constant practice is given in phonetic transcription and dictation, and in the understanding of unseen passages when read. Composition in Italian on familiar topics is required. Grandgent's Italian Composition (Heath & Co.) is used for additional work in composition and for more systematic instruction in the rules of construction. In the work of the Second year the use of a dictionary entirely in Italian is recommended. Petrocchi's *Novo Dizionario Scolastico* (Milano, Fratelli Treves, price 7 francs) is the most suitable for this purpose.

SECOND YEAR SPANISH.—The course in Spanish is parallel in scope, object and method with that in Italian of the Second year. Ramsey's Spanish Reader (Holt & Co.) is used for oral practice, as in Italian above. Exercises in phonetic transcription, dictation, composition and sight translation similar to those in Italian are required. The use of a dictionary entirely in Spanish is recommended. The *Diccionario Castellano, Campano Ilustrado* (Garnier, Paris, price 7 francs) is the most suitable for this purpose.

THIRD YEAR ITALIAN.—Attention is given principally to the systematic study of the history of literature from the origins up to the end of the fifteenth century and to the comprehension and interpretation of illustrative specimens of literature. Lectures on the subject are given, and ten cantos of Dante's *Divina Commedia* are read, together with copious extracts from Petrarca and Boccaccio, and shorter extracts from a number of writers of subordinate importance. Students are required to provide themselves with Dante's *Divina Commedia* (ed. Fraticelli, Firenze, Barbèra, recommended), and with Vol. I. of Torraca's *Manuale della Letteratura Italiana* (3rd ed., Firenze, Sansoni, 1894). In the work of the Third year the use of a dictionary entirely in Italian is recommended. Petrocchi's *Novo Dizionario Scolastico* (Milano, Fratelli Treves, price 7 francs) is the most suitable for this purpose.

THIRD YEAR SPANISH.—The course in Spanish is parallel in scope, object and method with that in Italian of the Third year. The period of literary history covered is that extending from the origins to about the death of Cervantes (exclusive of the drama). Ten chapters of Cervantes' *Don Quijote* and illustrative extracts from a number of writers of subordinate importance are read. Students are required to furnish themselves with a copy of *Don Quijote* (Kressner's edition, Vol. I, Renger, Leipzig, recommended), with the *Curso de Literatura de García Al-Deguér y Giner de los Ríos* (Madrid, Administracion de la Biblioteca andaluza, 1889), and with Keller's *Altspanisches Lesebuch* (Leipzig, Brockhaus). For the work of the Third year the use of a dictionary entirely in Spanish is recommended. The *Diccionario Castellano, Campano Ilustrado* (Garnier, Paris, price 7 francs), is the most suitable for this purpose.

**FOURTH YEAR ITALIAN.**—The course is practically a continuation of that of the Third year, and similar methods are employed. Lectures are given on the history of literature from Ariosto, inclusive, to the present time. Considerable portions of Ariosto and Tasso are read, together with numerous illustrative extracts from writers of subordinate importance. The elements of historical phonology are briefly presented, and further instruction in this subject is given incidentally in connection with the readings in literature. Students are required to provide themselves with Vols. II and III of Torraca's *Manuale della Letteratura Italiana* (3rd edition, Firenze, Sansoni, 1895 and 1897 respectively). The use of a dictionary entirely in Italian is recommended. Petrocchi's *Novo Dizionario Scolastico* (Milano, Fratelli Treves, price 7 francs) is the most suitable for this purpose.

**FOURTH YEAR SPANISH.**—The course in Spanish is parallel in scope, object and method with that in Italian of the Fourth year. The period of literary history covered is that extending from the beginning of the 17th century to the present time, with the addition of the history of the drama from its origin. Calderon's *La Vida es Sueño* is read, together with numerous illustrative extracts from writers of subordinate importance. The elements of historical phonology are briefly presented, and further instruction in this subject is given incidentally in connection with the readings in literature. Students are required to provide themselves with a copy of *La Vida es Sueño* (Kressner's edition, Leipzig, Renger, or Vol. I of Krenkel's *Klassische Bühnendichtungen der Spanier*, Leipzig, Barth, recommended), with the *Curso de Literatura de García Al-Deguer y Giner de los Ríos* (Madrid, Administracion de la Biblioteca andaluza, 1889), and with Keller's *Altspanisches Lesebuch* (Leipzig, Brockhaus). The use of a dictionary entirely in Spanish is recommended. The *Diccionario Castellano, Campano Ilustrado* (Paris, Garnier, price 7 francs) is the most suitable for this purpose.

#### Oriental Literature.

J. F. McCURDY, PH. D., LL.D. . . . . *Professor.*  
R. G. MURISON, M.A., B.D. . . . . *Lecturer.*

The Oriental course has the main object of affording an introduction to the study of the Semitic languages and literature and of Semitic history. On account of the importance of the literature of ancient Israel, the Hebrew language and the Old Testament in the original are made very prominent throughout the course, being taught in all the years and occupying almost as much time as all the other languages taken together. The aim of the course, more definitely, is to give the student a competent knowledge of the Hebrew text of the Bible and of the literature and history of the Semitic peoples. These ends are kept in view in the General course as well as in the Honor lectures.

For purely linguistic study the General course is confined to Hebrew and Biblical Aramaic, and is so arranged that, with two or three lectures a week throughout the four years, the student may gain some familiarity with the

different kinds of literature in the Old Testament: narrative, historical, prophetic and poetical. The Honor course secures in its Hebrew department an intimate familiarity with the language and literary features of the Old Testament in all its divisions, and at the same time introduces the learner to the other important languages of the Semitic family. In the Second year of the curriculum, which begins the Honor course, the Aramaic is taken up in its two dialects, East and West Aramaic; in the Third year Arabic is the subject of study; and in the Fourth year the student is made acquainted with the Assyrian in the original cuneiform texts. In all the years care is taken not only to impart an exact knowledge of linguistic forms, but also to convey an accurate idea of the genius of the Semitic race and of the several peoples among them who in succession helped materially in the education of the world.

Thus, while Philology is duly studied for its own sake and as an indispensable instrument of research, the whole tendency of the discipline is to make it subservient to the higher ends of literary and historical culture. The Oriental Seminary Room is well provided with maps and other illustrative material; and the library, although so lately founded, has already one of the best selections of Semitic literature, including inscriptions, to be found in America.

A Seminary in Oriental languages will be held weekly for the benefit of advanced students, the work done in which will count as part of the sessional duties. Graduates of the University who may apply for admission may take part in the work of the Seminary. Class examinations in writing will be held at intervals during the year.

*Books Required for Term Work:* Davidson's Hebrew Grammar; Davidson's Hebrew Syntax; Driver's Hebrew Tenses; Davies' Hebrew Lexicon; Text of Old Testament with Massoretic Clavis; Weir's Short History of the Old Testament Text; Nestle's Syriac Grammar and Chrestomathy; Socin's Arabic Grammar and Chrestomathy; Baer and Delitzsch's Texts of Daniel and Ezra with Paradigms; Lyon's Assyrian Grammar; Delitzsch's Assyrian Grammar; Winckler's Assyrische Keilschrift-Texte; Wright's Comparative Grammar of the Semitic Languages; Robertson's Old Testament and its contents; Driver's Literature of the Old Testament; McCurdy's History, Prophecy and the Monuments; Articles in the Encyclopedia Britannica on Hebrew Language, Semitic Languages, Arabic Literature, Septuagint, Targum.

*Books Recommended for Reference and Special Study:* The Hebrew Grammars of Green, Strack, Koenig, Gesenius, Stade; Brown's Gesenius' Hebrew Lexicon; Noeldeke's Syrische Grammatik; Brockelmann's Lexicon Syriacum; Wright's Arabic Grammar; Arabic Lexicons of Lane, Wortabet, and Belot; Renan's Histoire des Langues sémitiques; Conder's Palestine; G. A. Smith's Historical Geography of the Holy Land; Babelon's Manual of Oriental Antiquities; Duncker's History of Antiquity, Vols. IV-VI; Meyer's Geschichte des Alterthums; Maspero's Life in Ancient Egypt and Assyria; Ragozin's Chaldæa and Assyria; Rawlinson's History of Phœnicia, and Five Great Monarchies (Archæological chapters); Kaulen's Assyrien and Babylonien; Schrader's Cuneiform Inscriptions and the Old Testament; Bypaths of Bible



Knowledge ; articles on Semitic literature and antiquities in the Encyclopædia Britannica, especially : Alphabet, Arabia, Asia Minor, Babylonia, Bible, Canaanites, Canon, Egypt, Hittites, Inscriptions, Jerusalem, Mesopotamia, Midrash, Mishnah, Mohammedanism, Nineveh, Palestine, Phœnicia, Samaritans, Syriac Literature, Talmud.

### History.

G. M. WRONG, M.A. ....	<i>Professor of Modern History.</i>
W. S. MILNER, M.A. ....	<i>Lecturer on Roman History.</i>
A. CARRUTHERS, M.A. ....	<i>Lecturer on Greek History.</i>

In the lectures the more important movements will be discussed, and attention will be directed to the causes of social and political changes rather than to narrative history. Special emphasis will be laid upon the history of the British Empire. Honor students in the departments of History and of English and History must write the essays required by the curriculum. With Honor students in History in the Departments of Political Science and Modern Languages this work is optional.

#### A. General Course :—

The General course covers the history of Ancient Greece and Rome in outline in the First year, the history of Mediæval Europe in outline in the Second year, and modern European and American history in outline to the year 1763. In the Fourth year European and American history since 1763 is studied in greater detail, and the course closes with an inquiry into the possibilities of a Philosophy of History. The following list of books has been made as brief as possible, and represents a minimum standard of reading :—

FIRST YEAR : Oman, History of Greece ; Pelham, Outlines of Roman History.

SECOND YEAR : Duruy, Middle Ages, or Ewerton, Introduction to Middle Ages ; do., Mediæval Europe ; Green or Gardiner on England.

THIRD YEAR : Lodge, Modern Europe ; Fiske, Discovery of America, chapters II, III, IV, V, XII ; Goldwin Smith, United States ; Green or Gardiner on England ; Bourinot, Canada (Story of the Nations).

FOURTH YEAR : The books by the following authors set forth fully in the Fourth year Honor course should be read :—On Modern History : Tocqueville, Morse Stephens, Fyfe or Mueller, Channing, Green or Gardiner, Bourinot. On the Philosophy of History : Morris's Hegel. The Philosophy of History is so closely associated with anthropological and ethnological questions that students are recommended to take also the course of study prescribed in Ethnology.

#### B. Honor Course :—

Honor work in History is done in five of the Honor departments of the curriculum. In the Department of History the whole course of study on the curriculum in ancient, mediæval, and modern history is required during the four years, and this study is combined with that of political economy and constitutional law. In the Department of English and History the study of mediæval and modern history is combined with that of literature,

both English and classical; in the Department of Political Science, History is combined with economic and legal study, and in the Department of Classics with Greek and Latin literature. In the Department of Modern Languages History is allowed as an option for Italian or Spanish in the Third year, and together with Historical Grammar for Old English or Italian or Spanish in the Fourth year. Candidates desiring to qualify in the Education Department as specialists in English and History are required to take the History option. The essays required must be based upon the study of some of the original authorities for a selected short period, and in judging them regard will be had to both their literary and historical merits.

The following list of works has been made as brief as possible, and represents a minimum standard of reading for the periods covered. The list applies in its entirety only to students in the Department of History. Students taking Honor History in connection with other departments can determine by reference to the curriculum what portions of the list apply to their work. For Constitutional History a list will be found in the Department of Political Science.

FIRST YEAR: Oman, History of Greece; Pelham, Outlines of Roman History.

SECOND YEAR: (a) *Ancient History*: Oman's History of Greece; the portions of Grote, Mommsen and Livy prescribed in the curriculum; Fustel de Coulanges, *La Cité Antique* (English translation, "The Ancient City").

(b) *Medieval History*: Hodgkin, *The Dynasty of Theodosius*; Bryce, *Holy Roman Empire (to the Fall of the Hohenstaufen)*; Duruy, *Middle Ages, or Ewerton, Introduction to Middle Ages*; do., *Medieval Europe*; Green or Gardiner on England.

THIRD YEAR: (a) *Ancient History*: Oman, History of Greece; the portions of Grote, Mommsen and Tacitus prescribed in the curriculum.

(b) *Modern History*: Bryce, *Holy Roman Empire (from the Fall of the Hohenstaufen)*; Lodge, *Modern Europe*; Symonds, *Short History of the Renaissance in Italy*; Seeley, *Expansion of England*; Fiske, *Discovery of America*, chapters II, III, IV, V, XII; Fisher, *The Colonial Era (American History Series)*; Parkman's *Historical Works*, with special reference to *The Old Régime in Canada*; Bourinot, *Canada (Story of the Nations)*; Green or Gardiner on England.

FOURTH YEAR: (a) *Ancient History*: The portions of Thucydides, Herodotus, Grote, Cicero, Mommsen and Merivale prescribed in the curriculum; Boissier, *l'Opposition sous les Césars*, and *La Religion Romaine*.

(b) *Modern History*: Tocqueville, *France Before the Revolution*; Morse Stephens, *European History, 1789-1815*; Fyffe, *Modern Europe, Period since 1815, or Mueller, Political History of Recent Times with special reference to Germany*; Channing, *The United States of America 1765-1865 (Cambridge Historical Series)*; Green or Gardiner on England; Bourinot, *Canada (Story of the Nations)*, Morris, *Exposition of Hegel's Philosophy of History (Griggs' Philosophical Classics)*.

(c) *Ethnology*: Ktane, *Ethnology*; Tylor, *Anthropology*. The lectures will be illustrated by maps, skulls, primitive implements, etc.

**Political Science.**

- JAMES MAVOR ..... *Professor of Political Economy and Constitutional History.*  
 HON. D. MILLS, LL.B. .... *Professor of Constitutional and International Law.*  
 HON. MR. JUSTICE PROUDFOOT. *Professor of Roman Law.*  
 GEORGE M. WRONG, M.A. .... *Professor of Modern History.*  
 S. M. WICKETT, B.A., PH.D. ... *Fellow.*

*A. General Course :—*

Lectures will be given as follows to those students who require to take Political Science in the General course.

**THIRD YEAR.**—*Constitutional History.* The elements of English Constitutional History. Books for reference: Fielden's Constitutional History; Henderson's Historical Documents of the Middle Ages; Taswell-Langmead, Constitutional History of England; Bagehot, The English Constitution; Dicey, the Law of the Constitution.

**FOURTH YEAR.**—*The Elements of Political Economy.* The lectures, text-books and examinations are the same as those prescribed for students taking the Second year Honor course. See below.

*Canadian Constitutional History.* See synopsis of this subject in Honor course below.

*B. Honor Course :—*

The special subjects of study in the Honor course in Political Science are economic history and theory, constitutional history, international and constitutional law, jurisprudence, history and philosophy with special reference to the growth of political ideas. The Honor course begins in the Second year in Arts and continues for three years.

Prior to entrance into the Honor course in Political Science, candidates must have passed the Honor examination of the First year in one or other of the following subjects: Latin; Greek; any two of the three languages, English, French, German.

**SECOND YEAR.**—*Economics.* The lectures give a general introduction to the study of modern political economy. The chief text-book is Marshall's Principles of the Economics of Industry, Vol. I. The following works will also be found useful: Gide's Political Economy; Smart's Introduction to the Theory of Value; Devas' Political Economy; Ely's Introduction to Political Economy; Mavor's Economic History, Tables and Diagrams.

*English Constitutional History to Magna Charta.* The chief topics are the Hundred and County Courts, the Witenagemot, the Feudal System. The principal constitutional documents are required to be studied. A list of these documents is furnished to students. For reference, selected portions of Stubbs, Constitutional History, to be designated by the lecturer; Fielden's Constitutional History; Henderson's Historical Documents of the Middle Ages; Introduction to Stubbs' Select Charters; Freeman's Growth of the English Consti-

tution; Bagehot's English Constitution; Wakeman & Hassall's Constitutional Essays (excepting Essay I); Taswell-Langmead's English Constitutional History; Bibliographical Notes No. 1, English and Canadian Constitutional History.

*Roman History to 266 B. C.* Mommsen, Bks. I and II, and Fustel de Coulanges' *La Cité Antique*. See Department of Classics.

*Medieval History to 1250.* See Department of History.

*Mathematics.* Special class in the elements of the Infinitesimal Calculus with Elements of Analytical Geometry.

THIRD YEAR.—*History and Criticism of Economic Theory.* The course of lectures will present a systematic account of the development of the history of economic theory and a criticism of current economic theories of value, interest, rent, wages and international trade. The chief text-book for the work of the Michaelmas Term is Ingram's *History of Political Economy*, and for the work of the Easter Term, Marshall's *Principles of Economics*, Vol. I. Students are also expected to study Böhm-Bawerk's *Capital and Interest*, and The *Positive Theory of Capital* (transl. Smart); Wieser's *Natural Value*; Smart's *Introduction to the Theory of Value*. The following books will also be useful: Cossa's *Introduction to the Study of Political Economy*; Bonar's *Philosophy and Political Economy*; Nicholson's *Principles of Economics*; Keynes' *Scope and Method of Political Economy*, chaps. 1-3, 7, 9. Bastable's *Theory of International Trade*, and *The Commerce of Nations*; Adam Smith's *Glasgow Lectures*, ed. Cannan; Adam Smith's *Wealth of Nations*, ed. Nicholson; Ricardo's *Works*, ed. Gonner.

*Modern History, from 1250 to 1763.* See Department of History.

*English Constitutional History from Magna Charta.* The lectures are in continuation of those of the Second year. They deal with the Growth of Parliament, and of Responsible Government. The books recommended are the same as those in the Second year.

*English Constitutional Law.* The lectures on this subject comprise a discussion of the Royal Prerogatives; the constitution and functions of the two Houses of Parliament, the constitution of the Executive Government; the rise of the Cabinet and its relation to the Crown and the two Houses of Parliament; the military forces of the Crown, the constitution of the judicial department of government and its relation to the Crown and to Parliament, and the rights and obligations of the subject, the leading cases, the constitutional statutes, and the conventions of the constitution are discussed. For reference: Dicey's *Law of the Constitution*; Hearn's *Government of England*; Traill's *Central Government*; Boutny's *Studies in Constitutional Law*, Part I; Broom's *Constitutional Law*; Anson's *Law and Custom of the Constitution*.

*Colonial Constitutional Law.* The lectures on this subject trace the sources of Colonial Constitutional Law; the prerogatives of the Crown in the constitution of colonial governments; different forms of government; colonies by occupancy; colonies by cession and conquest; powers of Parliament in respect to the colonies; conventional limitations arising from local self-government.



For reference : Creasy's Constitutions of the British Empire ; Forsyth's Cases and Opinions on Constitutional Law ; Todd's Parliamentary Government in the Colonies, as far as page 318 ; Tarring's Law in Relation to the Colonies.

*History of English Law.* The history of the English law from the Roman Conquest until the Norman Conquest ; the Roman occupation ; the Saxon invasions ; the laws of the Confessor ; the change effected in the law, especially of real property, by the Conqueror and his successors,—the introduction or extension of the feudal system ; the difference between that system on the continent and in England ; the creation of new tenures ; the Great Charter and its frequent renewals, as showing the condition of the people, and the evils to be remedied ; the great changes effected by the legislation of Edward I and Edward III ; the creation of entailed estates ; the struggle to obtain power to alienate them ; legislation to restrict alienations in mortmain ; the evasion of the law ; the law giving power to devise lands, and the legislation of Elizabeth to prevent frauds upon creditors and purchasers ; the abolition of feudal tenures by Charles II. The efforts in the reign of George III to ameliorate the criminal law, and the English Statutes after 1792 that have their counterpart in our Colonial legislation are discussed and explained. For reference : Reeve's History of English Law ; Pollock and Maitland's History of English Law ; Hale's History of English Law ; Blackstone's Commentaries ; a collection of English Statutes, and the Revised Statutes of Canada, and of Ontario.

*History of Roman Law.* The lectures on Roman Private Law comprise a sketch of the history of the law from the time of the decemviri to the death of Justinian, giving an account of the growth of the unwritten law, of judicial legislation to the suppression of the formulary system by Diocletian, and from that time to the death of Justinian, and treating of the statutory legislation during the Republic and under the Empire, and of the several attempts to form a code, finally terminated by the work of Justinian. The larger number of lectures is devoted to the substance of Roman Law during the reign of Justinian. The law of testamentary succession, the various kinds of wills, the duties of the heir, the gift of legacies, and the history of trust gifts and codicils are explained. The remedial processes for the protection and enforcement of rights are traced from the *legis actiones*, the changes effected by the formulary system, the summary jurisdiction of the praetor, the abolition of the formulary system, terminating in the *extraordinaria cognitio*. The series is closed by a discussion of the law as to specific performance of contracts ; of the law as to frauds upon creditors ; and an examination of the influence of Christianity upon Roman legislation. For reference : Muirhead's Historical Introduction to the Private Law of Rome ; Sandars' Justinian ; Institutes of Gaius, translated by Muirhead. The Digest, the Code, and the Novels should be consulted.

FOURTH YEAR.—*Economic History.* The lectures will trace economic history from the early middle ages down to modern times, with special reference to England. Books recommended : Ashley's Economic History, Parts I, II ; Toynbee's The Industrial Revolution ; Seebohm's English Village

Community; Vinogradoff's Villenage in England; Gomme, The Village Community; Gross' Guild Merchant, chaps. 1-4; Rogers' Six Centuries of Work and Wages, chaps. 1-6, 8-10; Cunningham's Growth of English Industry and Commerce (ed. 1890); Marshall's Principles, Bk. I, chaps. 2, 3; Jevons' State in Relation to Labour, chaps. 3, 4, 6, 7; Fowle's Poor Law, chaps. 1, 3, 4; D. A. Wells' Recent Economic Changes; Ely's Labour Movement in America, chaps. 3, 4; Webb's History of Trade Unionism; Menger's Right to Labour.

**Public Finance.** The lectures will deal with National and Local Finance, and with important questions of modern economic policy. They will discuss, among other topics: the History of Public Finance and of Financial Science; the Currency and Banking Systems of Great Britain, Canada and the United States; Public Debts and the Policy of National and Local Governments in relation to them; Methods of Extinction and Conversion of Debt; Sinking Funds; Public Domain—Lands, Forests, Minerals; Railroad Policy, its history in Europe and America; Principles of Taxation; Incidence of Taxation; Tariff Policy—outline of its history in Great Britain, Canada and the United States; Local Taxation in Canada and the United States. Books recommended: Bastable's Public Finance; Bastable's The Theory of International Trade; Seligman's The Incidence of Taxation; Seligman's Essays in Finance; Elliott's The Tariff Controversy in the United States; Cossa's Taxation; Dunbar's Theory and History of Banking; Walker's Money, Trade and Industry; Adams' Public Debts; Ely's Taxation; Hadley's Railroad Transportation; Mavor's English Railway Rates; Bagehot's Lombard Street; Jevons' Money; Leroy-Beaulieu's Science des Finances, Livre II, chaps. 4, 5, 9, 10; Giffen's Essays in Finance, 1st series, IX; Taussig's Tariff History of United States.

**Statistics.** A brief course of lectures will be given on methods of social investigation, with especial reference to statistical method, statistical organization and administration.

Students should have read article *Statistique* in *Dictionnaire d'économie politique*, or introductory chapter on Statistics in *Levasseur's La population française*. Compare in general *Mayr, Statistik und Gesellschaftslehre*; *Block, Traité théorique et pratique de Statistique*; *Mayo Smith, Statistics and Sociology*.

**Modern History from 1763 to the present time.** See Department of History.

**Political Philosophy.** History and Criticism of Political Theories. The following are recommended for study: *Sidgwick's Elements of Politics*; *Pollock's History of the Science of Politics*; *Bonar's Philosophy and Political Economy*; *Ritchie's Principles of State Interference*; *Seeley's Introduction to Political Science*; *Mackenzie's Introduction to Social Philosophy*.

**General Jurisprudence.** In lecturing on this subject, the attention of the student is directed to the definition and analysis of *law* and of *rights*, to the sources of law, to the classification of rights, to the consideration of antecedent rights *in rem* and *in personam*, to remedial rights, to adjective private law, to the nature of public law and its various divisions, to international law,

and to the application of law. For reference: Holland's Elements of Jurisprudence; Austin's Elements of Jurisprudence (Campbell's Students' edition); Maine's Ancient Law, and Early History of Institutions (Lectures XII, XIII).

*Public International Law.* Besides the elementary principles of International Law, the lectures comprise a discussion of the growth of International Law, its sources, and the characteristics which distinguish it from international morality. Also a discussion of the doctrine of non-intervention, of the Monroe Doctrine, and of the various treaties and conventions relating to Canada. Controversies raised by the Civil War in the United States. The Geneva Arbitration and the rights of neutrals. For reference: Wheaton's International Law (ed. Boyd); Hall's International Law, or Kent's International Law (ed. Abdy).

General Jurisprudence and Public International Law together are alternative to the Honor History of Philosophy of the Fourth year, for which see Department of Philosophy.

*Federal Constitutional Law.* The lectures deal with the origin of the United States Constitution and the relation of the federal government to the States; the federal institutions, legislative and executive and judicial, and the leading decisions of the Courts in reference to the same. The Constitution in Canada; rules of interpretation applied by the Supreme Court of the United States; rules of interpretation applied by the Judicial Committee in construing the Constitution in Canada. For reference: Houston's Constitutional Documents of Canada; Lefroy's Law of Legislative Power in Canada; Todd's Parliamentary Government in the Colonies, page 318 to the end of the volume; Clement's Constitution of Canada or Munro's Constitution of Canada; Cartwright's Decisions on the B.N.A. Act; Cooley's Principles of Constitutional Law in the United States; Pomeroy's Constitutional Law; Boutmy's Constitutional Law, Part II and III. On the Constitution of the United States; Story, Hare, Miller, and Bryce; Todd's Parliamentary Government in England (ed. Walpole).

*Canadian Constitutional History.* Character of French Settlement; Nature of European Claims to Territory; Government by Trading Companies; Growth of Rule by Colonial Policy as distinguished from Trading Company Policy; Establishment of Provincial Organization in 1663; the Sovereign Council; Growth of the Superior Council; Local Government; Land Tenures; Church and State; the Conquest; Treaty of Paris; English Colonial Policy; Struggle for Responsible Government; Growth of Parties in Upper and Lower Canada; Lord Durham's Report; Union Act; Quebec Conference; Confederation; Relation of Dominion to Great Britain; Relation of Provinces to Dominion; Comparison of B. N. A. Act with Constitutions of United States and of England; Growth of Local Government in Ontario; A list of the principal constitutional documents which are required to be studied will be furnished to students. For reference: Bourinot's Constitutional History of Canada; Ashley's Earlier Constitutional History of Canada; Parkman's Old Régime; Munro's Constitution of Canada; Story's Introduction to Constitution of the

United States; Houston's Canadian Constitutional Documents; Christie's History of Lower Canada; Kingsford's History of Canada; McEvoy's The Ontario Township (University of Toronto Studies in Political Science, 1st series, No. 1).

*Term Work in Honors.* The following term work is required in subjects to be prescribed by the Professor of Political Economy and Constitutional History:—

SECOND YEAR: Two essays in each term, in all four essays; and also a Term examination to be held before or shortly after Christmas vacation.

THIRD YEAR: Two essays in each term, in all four essays; and also a Term examination to be held before or shortly after Christmas vacation.

FOURTH YEAR: Two essays in each term, in all four essays; and also a Term examination to be held before or shortly after Christmas vacation.

In each year such term work and examination count for Honors in the annual examination.

The Departmental Library in Economics is open under certain conditions to all Honor students in the Department of Political Science. Tutorial classes in Economics and in Constitutional History are held several times each week during the Michaelmas and Easter terms. Facilities for research are afforded to senior students and also to graduates who desire to prosecute the study of any of the subjects in the Department.

### Philosophy.

- J. G. HUME, M.A., PH.D. . . . . *Professor of Ethics and History of Philosophy.*  
 A. KIRSCHMAN, M.A., PH.D. . . . . *Director of the Psychological Laboratory and Lecturer on Philosophy.*  
 F. TRACY, B.A., PH.D. . . . . *Lecturer on Philosophy.*  
 A. H. ABBOTT, M.A. . . . . *Assistant in Psychological Laboratory and Special Instructor in Philosophy.*

The work of this Department is pursued during the Second, Third and Fourth undergraduate years. The course embraces Logic, Psychology, Metaphysics, Ethics and History of Philosophy. In every case the work in Philosophy of the General Course is to be taken by Honor students, and will be counted along with the Honor work in determining their standing.

### LOGIC.

#### A. General Course:—

SECOND YEAR.—A course of lectures is given dealing with the scope and method of Logic; the nature of Deductive and Inductive Reasoning, and their relation to each other; the Definition of Terms; the Laws of Thought; the Form of the Judgment and their mutual relation; the Syllogism; the Canons and Methods of Inductive inquiry; the detection and rectification of ambiguities in reasoning and logical fallacies. Exercises in logical problems are given



from time to time and corrected. Books recommended: Creighton, Introductory Logic; Jevons, Elementary Lessons in Logic; Fowler, Inductive Logic; Hyslop, The Elements of Logic.

*B. Honor Course:—*

**THIRD YEAR.**—A course is given in the study and criticism of Mill's System of Logic, the exposition of scientific methods, and the discussion of the philosophical presuppositions underlying theories of Induction. The ground covered in the lectures of the General course will not be taken up here, but will be presupposed. Books recommended: Mill, System of Logic; Bradley, Principles of Logic; Venn, Empirical Logic; Jevons, Principles of Science; Jevons, Studies in Logic.

PSYCHOLOGY.

*A. General Course:—*

**SECOND YEAR.**—The lectures deal, in a general way, with the phenomena of consciousness, their description, correlation and classification; covering, in outline, the whole field of psychic phenomena. The course is designed to introduce the subject, to familiarize the student with fundamental principles, and lead him to observe his own mental states. Term work is required. Books recommended: Wundt, Grundriss der Psychologie (English translation); Höffding, Outlines of Psychology; Titchener, Primer of Psychology.

*B. Honor Course:—*

**SECOND YEAR.**—An introductory course on Experimental Psychology is given, dealing with the senses of taste and smell, and the dermal and kinæsthetic senses. Special attention is given to the Psychophysical methods and their application. In this connection students are required to familiarize themselves with the elements of the Infinitesimal Calculus and Analytical Geometry. Books recommended: Wundt, Outlines of Psychology, Human and Animal Psychology; Ladd, Elements of Physiological Psychology; Scripture, The New Psychology.

**THIRD YEAR.**—(a) General: The lectures deal with such special problems as: Association, Memory, Attention, Emotion, Volition. Books recommended: Wundt, Outlines of Psychology, Human and Animal Psychology; Külpe, Outlines of Psychology; Bain, Senses and Intellect, Emotions and Will; James, Psychology; Baldwin, Handbook, The Mental Development in the Child and the Race; Ladd, Psychology Descriptive and Explanatory; Sully, the Human Mind; Stout, Analytic Psychology; Tracy, Psychology of Childhood (2nd ed.).

(b) Experimental: The lectures on experimental Psychology (three hours per week) deal with the chief problems of contemporary Psychology, in so far as they are accessible to exact experiment, special attention being devoted to the Psychology of the higher senses (Psychological Optics and Acoustics) and to the time-relations of Mental Phenomena. The practical work (one to two hours per week) in the laboratory is designed to afford the student an opportunity to become familiar with experimental methods. There is no text-book for this course; but as recommended books may be mentioned: Wundt, Physiologische

Psychologie (4th ed.); Ladd, Elements of Psychology; Wundt, Human and Animal Psychology (English Translation by Titchener and Creighton); Külpe, Outlines of Psychology; Ribot, German Psychology of To-day; Sanford, Laboratory Course.

FOURTH YEAR.—The Fourth Year consists partly of a supplementary series of lectures on metaphysical problems in their relations to Psychology, and partly of experimental work in the laboratory. The lectures are devoted to the criticism of Materialism and to a presentation of the philosophical views of Wundt in outline. In the Laboratory, the students work in groups under the guidance of the Director of the Laboratory, or his Assistant, upon special experimental investigations. The subjects of these investigations, which are at the same time intended to lead to useful results and to make the students familiar with the nature and difficulties of exact research, are arranged at the beginning of the term. The students are required to acquaint themselves with the literature relating to their special subject, to keep a record of their investigations, and to hand in at the end of the Easter term a detailed statement of results obtained, and of their significance.

Graduates have full opportunity for independent investigations in the Laboratory.

METAPHYSICS.

*Honor Course :—*

SECOND YEAR: Theory of Knowledge—Honor students are required to read Locke's *Essay on the Human Understanding*; Berkeley's *Principles of Knowledge*; and Hume's *Treatise on Human Nature*, Book I. They are expected to write expository summaries of these works, and to discuss and criticize them in the class. It is the aim of the lectures to assist the student in making the transition from observation and analysis of mental phenomena to the reflective consideration of the underlying philosophical principles. Books recommended: Fraser, *Selections from Berkeley, Locke and Berkeley* (Blackwood's Series); Green, *Introduction to Hume, Prolegomena to Ethics* Bk. I; Aikins, *The Philosophy of Hume*; Ward, *Psychology in Encyclopædia Britannica*, 9th ed.; Dewey, *Psychology*.

FOURTH YEAR.—Theories of Knowledge and Being: Several courses are given as follows: 1. A course of lectures setting forth the lecturer's views of the principles and methods of philosophical speculation, and showing the interrelation of Logic, Psychology, Metaphysics and Ethics. No text-books are prescribed in this course, but certain reading may be recommended from time to time in the lecture-room. 2. A careful study of Aristotle's *Metaphysics*, and Kant's *Prolegomena*. Kant's *Critiques* will be studied in connection with the class in *History of Philosophy* (See *History of Philosophy*, IV year). 3. Lectures on the chief problems of Philosophy, as they have been dealt with by representative thinkers: (a) For 1900 these lectures will be based upon the Metaphysical works of Des Cartes, Spinoza, Leibnitz, Lotze, Wundt. (b) For 1901 they will be based upon the works of Hamilton, Mansel, Comte, Mill and Spencer. 4. A seminary is held for the study of advanced Metaphysical problems.

In the seminars papers are read and discussed by the members. Everything is done to encourage independent thinking on the part of the students. Graduates may become members of any of the seminars in the Department of Philosophy by arrangement with the professor in charge.

## ETHICS.

*A. General Course :—*

THIRD YEAR.—(a) Theory of Obligation : Lectures on the scope and methods of Ethics, the relation of Moral Philosophy to Natural Science, The Moral Ideal, Personality, Instinct, Desire, Motive, Volition, Freedom of the Will, Conscience, Duty, Responsibility, Sensational Theories, Intuitionist Theories, Transcendental Theories, Relation of Ethics to Theoretical Philosophy, Political Economy, and Religion. Essays will be written by members of the class, and examinations held during the term. Books recommended : Hyslop, Bowne, Seth, Muirhead, Calderwood, Pt. I., Chaps. I-IV ; Green, Prolegomena to Ethics, Book II. (b) History of Ethics : The lectures cover the ground from Hobbes to the present time. Attention is given to fundamental standpoints rather than to details of doctrine. The interrelation of the various historical phases of Ethical thought are considered, the development of cardinal doctrines followed, and the chief representatives of the leading schools expounded. Books recommended : Sidgwick, History of Ethics ; Bain, Moral Science ; Watson, Hedonistic Theories.

*B. Honor Course :—*

THIRD YEAR.—(a) Theory of Ethics : The students in this course will make, under the guidance of the professor in charge, a special and careful study of Green's Prolegomena to Ethics. Lectures will be given to assist in the exposition, explanation, and estimation, of Green's position. (b) History of Ethics : This course is supplemental to, and given in connection with, the General course on the History of Ethics. The aim of the lectures is to set in a clear light the real significance of the problems occupying the attention of moralists, and to estimate the solutions that have been offered for these problems. Books recommended : Martineau, Types of Ethical Theory ; Butler's Sermons ; Mill, Utilitarianism ; Spencer, Principles of Morality ; Janet, Theory of Morals ; Sidgwick, Methods of Ethics ; Jodl, Geschichte der Ethik ; Courtney, Constructive Ethics ; Sorley, the Ethics of Naturalism ; D'Arcy, Short Study of Ethics ; Fairbrother, Philosophy of T. H. Green ; Mackenzie, Manual of Ethics. (c) Applied Ethics : The class will meet once a week for the reading and discussion of papers written by members of the class. In these essays an attempt will be made to apply ethical principles to the investigation of social problems, such as Temperance, Charity, Socialism, etc. Books recommended : Spencer, Man vs. State ; Ritchie, Principles of State Interference ; T. H. Green, Lectures on Political Obligation, A. M. N., in Vol. II. ; J. G. Hume, Value of a Study of Ethics, Political Economy and Ethics, Socialism.

FOURTH YEAR.—In this year the Honor students will be expected to make a thorough study of representative Ethical writers of ancient and modern times, and also to undertake independent investigations into social problems of the

present time, requiring for their solution the application of Ethical principles : Aristotle, Nicomachean Ethics ; Kant, Grundlegung zur Metaphysik der Sitten ; Kritik der praktischen Vernunft. In 1899-1900, Sidgwick, The Methods of Ethics ; in 1900-01, Leslie Stephen, The Science of Ethics. Stephen and Sidgwick in alternate years. Essays : Application of Ethical principles in the examination of Problems in Political Economy, Sociology and Criminology.

HISTORY OF PHILOSOPHY.

*A. General Course :—*

**FOURTH YEAR.**—A course is given, intended as an introduction to the critical study of Philosophy. The student is led to trace the development of philosophical speculation from the beginning of Modern Philosophy up to the time of Kant ; to discover the relation of the various thinkers to one another ; to estimate the contribution made by each ; and to note how inadequacies and errors were subsequently met and corrected. Books recommended : Weber, Windelband, Falckenberg, Schwegler.

*B. Honor Course :—*

**THIRD YEAR.**—Lectures are given on the History of Ancient and Mediaeval Philosophy. The chief centre of interest is the Platonic Philosophy ; but the Pre-Socratic and Post-Aristotelian periods are dealt with as fully as time permits ; the former, as the essential prelude to the study of the Platonic Philosophy ; the latter, as showing the various directions in which its influence was felt in later times. The influence of Christianity on philosophic thought ; the main features of Scholasticism ; and the preparation of the thinking world for Modern Philosophy, are considered. Special attention is given to connecting links, and the relation of the thinkers to one another. An extra hour a week will be devoted to a more special study of some of the more important Platonic Dialogues. Books recommended : Weber ; Zeller ; Ueberweg ; Butler ; Erdmann ; Windelband ; Ferrier ; Schwegler ; Bann ; Tennemann ; Burt ; Mayor ; Jowett's Plato ; Grote's History of Greece (chapter on the Sophists) ; Aristotle's works.

**FOURTH YEAR.**—(a) Pre-Kantian Period : Honor students will attend the lectures on this period given to the students of the General course (see above), and the class reading selections in Metaphysics (see Metaphysics Fourth year). Books recommended : Erdmann ; Ueberweg. (b) Kant : The development of the Kantian Philosophy, through the Critiques and Prolegomena, is followed. The Kritik der reinen Vernunft and the Kritik der Urtheilskraft are carefully studied in the class, essays by the students, are read and discussed, and lectures are given on Kant's relation to previous philosophers, the significance of his new method, the various links in his system and the positive and negative elements in his philosophy. Books recommended : Caird ; Watson ; Morris ; Stirling ; Mahaffy and Bernard ; Adamson ; Vaihinger ; Erdmann ; Riehl. (c) Post-Kantian Period : Lectures will trace the development of Idealism after Kant, sympathetic and antagonistic. Special attention is given to Fichte, Schelling, Hegel, Schopenhauer, Von Hartmann, Herbert Spencer and Wundt.



A seminary in the History of Philosophy is conducted for the reading and discussion of papers written by the students. Books recommended: (a) General Histories: Kuno Fischer; Windelband; Falckenberg; Ravaisson; Lewes; Morell; Külpe; Paulsen. (b) Special: On Hobbes, Croom Robertson; on Des Cartes, Kuno Fischer; on Spinoza, Pollock, Caird; on Locke, Berkeley and Hume, Green, Frazer, Selby-Bigge; on Leibnitz, Dewey, Latta; on Scottish Philosophy, Seth, Murray, Bowen, McCosh; on Kant (see above); on Fichte, Everett, Adamson; on Schelling, Watson; on Hegel, Wallace, Caird, Harris, Royce, Sterrett; on Spencer, Watson, Collins; on Schopenhauer and Von Hartmann, Bowen, Caldwell.

NOTE.—Candidates from St. Michael's College may substitute Lorimer's Institutes of Law for Kant's Ethics in the Fourth year; and also Aristotle's Ethics, Bks. I-IV in the original, and one of Plato's Dialogues in the original, for the Experimental Psychology in the Fourth year.

#### Mathematics.

ALFRED BAKER, M.A. ....	<i>Professor.</i>
A. T. DELURY, M.A. ....	<i>Lecturer.</i>
H. J. DAWSON, B.A. ....	<i>Fellow.</i>

Supplemental to the General course of the First year, embracing Euclid, Elementary Algebra and Trigonometry, a course is offered in Permutations, Combinations and Binomial Theorem, and also in Elementary Analytical Geometry of two dimensions, suitable for such as, in the Second year, wish to enter upon the study of Elementary Infinitesimal Calculus. The course in Elementary Analytical Geometry is valuable also for its own sake, as it establishes the more important properties of the Conic Sections.

In the Honor work of the First year the following text-books are recommended: Hall and Knight's Higher Algebra, C. Smith's Treatise on Algebra, Todhunter and Hogg's Trigonometry, Hobson's Trigonometry, Todhunter's Spherical Trigonometry, C. Smith's Conic Sections, Salmon's Conic Sections.

In the Second year the elementary course in Differential and Integral Calculus is designed to afford such knowledge of the character, methods and place in science of this important subject as educated men should possess, and also to enable students in Chemistry, Engineering, etc., to understand those of their text-books in which the Calculus is introduced.

A further course of lectures is given in the elements of Analytical Geometry and of the Infinitesimal Calculus, intended specially for students in Economics, who it is hoped will thus be in a position to follow recent developments in this science.

In the Honor work of the Second year the following text-books are recommended:—Williamson's Differential Calculus, Williamson's Integral Calculus, Kiepert's Differential-und Integral-Rechnung. C. Smith's Solid Geometry, Evans' Main's Principia, Frost's Principia. For the remainder of the work in the Second year, see Department of Physics.

Mathematical students in the Third year take Theory of Equations, including Determinants continued from the First year; text-book—Burnside and Panton. For the remainder of the work in the Third year, see Department of Physics.

In the work of the Fourth year the following text-books are recommended: Newcomb and Holden's Astronomy, Barlow and Bryan's Elementary Mathematical Astronomy, Godfray's Astronomy, Chauvenet's Astronomy; Godfray's Lunar Theory; Cheyne's Planetary Theory; Johnson's Differential Equations, Forsyth's Differential Equations; Page's Ordinary Differential Equations, Murray's Introductory Course in Differential Equations; Salmon's Higher Plane Curves; Kelland and Tait's Quaternions, Hime's Outlines of Quaternions, Tait's Quaternions; Elliott's Algebra of Quantics, Salmon's Higher Algebra; Mathew's Theory of Numbers; Netto's Theory of Substitutions; Durège's Theory of Functions, Forsyth's Theory of Functions, Harkness and Morley's Theory of Functions; Dixon's Elliptic Functions, Cayley's Elliptic Functions, Appell and Lacour's Fonctions Elliptiques; Papelier's Coordonnées Tangentielles; Ferrers' Trilinear Coordinates; Cremona's Projective Geometry; Lachlan's Modern Pure Geometry.

By courtesy of the authorities of the observatory, students have access to and use of the astronomical instruments.

The Department is furnished with the admirable thread and plaster models of Brill for illustrating the teaching of Geometry of three dimensions.

### Physics.

JAMES LOUDON, M.A., LL.D. ....	<i>Professor.</i>
W. J. LOUDON, B.A. ....	<i>Demonstrator.</i>
C. A. CHANT, B.A. ....	<i>Lecturer.</i>
J. C. McLENNAN, B.A. ....	<i>Assistant-Demonstrator.</i>

The work of instruction in Physics consists of courses of lectures and of practical work in the laboratories. The lectures include, (1) an introductory course for Medical students, (2) an elementary course illustrated by experiments in Mechanics, Hydrostatics, and Heat, as required by students of the First year in Arts, (3) a similar course in Optics, Electricity and Magnetism for students of the Second year in Arts, (4) a similar course on Acoustics and Physical Optics for students of the Third year in Arts, and (5) advanced courses on Mathematical Physics for Honor students in the Second, Third and Fourth years in Arts.

The elementary courses for students of the First, Second and Third years in Arts are also attended by students in Engineering, Architecture and other departments.

In the practical work of the Laboratory there are at present eleven courses, six elementary and five advanced, which have been arranged to meet the requirements of Arts students, Engineers, Architects, and candidates for specialists' certificates at the Education Department.

*Text-books: General Physics:* Ganot's Physics; Hastings and Beach's General Physics. *Elementary Mechanics:* Lock, Mechanics for Beginners; Glazebrook, Statics and Dynamics. *Elementary Hydrostatics:* Glazebrook, Hydrostatics. *Elementary Heat:* Glazebrook, Heat; R. W. Stewart, Text-book of Heat. *Elementary Light:* Glazebrook, Light. *Elementary Electricity and Magnetism:* Poysner, Advanced Magnetism and Electricity; Silvanus Thompson, Elementary Lessons. *Advanced Mechanics:* Minchin, Statics; Routh, Statics; Tait and Steele, Dynamics of a Particle. *Geometrical Optics:* Jamin, Optique Géométrique. *Hydrostatics:* Besant. *Rigid Dynamics:* Loudon. *Acoustics:* Donkin. *Elasticity,* Williamson. *Physical Optics:* Preston, Theory of Light. *Thermodynamics:* Clausius, Mechanical Theory of Heat. *Electricity:* J. J. Thomson, Elements of Electricity and Magnetism. *Least Squares:* Merriman. *Practical Physics:* Loudon and McLennan.

*Works of Reference: General Physics:* Deschanel's Natural Philosophy (by Everett); Jamin's Cours de Physique; Violle's Cours de Physique; Daniell; Gallatly; Nichols and Franklin; Jones's Examples in Physics; Thomson and Tait's Natural Philosophy; Christiansen; Macfarlane's Tables; Chambers's Tables. *Elementary Mechanics:* Briggs and Bryan, Statics, Dynamics; Magnus; Loney, Dynamics; Garnett, Dynamics; Clifford; Greaves; Hicks. *Elementary Hydrostatics:* Loney, Mechanics and Hydrostatics; Briggs and Bryan. *Elementary Heat:* Jones, Heat and Light; Garnett; Tyndall; Balfour Stewart; Tait. *Elementary Light:* Jones, Heat and Light; R. W. Stewart; Tyndall; Tait; Wright, Light, Optical Projection. *Elementary Electricity and Magnetism:* Cumming; Larden; R. W. Stewart; Day, Exercises in Electricity and Magnetism. *Elementary Sound:* Catchpool; Tyndall; Zahn; Taylor, Sound and Music; Blaserna; Stone; Mayer; Capstick. *Advanced Mechanics:* Minchin, Statics; Routh, Statics; Ziwet; Todhunter, Statics; Besant, Dynamics; Williamson and Tarleton, Dynamics; Price, Infinitesimal Calculus; Resal; Appell, Traité de Mécanique rationnelle. *Geometrical Optics:* Aldis; Heath; Parkinson. *Hydrostatics:* Besant; Minchin; Greenhill. *Rigid Dynamics:* Routh; Pirie; Worthington, Dynamics of Rotation; Aldis. *Acoustics:* Rayleigh, Theory of Sound; Helmholtz, Sensations of Tone; Airy, Sound; König, Quelques Expériences; Chladni; Radau. *Physical Optics:* Jamin; Verdet; Basset; Glazebrook; Lommel; Mascart. *Elasticity:* Lamé; Ibbetson; Love; Todhunter, History. *Hydrodynamics:* Lamb; Basset. *Heat:* Preston; Maxwell; Tait. *Electricity:* Emtage; Maxwell; Mascart and Joubert; Gerard; Gray; Heaviside; Watson and Burbury; Ebert; Du Bois; Foster and Atkinson's Joubert; Glazebrook; Webster. *Least Squares:* Merriman; Wright, Adjustment of Observations; Airy, Theory of Errors; Holman; Johnson; Comstock; Gauss. *Practical Physics:* Stewart and Gee; Glazebrook and Shaw; Kohlrausch, Physical Measurements; Witz; Ayrton, Practical Electricity; Kempe; Nichols.

**Biology.**

- R. RAMSAY WRIGHT, M.A., B.Sc. . . . . *Professor.*  
 A. B. MACALLUM, B.A., PH.D. . . . . *Associate-Professor of Physiology.*  
 E. C. JEFFREY, B.A. . . . . *Lecturer on Biology.*  
 R. R. BENSLEY, B.A., M.B. . . . . *Assistant-Demonstrator in Biology.*  
 A. KIRSCHMANN, M.A., PH.D. . . . . *Lecturer on Psychology.*  
 JOS. STAFFORD, B.A., PH.D. . . . . *Fellow in Biology.*

The lectures and practical instruction in this subject are given in the University Biological Building.

The following arrangements will be in force for 1899-1900 :—

1. A course of elementary lectures on Biology will be given twice a week to prepare candidates for the University examination of the First year. For reference : Jeffrey Parker, *Biology* ; High School *Zoology* ; Atkinson, *Elementary Botany*.

2. An additional series of twenty-five lectures will be delivered to Honor Students of the First year and a course of practical lessons involving 100 hours' instruction will be given in connection with the above courses of lectures for such students. Each member of the class will be required to provide himself with a case of instruments and a watchmaker's lens, both of approved pattern.

3. Candidates for the Second year Honor examinations will attend special courses on the Zoology of the Invertebrata and the Anatomy and Classification of the Phanerogams during the Michaelmas Term. A series of lectures and demonstrations on selected topics in Physiology will be delivered during the Easter Term.

4. The practical course for Honor students of the Second year will be arranged so as to form a complement to the lectures on Animal and Vegetal Morphology, but the student is expected to have familiarized himself with certain aspects of the Canadian fauna and flora during the preceding long vacation. For reference : Parker & Haswell, *Text Book of Zoology*, Vol. I. ; Spotton's *Canadian Flora*, or Gray's *Manual* ; Vines' *Text-book of Botany*, 2 vols. ; Van Tieghem's *Traité de Botanique*, 2nd ed., revised.

5. Honor students of the Third year will study the Zoology of the Vertebrata three days a week during the Michaelmas and part of the Easter Terms, and, during the remainder of the Easter Term, Cryptogamic Botany and Vegetable Physiology. They will also be required to do some collecting work during the preceding long vacation. Books of reference : Parker & Haswell, *Text-book of Zoology*, Vol. II ; Parker & Haswell, *Text-book of Zoology*, Vol. I (McMurrich, *Invertebrate Morphology*) ; Lang, *Vergleichende Anatomie* ; Vines' *Text-book of Botany* ; A. B. Frank, *Lehrbuch der Botanik* ; Van Tieghem, *Traité de Botanique*, 2nd ed., revised.

6. The practical course for Third year students will be devoted to the study of typical forms of Vertebrate animals and Cryptogamic plants.

7. Wiedersheim-Parker's *Elements of Comparative Anatomy of the Vertebrata*, Bunge's *Physiologische Chemie*, and Foster's *Physiology*, last English



edition, are recommended for Honor students of the Fourth year, and the following works will be required in the practical course: Stöhr's Handbuch der Histologie; Parker & Haswell, Text-book of Zoology, Vol. II (Parker's Zootomy); Foster and Balfour's Embryology.

Works of reference on Bacteriology and the other subjects specified in the University curriculum will be found in the laboratory.

8. Honor students of all years are required to pay laboratory supply fees in advance to the Bursar.

### Chemistry.

W. H. PIKE, M.A., PH.D. ....	<i>Professor of Chemistry.</i>
W. L. MILLER, B.A., PH.D. ....	<i>Demonstrator.</i>
F. J. SMALE, B.A., PH.D. ....	<i>Lecturer.</i>
F. B. ALLAN, B.A. ....	<i>Assistant.</i>
F. B. KENRICK, B.A., PH.D. ....	<i>Lecture-Assistant.</i>

The following courses of lectures on Chemistry will be delivered in the Chemical Laboratory:—

**INORGANIC CHEMISTRY:** 1. *Elementary.* An introductory course on descriptive Chemistry, and on the Atomic and Molecular theories, for First year Chemistry and Mineralogy, First year Physics and Chemistry, First year Natural Science, First year Mathematics and Physics, First year Medicine, and Second year Pass. 2. *Special.* A special course on Inorganic Chemistry for First year Chemistry and Mineralogy, and Physics and Chemistry. 3. *Advanced.* A course on the relations between Chemical and other forms of Energy, for Second year Chemistry and Mineralogy, Second year Physics and Chemistry, Second year Natural Science, and Second year Mathematics and Physics.

**ORGANIC CHEMISTRY:** 1. *Introductory.* The fatty and the aromatic compounds, for the Third year Physics and Chemistry, and for the Third year Natural Science. 2. *Elementary.* A more elementary course on the fatty compounds, with a few lectures explanatory of the Benzene theory, for the Second year Medicine and Second year Chemistry and Mineralogy. 3. *Advanced.* A course on Synthetic methods, and on Stereochemistry for Third year Chemistry and Mineralogy, and Fourth year Physics and Chemistry.

**PHYSICAL CHEMISTRY:** 1. *Introductory.* Stoichiometry, Theory of Solutions, Introduction to Electrochemistry, etc., with elementary applications of the calculus to physico-chemical problems, for Second year Chemistry and Mineralogy, and Second year Physics and Chemistry. 2. *Theory of Affinity.* Velocity of reactions, the mass law, Electrochemistry, and elementary applications of thermodynamics to chemical problems, for Third year Chemistry and Mineralogy. 3. *Chemical Thermodynamics.* A general course on Energetics, with special application to chemical problems, for the Fourth year Chemistry and Mineralogy.

**HISTORY OF CHEMICAL THEORY:** For Fourth year Chemistry and Mineralogy, and Physics and Chemistry.

Special instruction will in addition be given to the students of the Departments of Chemistry and Mineralogy, and Physics and Chemistry, as occasion requires.

Each student proposing to attend lectures or practical work in the Chemical Laboratory must apply to the Demonstrator of Chemistry for a ticket which will have marked on it the number of his seat in the lecture-room, of his hat rack, of his working place in the laboratory and of his locker. This ticket will be given only to students presenting their registration tickets, and no working place in the laboratory will be allotted until a deposit of three dollars has been made. Each student will be held responsible for the seat, etc., allotted him, and no change may be made without the consent of the professor. At the close of the Easter term this ticket must be presented for certificate of attendance.

Each student is required to provide himself with a suitable note-book in which to keep an account of the work done by him during the year. These books will be examined from time to time, and marks will be assigned. The student's standing in practical Chemistry is based upon these marks, together with those assigned for the practical examinations of the term, and for written examinations on the work.

At the beginning of the term the following apparatus will be provided:—

*For Qualitative Analysis:* A key; a test tube stand; twelve test tubes; a test tube cleaner; one mortar and pestle; one evaporating dish; two watch glasses; one crucible and cover; a pair of crucible tongs; a package of filter paper; two funnels; a Bunsen burner with rubber tubing; a sandbath and tripod; a blowpipe; a wash bottle;  $H_2S$  generator; a duster. *For Quantitative Analysis:* A key; five beakers; mortar and pestle; evaporating dish; two crucibles and covers; a pair of crucible tongs; a pair of weighing glasses; package of filter paper; two funnels; a Bunsen burner with tubing; an Argand burner with tubing; an exsiccator; a stand and ring; a wash bottle; a duster.

An account will be kept with each student; all apparatus broken or destroyed and all fines will be charged against his deposit, which must be renewed when exhausted.

The apparatus provided is intended for use in the laboratory only, and may not be removed from the building. At the close of the term's work it must be returned clean and dry to the Demonstrator.

**Mineralogy and Geology.**

A. P. COLEMAN, M.A. .... *Acting Professor.*  
 W. A. PARKS, B.A. .... *Instructor.*

An elementary course in Geology is given in the Second year, and arrangements are made for the study of rocks and fossils. Lectures and laboratory work in Mineralogy, Petrology and Dynamical Geology, are provided for Honor students.

In the Third year, lectures are given in Historical and Stratigraphical Geology, Economic Geology, Mineralogy, Elementary Crystallography, Palaeontology of the Invertebrates and Palaeobotany. Practical work will be conducted in Geology, Mineralogy and Palaeontology.

In the Fourth year, lectures are given in Physiography, Geology, Palaeontology of the Vertebrates, Lithology, Meteorology and Crystallography. The practical work of the year comprises Excursions and other Geological work, Megascopic and Microscopic Lithology, Practical Crystallography, Mineral Chemistry and Assaying. It is expected that students in the Department will make a collection of minerals, rocks or fossils during the previous vacation.

*Text-books and works of reference:* Chapman's Minerals and Geology of Ontario and Quebec; Dana, Manual of Geology; Geikie, Text-book of Geology; Le Conte, Elements of Geology; Prestwich, Geology; Phillips, Ore Deposits; Kemp, Ore Deposits of the United States; Nicholson, Palaeontology; Zittel, Handbuch der Palaeontologie; Steinmann Döderlein, Elemente der Palaeontologie; Dana, Mineralogy; Naumann, Mineralogie; Tschermack, Mineralogie; Chapman, Mineral Indicator and Blowpipe Practice; Rosenbusch (and Iddings) Microscopical Physiography of Rock Making Minerals; Zirkel, Lehrbuch der Petrographie; Groth's Physikalische Krystallographie; Davis' Elementary Meteorology; Reports of the Geological Survey of Canada.

Honor students of all years are required to pay laboratory supply fees in advance to the Bursar.

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FACULTY OF MEDICINE.

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## University of Toronto.

### FACULTY OF MEDICINE.

The thirteenth session since the re-establishment of the Medical Faculty of the University of Toronto will commence on Monday, 2nd October, 1899. The opening lecture will be delivered by Professor Primrose, in the Biological Department at 8.30 p.m.

Distinct and separate courses of instruction are provided for each of the four years of the medical curriculum.

The course of instruction given by the Faculty prepares students primarily for the degree of M.B. of the University of Toronto, and for the license of the Ontario College of Physicians and Surgeons, but it fulfils the requirements of other Canadian and British Universities and it aims at giving the student such a training in the sciences as is now exacted of all those who desire to obtain any British medical qualification in addition to a Canadian one.

All the lectures and demonstrations of the First and Second years will be given in the Biological, Chemical, Physical, and Anatomical laboratories and lecture-rooms of the University.

Lectures and demonstrations in the subjects of the Third and Fourth years will be given in the building of the Medical Faculty, on the corner of Gerrard and Sackville streets, opposite the Toronto General Hospital.

The Faculty has always aimed at giving as practical a character as possible to the instruction in all the years, and has in all the arrangements for teaching medicine and surgery especially emphasized the instruction given at the bedside. As a result of this endeavour, more than two-thirds of the instruction in the Third and Fourth years is given in the wards and in the Pathological and Clinical laboratories. As

in surgery and in medicine, so in pathology, in obstetrics and in gynæcology the instruction is thoroughly practical.

Clinical instruction will, as heretofore, be given in the Toronto General Hospital, and the Mercer Eye and Ear Infirmary, the Burnside Lying-in Hospital, the Hospital for Sick Children, St. Michael's Hospital and other medical charities of Toronto. The facilities for clinical instruction have been very greatly improved, and the student has the fullest opportunities for making a thorough examination of all the cases of disease which are found in the wards and out-patient rooms of the hospitals. The students are arranged in small classes (of from twelve to fourteen) in order to facilitate this, and to enable the clinical teachers to give as much personal instruction as possible to each student.

The Faculty has in the General Hospital a laboratory for Clinical Pathology and Chemistry, which has been furnished with microscopes and all apparatus required for the examination of pathological fluids and specimens; and students, when they act as clinical clerks, will be admitted to all the privileges of the laboratory.

In the Department of Anatomy, the arrangements for instruction are now unsurpassed. In addition to other methods of illustrating Anatomy, there will be courses in which the projection microscope will be employed to demonstrate to large classes the relational structure of the different parts of the body as exhibited in frozen sections. In *Materia Medica* it is also proposed to make the course of instruction conform to the most advanced methods.

The Faculty has spared no expense in making the arrangements for medical instruction perfect, and is convinced that these, added to the unrivalled facilities offered by the University laboratories for the study of Chemistry, Physics, Biology, Anatomy, Histology and Physiology, will furnish the fullest opportunities to the student for acquiring a medical education of the most advanced and most progressive character.

Attention is directed to the recent establishment of a Museum of Hygiene.

As all laboratory work and clinical instruction commence immediately on the opening of the session, the Faculty has found it necessary to insist on an early attendance of the students in all the years.

The laboratory classes are made up in the first week of the session, and to be enrolled therein, it is in the student's interest that he should apply early.

Students intending to proceed to the Degree of M.B. in the University of Toronto will find stated in the Appendix the requirements for Matriculation. Those who are graduates in Arts of any British or Canadian University, or who are undergraduates in the Faculty of Arts or of Law in the University of Toronto or have been registered as medical students in the College of Physicians and Surgeons of Ontario are exempt from this Matriculation. A student desirous of obtaining a license to practice medicine in Ontario must pass the July Matriculation Examination of the University of Toronto, including the subjects Physics and Chemistry, which entitles him to be registered as a medical student. If, however, he does not wish to obtain the Ontario license and yet intends to proceed to the Degree of M.B., he may be registered as a matriculated medical student in the University on passing either the July or the September Matriculation Examination. He may delay presenting himself for this examination until any time before the second examination for the Degree of M.B., but, if possible, he should matriculate before commencing his medical studies.

A Fifth year of study is now demanded by the Ontario Medical Council. To meet this requirement a course of instruction will be arranged; students taking this course will have the opportunity of doing special work in the Hospitals and laboratories, and they will be permitted to attend whatever didactic lectures they may desire.

For all information not covered by this announcement, the intending student should apply to Professor A. Primrose, Biological Department, University of Toronto.

## The Faculty.

### *Professores Emeriti.*

JAMES THORBURN, M.D.                      W. W. OGDEN, M.D.  
M. H. AIKINS, B.A., M.D.                  J. H. RICHARDSON, M.D.

### *Professors, Lecturers and Demonstrators.*

Dean : R. A. REEVE, B.A., M.D., Tor.  
Secretary : A. PRIMROSE, M.B., C.M., Edin.

### ANATOMY.

*Professor, and Director of the Anatomical Department :* A. PRIMROSE, M.B.,  
C.M., Edin.

*Associate-Professor :* H. WILBERFORCE AIKINS, B.A., M.B., Tor.

*Lecturer and Demonstrator :* F. N. G. STARR, M.B., Tor.

#### \*Assistant-Demonstrators :

A. R. GORDON, M.B., Tor.  
R. D. RUDOLF, M.D., C.M., Edin.  
A. A. SMALL, M.B., Tor.  
CLARENCE L. STARR, M.B., Tor.  
K. C. McILWRAITH, M.B., Tor.  
W. J. McCOLLUM, M.B., Tor.

### SURGERY.

*Professor of Surgery and Clinical Surgery :* I. H. CAMERON, M.B., Tor.

*Associate-Professor of Surgery and Clinical Surgery :* G. A. PETERS, M.B.,  
Tor., F.R.C.S., Eng.

*Associate-Professors of Clinical Surgery :* A. PRIMROSE, M.B., C.M., Edin ;  
B. SPENCER, M.D., Tor. ; L. M. SWEETNAM, M.B., Tor. ;  
H. A. BRUCE, M.B., Tor., F.R.C.S., Eng. ; W. OLD-  
RIGHT, M.A., M.D., Tor.

### PATHOLOGY.

*Professor of Pathology and Bacteriology :* JOHN CAVEN, B.A., M.D., Tor.

*Lecturer on Bacteriology :* J. J. MacKENZIE, B.A., M.B., Tor.

\**Demonstrator :* JOHN AMYOT, M.B., Tor.

\**Assistant-Demonstrator :* JOHN STENHOUSE, M.A., B.Sc., Edin., M.B., Tor.

*Laboratory Assistant in Bacteriology :* W. GOLDIE, M.B., Tor.

### MEDICINE.

*Professor of Medicine and Clinical Medicine :* J. E. GRAHAM, M.D., Tor.,  
M.R.C.P., Lond.

*Associate-Professor of Medicine and Clinical Medicine :* A. McPHERDAN,  
M.B., Tor.

\*The Demonstrators and Assistant-Demonstrators here mentioned are those  
of the Session 1898-99. They are eligible for reappointment.



*Lecturers on Disease in Children and Clinical Medicine*: H. T. MACHELL, M.D.,  
Tor.; W. B. THISTLE, M.B., Tor.  
*Lecturers in Clinical Medicine*: R. J. DWYER, M.B., Tor.; G. BOYD, B.A.,  
M.B., Tor.

## MATERIA MEDICA AND THERAPEUTICS.

*Professor*: JAMES M. MACCALLUM, B.A., M.D., Tor.  
*Associate-Professor of Pharmacology and Therapeutics*: C. F. HEEBNER,  
Phm.B., Tor.

## GYNÆCOLOGY AND OBSTETRICS.

*Professor of Gynæcology*: UZZIEL OGDEN, M.D., Tor.  
*Professor of Obstetrics*: A. H. WRIGHT, B.A., M.D., Tor.  
*Associate-Professor of Gynæcology*: J. F. W. ROSS, M.B., Tor.

## OPHTHALMOLOGY, OTOTOLOGY, LARYNGOLOGY AND RHINOLOGY.

*Professor of Ophthalmology and Otology*: R. A. REEVE, B.A., M.D., Tor.  
*Associate-Professor of Ophthalmology and Otology*: G. H. BURNHAM, M.D.,  
Tor., F.R.C.S., Edin.  
*Associate-Professor of Laryngology and Rhinology*: G. R. McDONAGH, M.D.,  
Tor.

## HYGIENE.

*Professor*: W. OLDRIGHT, M.A., M.D., Tor.

## TOXICOLOGY.

*Associate-Professor*: W. H. ELLIS, M.A., M.B., Tor.

## MEDICAL JURISPRUDENCE.

*Associate-Professor*: BERTRAM SPENCER, M.D., Tor.  
*Lecturer*: HON. DAVID MILLS, LL.B., Q.C.

## MENTAL DISEASES.

*Extra-Mural Professor*: DANIEL CLARK, M.D., Tor.

## BIOLOGY AND PHYSIOLOGY.

*Professor of Biology*: R. RAMSAY WRIGHT, M.A., B.Sc., Edin.  
*Professor of Physiology*: A. B. MACALLUM, M.A., M.B., Tor., Ph.D., Johns  
Hopkins.  
*Assistant-Demonstrator in Biology*: R. R. BENSLEY, B.A., M.B., Tor.

## CHEMISTRY.

*Professor*: WILLIAM H. PIKE, M.A., Oxon., Ph.D., Göttingen.  
*Demonstrator*: W. L. MILLER, B.A., Tor., Ph.D., Munich.  
*Lecturer*: F. J. SMALE, B.A., Tor., Ph.D., Leipzig.  
*Lecture-Assistant*: F. B. KENRICK, B.A., Tor., Ph.D., Leipzig.

## PHYSICS.

*Professor*: JAMES LOUDON, M.A., LL.D., Tor.  
*Lecturer*: C. A. CHANT, B.A., Tor.

COURSES OF LECTURES  
AND  
METHODS OF INSTRUCTION.

WINTER SESSION, 1899—1900.

**Chemistry.**

*Professor* : W. H. PIKE.

*Demonstrator* : W. L. MILLER.

*Lecturer* : F. J. SMALE.

*Lecture-Assistant* : F. B. KENRICK.

All lectures and practical work will be given in the Chemical Laboratory. The students of the First year attend a course of lectures, delivered three times a week in the large lecture theatre, on inorganic chemistry. This course embraces an elementary study of the elements and their principal compounds, based on Mendelejeff's classification of the elements.

*Book of Reference* : V. v. Richter, Inorganic Chemistry.

The instruction given in practical chemistry includes a systematic course of laboratory work including qualitative analysis of inorganic salts, acids and bases.

The students of the Second year attend a course of lectures on elementary organic chemistry. The course, consisting of about fifty lectures in all, is based on a study of the constitutional formulæ of the various classes of organic compounds, as explaining, and deduced from, their chemical characters. It embraces the chemistry of the "fatty" compounds and an elementary study of the "aromatic" series.

The laboratory work of the Second year includes elementary volumetric analysis, with special application to clinical medicine and sanitary science, and the analysis of urine; and qualitative analysis as applied in toxicology and medicine.

Students working in the laboratory are provided with the necessary apparatus on making a deposit of three dollars\* at the

\*This is in addition to the fee of three dollars mentioned as "Chemical Laboratory Supply Fee," on page 174.

commencement of the session, which will be returned at the close of the session after the following charges have been deducted from it:—

- (1) The cost of all apparatus broken or destroyed.
- (2) Any fines, for breach of laboratory rules.

No certificate will be given for the practical work unless the student has passed the practical examinations conducted during the session.

### Physics.

*Professor* : J. LOUDON.

*Lecturer* : C. A. CHANT.

The course of lectures is intended to impart a clear and definite knowledge of the elements of physics, such as may form a satisfactory foundation for future scientific study.

It may be divided thus:

#### 1. MECHANICS :

The principles will be outlined, the object being to give accurate notions of mass, momentum, force, energy and other common terms so often met with in discussing physical processes and laws.

#### 2. HYDROSTATICS :

Pressures, specific gravity, and the general properties of liquids and gases will be taken up.

#### 3. HEAT :

Effects of heat, thermometers, expansion, specific heat and latent heat, and other ordinary phenomena.

#### 4. LIGHT :

The laws of optics will be discussed at some length. Mirrors, prisms, lenses and their combinations will be illustrated. A powerful electric lamp is used for class demonstration.

#### 5. ELECTRICITY AND MAGNETISM :

The general laws of magnetism will be demonstrated. The voltaic cell, chemical, magnetic, heating and mechanical effects of the current, together with explanations of magneto-machines, induction coils, etc., will be dealt with.

The applications of acoustics to the measurement of short intervals of time will be explained. Throughout the course special attention will be given to those principles which find most frequent application in physiology and other branches of medical science. Every lecture will be fully illustrated by experiments, the entire apparatus of the Department of Physics being available for this purpose.

### Biology and Physiology.

*Professor of Biology*: R. RAMSAY WRIGHT.

*Professor of Physiology*: A. B. MACALLUM.

*Assistant-Demonstrator in Biology*: R. R. BENSLEY.

1. Students of the First year will attend a course of lectures on general biology and elementary physiology, to be given three days a week throughout the session. This course of lectures is common to the Arts students of the First year, and is designed as an introduction to the whole range of biological studies. After a sketch of the scope and objects of these, the lectures will treat of the fundamental principles of biology, as observed in the simplest animals and plants, of the structure and functions of the human body, then, comparatively, of the vertebrates and of the rest of the animal kingdom, finally dealing with the vegetable kingdom in ascending order towards the more complex forms. Students are recommended to make use of the Biological Museum in connection with this course of lectures.

2. A practical course of fifty hours' duration, illustrating the above and serving as an introduction to the use of the microscope, will be conducted by the Assistant-Demonstrator under the supervision of the Professor of Biology.

During the Easter term there will be given a series of thirty lectures and demonstrations on special topics in physiology.

3. The students of the Second year will attend throughout the session a course of lectures and demonstrations in advanced physiology. The demonstrations, covering as wide a range of



the subject as the largely increased number and variety of the instruments at the command of the department will permit, will be specially illustrative of the points advanced in the lectures. Each student will be expected to repeat for himself, in the Laboratory, the more important demonstrations, and to facilitate this the class will be divided into groups, each of which will devote several hours a week to experimental physiology. Arrangements will also be made for holding, during the session, weekly class reviews on the subject matter of the lectures.

4. The instruction in embryology and histology will consist of twenty lectures during the Michaelmas term, and a practical course involving fifty hours' work in the laboratory. The lectures will be chiefly devoted to the development of the external form of the organs and of the tissues of the human body, but the necessary comparative data for the proper understanding of these will be supplied by reference to the embryology of the amphibia and the birds. The student may consult the large collection of models of embryology in the Museum, which are now furnished with explanatory labels designed to supplement the instruction given in the lectures. The practical course will be conducted by the Assistant-Demonstrator, and the student will have the opportunity of providing himself with a set of fifty typical specimens illustrative of embryology and histology, as well as of becoming acquainted with the methods employed in the preparation of these.

#### **The Biological Museum.**

The University Biological Museum forms the central portion of the Biological Buildings. The equipment of the Museum is now so far advanced as to permit of its being opened to the public. It is primarily intended as an educational Museum for the students taking biology as part of their University work, and is arranged in such a way as to facilitate the most elementary as well as the most advanced studies. Each specimen is furnished with a printed label indicating the most salient points which it is designed to illustrate, but it is antici-

pated that the Museum will also be of great interest to the general public, and will attract even greater numbers of visitors than the old Natural History Museum in the University Building.

The public entrance to the Museum is situated in the west façade of the Biological Buildings, while the students gain access to the rooms through the eastern wing, in which the laboratories are located. The interior of the Museum, which occupies two floors, is sub-divided into four rooms, seventy-five by twenty-five feet in size, amply lighted by handsome windows on the north and south sides. Three of these rooms are devoted to Animal Biology, while the fourth, which is to be arranged for the illustration of Vegetable Biology, is temporarily fitted up for the accommodation of the Ferrier collection of minerals.

The public entrance opens into the north ground floor room, the wall cases in which contain stuffed specimens of the various orders of Mammals, while the free-standing cases between the windows illustrate the comparative anatomy and development of that class. All the show cases are constructed of iron and plate glass, those destined for the exhibition of smaller specimens standing on wooden storage cases, built of cherry and cedar, and containing skins and other specimens for private study. The south ground floor room is devoted to the remaining vertebrate classes, the wall cases containing stuffed specimens of birds, reptiles, batrachians and fishes, and the smaller cases between the windows containing specimens illustrating the comparative anatomy and development of these classes.

A handsome staircase decorated with busts of distinguished biologists connects the ground floor and the first floor; a number of wall cases in ascending series contains a small collection of fossils from all parts of the world, as a graphic illustration of the relative position of the fossiliferous strata, and of their characteristic remains.

The south first floor room contains illustrative specimens of all the remaining branches of the animal kingdom, the arthro-

pods and molluses being exhibited in the wall cases and the table cases standing in the alcoves of these, while the protozoa, sponges, cœlenterates, echinoderms and worms are accommodated in the cases between the windows.

Although the Natural History Museum suffered considerable losses on the occasion of the University fire, these fortunately did not involve the large collection of models and specimens most useful from the educational point of view, while the generosity of public bodies and private individuals has largely repaired the losses referred to, so that the Museum will be found to constitute a most important addition to the instruction furnished in the lecture rooms and laboratories.

### Anatomy.

*Professor, and Director of the Anatomical Department:* A. PRIMROSE.

*Associate-Professor:* H. W. ATKINS.

*Lecturer and Demonstrator:* F. N. G. STARR.

*Assistant-Demonstrators:* A. R. GORDON, R. D. RUDOLF, A. A. SMALL,  
C. L. STARR, K. C. McILWRAITH, W. J. McCOLLUM.

**Lectures:**—A course of lectures will be given in the Biological Department for students of the First and Second years; in this course the structure of the human body will be described in a systematic manner; the various organs of the body will be examined with their more important relations and connections. In order that the course may be more comprehensive certain principles in general morphology and development will be elucidated. The lectures will be illustrated by recent dissections, by wet and dry preparations and by drawings and diagrams. In the class-room a projection apparatus will be employed for the purpose of throwing upon a screen an enlarged view of photographs, taken from the valuable preparations which are displayed for study in the Museum. This greatly facilitates the demonstration of anatomical structure before a large class; plates of these preparations will be distributed among the students.

Tutorial instruction will be given to limited classes for the purpose of studying osteology, and for the demonstration of the structure of the central nervous system and the special sense organs.

A course of lectures will be given at the University Medical Building, in Gerrard street, for students of the Third and Fourth years. This course will consist of a systematic study of the regional anatomy of the human body as applied in the practice of medicine and surgery. The lectures will be illustrated by suitable preparations, and a series of demonstrations of landmarks will be conducted on the living subject.

Demonstrations :—A series of demonstrations will be conducted daily for students of the Second year. In this class the main facts in gross human anatomy will be demonstrated from recent dissections.

Dissection :—The dissecting-room will be open daily from 9 a.m. until 6 p.m. on Monday, Tuesday, Wednesday, Thursday and Friday, and from 9 a.m. till 1 p.m. on Saturday. Students will be required to conduct their work in a systematic manner and to conform to the regulations in force in the dissecting-room. One or more of the Assistant-Demonstrators will be in attendance at all times for the purpose of superintending the work of the students, and of giving instruction. Examinations will be conducted from time to time on the parts dissected, and marks allotted for the work done. Certificates for work in practical anatomy are granted to such students only as have obtained the requisite number of marks in the examinations.

The dissecting-room is admirably adapted for the purposes of practical anatomy. It is large and well ventilated, and is equipped in such a manner as to afford every possible comfort and convenience to the student. Each student is provided with a locker for his private use. A notable feature of the dissecting-room is the excellent light, the room being lighted from the roof through extensive sky-lights, and when sunlight fails, electricity is employed with equally good effect.



Museum:—In connection with the dissecting-room a series of preparations have been mounted for the purpose of study. The disarticulated bones of the skeleton are included in this collection, together with frozen sections of the human body; wet preparations, illustrating regional anatomy, are also provided. A valuable and instructive series of Steger's models of frozen sections by His are exhibited in the Museum, together with a complete series of dissections of the brain and other preparations. Cunningham's series of models illustrating the topographical anatomy of the brain have recently been obtained.

Arrangements are such that a student may obtain bones from the osteological store-room, which he may take home for a limited period, if he so desire.

A pamphlet will be issued containing directions for the guidance of students of the class in anatomy, with the regulations for the dissecting-room. This should be procured by all students enrolled in the Anatomical Department.

### **Materia Medica and Therapeutics.**

*Professor of Therapeutics*: J. M. MACCALLUM.

*Associate-Professor of Pharmacology and Therapeutics*: C. F. HEEBNER.

The course in therapeutics includes: 1. General Therapeutics or the nature and actions of remedies generally. 2. The various forms in which medicines are administered, and the channels through which they are introduced into the system. 3. Special therapeutics, of the more important medicines of the British Pharmacopœia, and of recent important but non-official medicinal substances.

There will also be dealt with such subjects as electricity in its application to disease, heat, cold, climate, massage, hydrotherapy.

Clinical Therapeutics:—Cases in the wards of the General Hospital and of the Hospital for Sick Children will be used to illustrate important points in special and general therapeutics.

The following subjects will be considered in the course on materia medica and elementary therapeutics:—

1. The exhibition of drugs. This subject will be discussed as to forms of drugs, and as to mode of administration.

2. Therapeutic terms and definitions, with such explanations as may be necessary to make their use in the subsequent lectures understood.

3. General pharmaceutical operations, as solution, maceration, digestion, percolation, etc., the preparation of ointments, extracts, infusions, etc., the comparative values of the various solvents, menstrua and bases, and the effect upon drugs of the different pharmaceutical methods used.

4. The general principles of posology, and modifying influences.

5. The art of prescribing. Instruction in this subject will be with a view to indicate the means of ensuring that mixtures may be therapeutically effective, free from incompatibility and pleasing to the eye and taste.

6. Crude drugs. Their nomenclature, source, physical and chemical characters, active principles, medicinal properties, dose, impurities and adulterations, toxicological action, if any.

(a) Inorganic drugs.

(b) The carbon compounds.

(c) Plant drugs.

(d) Animal drugs.

7. Prepared Drugs. The official and important official preparations will be considered individually as to their strength, method of preparation, dose, etc.

The collection of specimens of crude and prepared drugs is complete in every respect. These specimens will be handed to the students for inspection, at each lecture, and then returned to the glass cases in the Reading Room, where they may be further inspected. Provision will be made whereby all students of the class may secure a complete set of specimens, at a moderate cost, for home study.

**Medicine.**

*Professor of Medicine and Clinical Medicine*: J. E. GRAHAM.

*Associate-Professor of Medicine and Clinical Medicine*: A. MCPHEDRAN.

*Lecturers on Disease in Children and Clinical Medicine*: H. T. MACHELL,

W. B. THISTLE.

*Lecturers in Clinical Medicine*: R. J. DWYER, G. BOYD.

The aim of the course will be the discussion of Internal Medicine in its more general aspects so as to lay a broad basis for giving an insight into general medical science. The general principles of the various subjects treated of will be considered, tracing the relationship existing between etiology, morbid changes and symptomatology, and deducing therefrom the course of treatment that should be pursued; and the more important diseases will be exhaustively dealt with. As far as possible, the course will be made to conform to that of the Clinical Department so that students may be able to apply the general principles discussed to the particular cases under observation.

The lectures will be illustrated by diagrams, hand-coloured drawings, photographs, etc., and by preparations of morbid anatomy.

**Clinical Medicine.**

As it is only by being brought into direct contact with patients that the student can gain a thorough knowledge of disease in its varying aspects, it is to the Clinical Department that he must devote the greater part of his time and energy in order to become proficient in the subject. Ample opportunities will be afforded him in the large out-patient and in-door services of the Toronto General and St. Michael's Hospitals for the study of disease in the adult. The Hospital for Sick Children affords a varied field in children's diseases.

While as great a variety of cases as possible will be presented for examination, more importance will be attached to thoroughness in the study of cases than to the number observed.

In addition to the out-patient clinics and regular weekly lectures, students of the Third and Fourth years will be

taken in classes into the wards daily for instruction at the bedside, and each student required, in presence of the class, to take part in the examination of patients, to interpret the significance of the symptoms presented, and detail the treatment indicated. They will be instructed in the use of instruments of precision, such as the thermometer, sphygmograph, ophthalmoscope, hæmometer, hæmocytometer, etc.

Students will act as clinical clerks, and will be required to take accurate and complete histories of the cases assigned to them; these histories will be criticised from time to time before the class and value assigned for the work done. By a recent enactment of the Senate of the University of Toronto, a record is made of this and other clinical work done by the student during the session and reported to the Senate at the end of the session; this report is accepted in lieu of a clinical examination, as it is considered a much more accurate gauge of the student's attainments than can be obtained by any examination however thorough.

Small classes will be formed of the students of the Third year for the study of the methods of examination and the significance of symptoms, the utmost care being taken to develop accuracy of observation and of interpretation.

#### **Disease in Children.**

A special course of instruction in Disease in Children, will be conducted by the lecturers appointed to that special department. These lecturers will be assisted in the clinical work by other members of the Faculty, who are on the staff of the Hospital for Sick Children.

#### **Clinical Laboratory Instruction.**

The Assistant in Pathology will give daily demonstrations in the Hospital Clinical Laboratory in the microscopical, chemical and bacteriological examination of blood, urine, sputum, stomach contents, etc.

Each clinical clerk will be required to make all such examinations in connection with the cases under his charge, and



enter the result in his clinical records. The value of this work will be taken into account in estimating his standing in clinical medicine at the end of the session.

*Text Books recommended* : Osler, Strümpell, Musser, Gibson and Russell.

*For reference* : Fagge's Principles and Practice of Medicine (latest edition), and Hirt on Diseases of the Nervous System.

### Surgery.

*Professor of Surgery and Clinical Surgery* : I. H. CAMERON.

*Associate-Professor of Surgery and Clinical Surgery* : G. A. PETERS.

*Associate-Professors of Clinical Surgery* : A. PRIMROSE, B. SPENCER

L. M. SWEETNAM, H. A. BRUCE, W. OLDRIGHT.

This course of lectures comprehends:—

1. The general principles of surgery, as based upon what is known of: (a) The natural history of diseases of a surgical character as they affect the human frame, as, for example, abscess, ulceration, mortification, tumours, etc.; (b) The processes of repair and regeneration taking place in tissues, which have been diseased, such as the healing of wounds, the expulsion of foreign bodies, as bullets, dead bone, etc.; and (c) The part played in these processes by minute vegetable organisms, involving a consideration of the germ theory of disease.

2. Surgical Injuries.

(a) Of tissues, as fractures, dislocations, and injuries to nerves, blood vessels, etc.

(b) Of organs contained in the so-called cavities of the body, the brain, lungs and abdominal viscera.

3. Surgical diseases, as aneurism, varicose veins, calculus in the kidney or bladder, hernia, tuberculous diseases of joints, bones, testicles, etc., pyæmia, erysipelas, etc.

4. The correction of malformations, deformities and defects, as club-foot, spinal curvatures, hare-lip, cleft-palate and other conditions usually classified under the headings of orthopædic and plastic surgery.

This course will be illustrated by plates and drawings, by specimens from the Museum and fresh specimens from the operating and post-mortem rooms, and by especial reference to clinical cases falling under the immediate observation of the students in the wards of the Hospitals.

#### Clinical Surgery.

In teaching clinical surgery, an effort is made to give as much personal instruction to each student as possible, and whenever it is practicable he is permitted to make a careful examination of the patients brought before the class. In order to facilitate this the classes are made small, and are graded to some extent according to the degree of advancement of the students in their studies, for the purpose of confining the studies of the senior students to subjects of a more advanced character than those treated of in lectures for the junior students. Whenever it is practicable, dressings are done and apparatus applied in the presence of the classes. Each step of the proceeding is explained by the surgeon in charge, and the clinical clerks and dressers participate in the actual work in connection with the case.

During his course, each student has an opportunity of acting as clinical clerk and dresser, thus being afforded facilities for coming into that immediate contact with the patient which is so important from the point of view of practice, and which lends such an amount of additional interest to the cases in his charge.

The material available for the instruction of students is very abundant, consisting of out-door and in-door patients in the Toronto General Hospital, St. Michael's Hospital, and also of out-door and in-door patients in the Hospital for Sick Children. In the last named institution may be found cases, in great numbers and varieties, illustrating all the diseases, deformities and defects, such as club-foot, hare-lip, hip-joint disease, Pott's disease, and other conditions met with most frequently in young children.

**Pathology.**

*Professor of Pathology and Bacteriology: J. CAVEN.*

*Lecturer on Bacteriology: J. J. MACKENZIE.*

*Demonstrator: J. AMYOT.*

*Assistant-Demonstrator: J. STENHOUSE.*

*Laboratory Assistant in Bacteriology: W. GOLDIE.*

The course will embrace lectures on general and special pathology, together with demonstrations in both gross morbid anatomy and pathological histology. The lectures to the Third year will be mainly upon general pathology, and those to the Fourth year upon special pathology. Post-mortem examinations are performed by the Professor of Pathology or the Demonstrator at the General Hospital, and the students of the Fourth year will be expected to take part in these. Gross demonstrations in addition to those in the Hospital Mortuary are given in the College class-rooms every week, and will be so arranged that Students of both Third and Fourth years may take advantage of them. The University having equipped a pathological laboratory in the school building, and a clinical laboratory in the General Hospital, every facility for microscopical work in tissues and fluids is afforded. At least seventy-five slides of morbid tissues are mounted by each senior student, and four hours of demonstration in microscopical work per week given in each year. Clinical clerks receive regular instruction in the analysis of urine, examination of blood, sputum, etc., in the Hospital Clinical Laboratory.

In Bacteriology, a course of lectures will be given, and every student will be required to work in the Bacteriological Laboratory for one month. The Assistant in Bacteriology will give all needed assistance to clinical clerks who may have to undertake bacteriological work in connection with cases under their charge in the Hospital.

## Hygiene.

*Professor* : W. OLDRIGHT.

The student is recommended to obtain from one of the works mentioned in the list of text books an elementary knowledge of the subject of each next succeeding lecture. The information thus obtained will be supplemented in the lectures, and fuller consideration will be given to those points which require special attention on account of differences of climate, population, occupations, social and political organization, and other circumstances in Canada. Students will also be guided in regard to sources of information and current literature relating to health work in this country.

In addition to the theoretical teaching, practical demonstrations will be given by means of various instruments. The following subjects will be embraced in the course : air, impurities and their effects, ventilation and heating ; hygienic architecture ; climatology ; sewerage and disposal of refuse ; water supplies ; foods, dietaries, adulterations ; occupations ; exercise and overwork ; clothing ; baths ; contagion and infection ; management of epidemics, quarantine ; duties and functions of medical health officers and boards of health ; vital statistics ; sanitary legislation—federal, provincial and municipal.

### Museum of Hygiene.

In the Museum of Hygiene will be found apparatus and samples for teaching and illustrating the various branches of Hygiene, and exhibits contributed by manufacturers and other persons interested in the subject.

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## Toxicology.

*Associate-Professor* : W. H. ELLIS.

A series of lectures and demonstrations on toxicology is given under the following heads :—

### THE NATURE OF POISONS.

Their properties, physical, chemical and physiological.



## THE OCCURRENCE OF POISONS.

In nature, in the arts, and in common life. Danger from poisoning incidental to particular callings. Genesis of poisons in the dead and in the living body.

## ANTIDOTES TO POISONS.

## THE DETECTION OF POISONS.

Identification of poisons in the pure state. Separation from organic matter.

Post-mortem examinations for poisons.

**Medical Jurisprudence.**

*Associate-Professor* : B. SPENCER.

*Legal Lecturer* : HON. DAVID MILLS.

The course will embrace the discussion of the following subjects in their medico-legal aspects :—

Reports and written opinions ; expert evidence ; Coroner's Law.

The identity of the person—living and dead.

Death ; its causes, signs, and period of occurrence. Apparent death ; autopsy ; exhumation.

Injuries to the person,—in connection with which will be considered wounds and other external injuries ; blood-stains ; suffocation, hanging and strangling ; drowning and starvation.

Poisoning : its clinical symptoms and pathological appearances.

Offences against chastity, including rape, criminal abortion and infanticide.

Live birth, legitimacy, congenital defects and feigned diseases.

Suicide.

Medical ethics.

**Mental Diseases.**

*Extra-Mural Professor* : D. CLARK.

The course of lectures will be chiefly clinical, and given at the Asylum. The subjects discussed will be of a practical nature as far as possible, and may be classified as follows :—

- 1st. Definitions and errors arising therefrom in the study of insanity.
- 2nd. The brain and its exceptional construction and functions.
- 3rd. The brain as an organ of the mind.
- 4th. Sanity and insanity in their relation to one another.
- 5th. Different forms of insanity, illustrated by patients.
- 6th. The moral treatment of the insane.
- 7th. The medical treatment of the insane in the various forms of their diseases.

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**Gynæcology and Obstetrics.**

*Professor of Gynæcology* : U. OGDEN.

*Professor of Obstetrics* : A. H. WRIGHT.

*Associate-Professor of Gynæcology* : J. F. W. ROSS.

As such very ample means are now furnished in other departments for the study of the anatomy, physiology and pathology of the parts concerned, the Professor of Gynæcology will devote his time altogether to the various methods of examination and diagnosis; the use and application of instruments; and the symptoms, diagnosis and treatment of diseases peculiar to women.

The disorders of menstruation, leucorrhœa, chlorosis, metritis in its various forms, tumors, displacements and diseases of the uterus and ovaries, lacerations of the cervix uteri and perineum, and abdominal surgery will be treated of and illustrated by large plates, casts and morbid specimens in the didactic course, while operative gynæcology will be fully demonstrated by the Professors in their clinics in the Toronto General Hospital.

There will be two separate courses in obstetrics; one for the students of the Third year in physiological obstetrics, and the other for students of the Fourth year in pathological obstetrics.

The Third year course in physiological obstetrics will include the following: anatomy and physiology of the female organs of reproduction; physiology and pregnancy; physiology, mechanism, and management of labor; management of the puerperal state; management of the infant.

The Fourth year course on pathological obstetrics will include: diseases of pregnancy, abortion and premature labor, dystocia, accidents before and after delivery, obstetrical operations, puerperal diseases, including septicæmia.

Practical demonstrations will be given on the phantom or cadaver, and diagrams, specimens, models, etc., will be used in illustrating the various subjects treated of in the two courses.

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### Ophthalmology, Otology, Laryngology and Rhinology.

*Professor of Ophthalmology and Otology*: R. A. REEVE.

*Associate-Professor of Ophthalmology and Otology*: G. H. BURNHAM.

*Associate-Professor of Laryngology and Rhinology*: G. R. McDONAGH.

In addition to a short course of didactic lectures on Diseases of the Eye and Ear at the College, practical instruction will be given four times in the week at the clinics in the Provincial (Mercer) Eye and Ear Infirmary, Toronto General Hospital.

In the department of Laryngology and Rhinology, a course of practical lectures on the commoner forms of disease of the Throat and Nose will be given, and in the General Hospital opportunities for examining patients will be presented twice a week.

**The Toronto General Hospital.**

The following members of the Faculty are members of the staff of the General Hospital:—

*Consulting.*

PROF. J. H. RICHARDSON, M.D.                      PROF. J. THORBURN, M.D.

*Physicians.*

PROF. J. E. GRAHAM, M.D.                      PROF. A. MCPHEDRAN, M.B.

*Surgeons.*

PROF. I. H. CAMERON, M.B.                      PROF. G. A. PETERS, M.B.

*Emergency Branch.*

*Surgeons.*

PROF. A. PRIMROSE, M.B.  
" BERTRAM SPENCER, M.D.

*Physicians.*

PROF. J. M. MACCALLUM, M.D.  
W. B. THISTLE, M.B.

*Out-door.*

*Surgeons.*

F. N. G. STARR, M.B.  
PROF. H. A. BRUCE, M.B.

*Physicians.*

A. R. GORDON, M.B.  
R. D. RUDOLF, M.D.

*Gynæcology and Obstetrics.*

PROF. U. OGDEN, M.D.                      PROF. A. H. WRIGHT, M.D.  
PROF. J. F. W. ROSS, M.B.

*Assistant in Gynæcology.*

PROF. L. M. SWEETNAM, M.B.

*Pathology.*

PROF. JOHN CAVEN, M.D.                      J. AMYOT, M.B.

*Ophthalmology and Otology.*

PROF. R. A. REEVE, M.D.                      PROF. G. H. BURNHAM, M.D.

*Rhinology and Laryngology.*

PROF. G. R. McDONAGH, M.D.

*Assistant in Rhinology and Laryngology.*

G. BOYD, M.B.

*Registrars.*

K. C. McILWRAITH, M.B.                      CLARENCE L. STARR, M.B.  
A. A. SMALL, M.B.                              R. J. DWYER, M.B.



The Hospital has now over 400 beds, and during the year the number of in-patients under treatment has varied from 250 to 300. During last year about 3,300 patients were admitted, and 16,000 patients received treatment in the out-door department.

All the patients in the Hospital are, as a rule, suffering from acute medical or surgical disease; the chronic cases are generally sent to the Home for Incurables or House of Providence, and the convalescent patients are sent to the new Convalescent Home, recently erected on Wells's Hill.

#### Clinical Teaching.

Clinical instruction is given in the various departments of the Hospital on all classes of patients.

I. *Theatre Lectures* :—Clinical Lectures are given daily, on patients brought from the wards to the large theatre, by the professors of clinical medicine and of clinical surgery to the students of the Third and Fourth years.

#### II. *Instruction in the Wards* :

(a) *Medicine and Surgery* :—A systematic course of bedside instruction is given to limited classes of students. Arrangements are such that each physician and surgeon or his assistant is in daily attendance for the purpose of imparting instruction at the bedside. By this means provision is made for continuous daily work in the ward, and students of both Third and Fourth years are required to avail themselves of it.

(b) *Gynæcology* :—Small classes of students receive instruction in diseases peculiar to women in the pavilion specially devoted to the treatment of such patients. These classes meet twice a week. Increased facilities have recently been provided for an out-door gynæcological clinic.

(c) *Obstetrics* :—In the Burnside Lying-in-Hospital, in which there are over 200 births a year, final students are permitted to witness and assist in the conduct of *labours*. Students are also allowed to make engagements with out-patients and to attend them in confinements at their own homes.

(d) Ophthalmology, Otology, Laryngology and Rhinology :— Diseases of the eye, ear, throat, and nose are studied in the wards of the Andrew Mercer Infirmary.

III. *Surgical Operations* :—Surgical operations are performed in the large theatre on Tuesday and Friday afternoons, or in cases of emergency at any time during the day or night when required. The theatre, which has recently been altered and enlarged, is capable of seating 600 students, and in the completeness of its arrangements is not excelled. The facilities afforded the students situated in all parts of the room for witnessing operations in all their details are unusually good.

IV. *Out-patient Clinics* :—The new addition to the Hospital for the accommodation of out-patients affords ample facilities for instruction in the important class of diseases which here pass under observation. A physician and a surgeon are in attendance daily, and instruction is given on the patients. The cases presenting themselves in the special departments of the Hospital devoted to diseases of the eye, ear, etc., are available in the same manner. There will also be an out-door clinic in gynaecology.

V. *Pathology* :

(a) Autopsies :—These are performed at stated hours by the Professor, or the Demonstrator of Pathology. The examinations are conducted in a systematic way, and instruction on the morbid conditions found is imparted to the students. The bearings of the gross post-mortem appearances on the conditions previously found at the bedside are carefully investigated, and, when necessary, arrangements are made for further examination, microscopical and chemical. There are about 200 autopsies during the year. Recently the theatre in which autopsies are made has been completely remodelled and every facility is provided for conducting the examinations. The light is excellent and the room is capable of accommodating 150 students.

(b) The examination and analysis of the various fluids, excreta and pathological products of patients in the wards, are

conducted in the University Hospital laboratory. Students are required to keep systematic records of the results obtained by these examinations.

#### **Clinical Clerks and Surgical Dressers.**

Clinical clerks and surgical dressers are appointed to act for limited periods. They are required to take complete histories of cases allotted to them, and to receive certificates for the same, as required by the Ontario Medical Council. Post-mortem clerks are appointed, and are required to make complete reports of all autopsies made in the post-mortem room, which is situated in the Hospital grounds. Clinical clerks and surgical dressers are also appointed in the departments of gynaecology, ophthalmology, and otology.

#### **Resident Assistants in the Hospital.**

Five resident assistants are appointed annually from the graduates in medicine of the University, and hold their positions for one year. They will have full opportunities for acquiring experience in the general and special wards of the Hospital, and during the session they will have charge under the physicians and surgeons in the general wards.

For the current year they are:—Meesrs. H. W. Spence, M.B.; A. D. Stewart, M.B.; A. A. Shepard, M.B.; F. Turnbull, M.B., and M. B. Dean, M.B.

#### **Hospital for Sick Children.**

The following members of the Faculty are members of the Hospital staff:—

PROF. U. OGDEN, M.D.  
PROF. J. E. GRAHAM, M.D.

#### *Consulting.*

PROF. J. THORBURN, M.D.  
PROF. J. F. W. ROSS.

PROF. A. MCPHEDRAN, M.B.

#### *Physicians.*

W. B. THISTLE, M.D.  
H. T. MACHELL, M.B.

*Surgeons.*

PROF. I. H. CAMERON, M.B.  
 PROF. A. PRIMROSE, M.B.

PROF. G. A. PETERS, M.B.  
 CLARENCE L. STARR, M.B.

*Ophthalmology and Otology.*

PROF. R. A. REEVE, M.D.

PROF. J. M. MACCALLUM, M.D.

*Rhinology and Laryngology.*

PROF. G. R. McDONAGH, M.D.

*Pathology.*

PROF. J. CAVEN, M.D.

*Bacteriologist.*

J. J. MACKENZIE, B.A., M.B.

*Out-door and Assistant.*

F. N. G. STARR, M.B.

B. SPENCER, M.D.

G. BOYD, M.B.

*Registrar.*

This large Hospital, with 160 beds, is entirely devoted to disease in children. In the clinics, cases exemplifying the various diseases in infancy and childhood will be exhibited. Abundant opportunities for a personal examination of all cases will be afforded.

A resident assistant is appointed annually from the graduates in medicine of the University, and holds his position for the year. The opportunity thus offered for obtaining a practical knowledge of this very important department of medical practice is unsurpassed.

**St. Michael's Hospital.**

This institution is conducted as a General Hospital; where medical, surgical and obstetrical cases are admitted. The number of patients admitted last year was about 1,500. The accommodation has recently been enlarged by the addition of a new wing, so that there are now 160 beds. An operating



theatre has been provided, constructed with all the necessary modern equipment for the practice of antiseptic surgery.

Clinical instruction is given in this Hospital by those members of the staff who are also on the teaching staff of the University of Toronto. Opportunity is also provided for the study of Pathology. Post mortem examinations are conducted systematically, so that students may avail themselves of the material in this department. Clinical clerks and surgical dressers are appointed from the students in attendance at the Hospital.

A resident assistant is appointed annually from the graduates in medicine of the University of Toronto.

The following members of the Faculty are members of the staff of St. Michael's Hospital :—

*Physicians :*

PROF. J. E. GRAHAM, M.D.

PROF. A. McPHERAN, M.D.

R. J. DWYER, M.B.

*Surgeons :*

PROF. I. H. CAMERON, M.B.

PROF. W. OLDRIGHT, M.D.

PROF. A. PRIMROSE, M.B.

PROF. L. M. SWEETNAM, M.B.

J. AMOYT, M.B.

*Gynaecologist :*

PROF. J. F. W. ROSS, M.B.

*Assistant Surgeon :*

PROF. H. A. BRUCE, M.B.

**Text Books.**

*Anatomy*—Gray, \$6 ; Quain ; Morris, \$6 ; Cunningham's Practical Anatomy, 2 vols., \$7 ; Ellis's Demonstrations of Anatomy, edited by Thane, \$3.75 ; Brodie's Atlas of Dissections, Illustrated, 4 vols., \$9.50 ; Anatomy and Physiology of the Nervous System, L. F. Barker, \$5.

*Physiology*—Foster, 4 vols., \$9, New American edition, 1 vol., \$5 ; McKendrick, 2 vols., \$10 ; Howell, American Text Book of Physiology, \$7 ; Landois & Stirling, \$7 ; Waller, \$4 ; Stewart, \$3.50 ; Brodie, Essentials of Experimental Physiology, \$ ; Text Book of Physiology, edited by E. A. Schafer.

- Histology*—Schäfer Practical Histology, \$2; Stohr's Text Book, translated and edited by Schaper, \$3; Piersol, \$3.50.
- Chemistry*—Remsen (inorganic), \$1.35; (organic), \$1.50. *Book of Reference*—Richter, Inorganic Chemistry, \$1.75.
- Pharmacology and Therapeutics*—Hare's Practical Therapeutics, \$3.75; Yeo's Clinical Therapeutics, 2 vols., \$5.50; Bruce, \$1.50; Hale White, \$2.50; Farquharson, \$2.50; Brunton, \$5.50; Heebner's Synopsis of B. P. Preparations, \$1.
- Surgery*—Erichsen, 2 vols., \$12; Moullin, \$6; Walsham, \$3.35; Treves' System, 2 vols., \$12; Treves' Surgical Operations, \$2; American Text Book of Surgery, \$8; Jacobson, the Operations of Surgery, \$9; Zackerkandl's Atlas of Operative Surgery, \$; Wharton's Bandaging and Minor Surgery, \$3; Kocher's Operative Surgery, translated by Stiles, \$3.50; Surgery, by American Authors, Roswell Park, \$9; White & Martin, on Genito-Urinary Diseases, \$6.50; Surgical Diagnosis and Treatment, Macdonald; Traumatic Injuries of the Brain, Phelps, \$5; Fractures and Dislocations, Stimson, \$.
- Medicine*—Osler, \$5.50; Wood and Fitz, \$6; Fagge, 2 vols., \$12; Strümpell, \$6; Hirt, on the Nervous System, \$5; Allbutt's System, 6 vols., \$33; Loomis' System, 4 vols., \$20; Tyson, \$5.50; Gowers, on Nervous System, \$7; Mills, on Nervous System, \$6; Fowler & Godlee, Diseases of the Lungs, \$6; Dictionary of Treatment, Whithall, \$.
- Clinical Medicine*—Gibson & Russell, \$2.50; Finlayson, \$2.50; Vierordt, \$4; Musser, \$5; Da Costa, \$6; Clinical Diagnosis, Simon, \$; Diagnosis, H. A. Hare, \$.
- Midwifery*—Playfair, \$4; Galabin, \$4; Lusk, \$5; An American Text Book, edited by Norris, \$8.
- Gynecology*—Thomas & Mundé, \$5; Galabin, \$2.50; Garrigues, \$4; Hart & Barbour, \$5; Pozzi, 2 vols., \$12; Allbutt & Playfair, a System of Gynecology, \$6; Hermann, \$6; Kelly, Oper. Gynaecol., 2 vols., \$15; Cancer of the Uterus, Cullen.
- Disease in Children*—Ashby & Wright, \$5; Goodhart, \$3; Eustace Smith, \$5; Holt, \$7; Jacobi, \$3; Rotch, \$6.50.
- Pathology*—Ziegler, \$4; Paynè, \$3.50; Green, \$2.75; Coates, \$9; Hamilton, 2 vols., \$10; Thoma, Surgical Pathology, J. Jackson Clarke; Bacteriology, Abbott; Stengel, \$4.
- Medical Jurisprudence*—Taylor, \$4.50; Reese, \$3; McLane Hamilton, \$13; Witthaus & Becker, \$20.
- Hygiene*—Louis C. Parkes, \$2.50; DeChaumont's Parkes, \$5; Normal School Manual, 50 cents; Stevenson & Murphy, \$17; Wilson, \$3; Richardson's "Field of Disease," \$4.

*Dermatology*—Jackson, \$2.75; Crocker, \$4.50; Robinson, \$5; American Text Book of Dermatology, \$8; Jamieson, \$6.

*Biology*—Parker, \$2.60; Huxley, \$2.60.

*Physics*—Gage's Principles of Physics, \$1.25; Daniell's Physics for Medical Students, \$1.25.

*Ophthalmology*—Nettleship, \$2; Swanzy, \$3; Juler, \$5.50; de Schweinitz, \$4; Carter & Frost, \$2.25.

*Otology*—Pritchard's, \$1.50; Field, \$3.75; Buck, \$2.50; Roosa, \$5.50; Bacon's Manual of Otology, \$ .

*Mental Diseases*—Clarke, \$1.25; Savage, \$2; Accident and Injury, Bailey, \$5.

*Laryngology*—Seiler, \$2; Williams, \$2.50; Lennox Brown, \$6.50; Bosworth, 2 vols., \$5.50.

### Fees.

Registration (payable once only) .....	\$ 5 00
The tuition fees for the first year amount to .....	100 00
The tuition fees for the second year amount to .....	100 00
The tuition fees for the third year amount to .....	100 00
The tuition fees for the fourth year amount to .....	100 00
Biological laboratory supply fee in first year .....	1 50
Biological laboratory supply fee in second year .....	2 75
Chemical laboratory supply fee in first and second years .....	3 00

The annual fee for instruction in medicine in each of the four years is \$100 if paid on or before November 1st of the session, or \$105 if paid in instalments. The first instalment of \$55 must be paid on or before November 1st, and the second instalment of \$50 on or before February 1st.

Students receiving instruction during the Fifth year are required to pay a fee of \$50. On the payment of this fee the student shall be permitted to attend all clinics and whatever didactic lectures he may desire: he shall also be permitted to take laboratory work on the payment of the laboratory fees.

But no student shall be admitted to any of the University laboratories or lecture-rooms until all the fees which may be due by him, for the session or term, have been paid.

Students who registered in the Faculty of Medicine before the year 1897 will be permitted to receive instruction in the University of Toronto on payment of the fees stipulated in the Calendar for the session 1896-97.

Students in the Fourth year will be required, in addition, to pay a fee of \$5 for the extra-mural class in Medical Psychology.

Fees connected with examinations and the granting of Degrees—

For Matriculation or Registration of Matriculation .....	\$ 5 00
For Annual Examinations (each) .....	10 00
For Examination in Practical Chemistry .....	0 50
For Admission <i>ad eundem statum</i> .....	10 00
For the Degree of M.B. ....	20 00
For the Degree of M.D. ....	20 00
For Admission <i>ad eundem gradum</i> .....	20 00

The fee for examination and, in the case of candidates of the Fourth year, that for the degree, must be paid to the Bursar not later than April 15th.

Tickets of admission to any of the courses of lectures or practical instruction will be issued by the Registrar of the University on payment of the fees, and the attendance of the students at such courses must be certified on the backs of the tickets by the professors, lecturers, demonstrators or instructors, before such tickets will be received by the Registrar as entitling the possessors to proceed to examination.

Matriculated students or graduates in the Faculty of Arts, who have attended during the Arts course any course of lectures or of practical instruction of the character and duration required by the curriculum in medicine, may obtain certified tickets for the same from the Registrar of the University on payment of the ordinary fee demanded from students in medicine.

Matriculated students or graduates in Arts in the department of Natural Sciences who are taking or have taken the Honour course in any subject in the Faculty of Arts which is or shall be held by the Senate equivalent to any of the subjects prescribed in the medical curriculum, may be permitted to take Practical Anatomy, on the payment of a fee of \$40;



Anatomy, a course of lectures, \$20; Materia Medica, a course of lectures, \$15. Such students may also be permitted to present themselves for examination at the end of the session, provided they have duly registered as students in the Faculty of Medicine and possess the certificates required for the examination, as detailed in this Calendar.

Matriculated students or graduates in Arts in the department of Natural Sciences who have taken honours in any examination in the Faculty of Arts which is or shall be held by the Senate equivalent to any of the examinations prescribed in the medical curriculum, may obtain tickets for such qualifying classes attended by them without the payment of the corresponding fees.

Certificates of attendance on such lectures or demonstrations will only be given on the presentation of such tickets.

The Hospital fees—payable to the Hospital authorities—are as follows:—

Perpetual ticket .....	\$34 00
Annual ticket .....	14 00
Burnside Lying-in Hospital ..	8 00

### Undergraduate Scholarships.

The following scholarships are annually offered for competition amongst students who attend the Lectures of the University Medical Faculty:—

At First examination .....	one of \$50
“ .....	one of \$30
At Second examination .....	one of \$50
“ .....	one of \$30

Every student taking a scholarship is required to sign a declaration that it is his intention to pursue his medical studies for two or three years, according to the year in which he has taken such scholarship, and to proceed to a degree in the University of Toronto, and that he is not an undergraduate or graduate in the Faculty of Medicine of any other University.

No scholarship will be awarded to any candidate who has not obtained honors in the examination for which it is conferred.

Each scholarship is tenable for one year only, but a scholar of one year is eligible for the scholarship of a succeeding year.

The scholarships or medals are not open to those who are at the same time undergraduates or graduates in Medicine of another University.

No undergraduate in the Honor course, who shall have degraded into a lower year, shall be permitted at any ensuing examination to compete for medals or scholarships, except by special permission of the Faculty, to be granted only in case of illness or for other grave reasons.

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#### **Medals, Prizes, and Certificates of Honor.**

A gold medal and three silver medals are offered annually for competition among those students of the Medical Faculty who are honor candidates for the degree of M.B., and will be awarded on the recommendation of the Examiners.

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#### **Examinations in the Third Year.**

Examinations (chiefly clinical) will be conducted by the Medical Faculty, at the end of the Third year, in Medicine, Surgery, and Obstetrics.

**Time Table, Session 1899-1900.**  
First Year.

	MON.	TUE.	WED.	THU.	FRI.	SAT.
Elementary Biology and Physiology	9	8.30-11	9		9	
Practical Biology		1-5	10	8.30-11	11	
Practical Chemistry					10	
Anatomy	10	11	11	11	12	
Chemistry	12		12	2	2	
Physics	2			3-6	3-6	9-12
Materia Medica	3-6	1-6	1-6			
Practical Anatomy	12		12		12	
Physiological Lectures and Demonstrations.						
<b>Second Year.</b>						
	MON.	TUE.	WED.	THU.	FRI.	SAT.
Histology.	9	11	9	11	11	
(During October only).						
Embryology.		9	9	9	10	
(During November and December).						
Physiology.		10	11	10	10	
(a) During October		10-12	11	10-12	11	
(b) During remainder of session.						
Anatomy.		9		9	9	9
(a) During October						
(b) During November and December.		9		9	9	9
(c) During remainder of session.				9	9	9
Practical Histology.						
(a) During October	10-12					
(b) During remainder of session.	9-11				12	
Chemistry.	12					
Practical Chemistry	2		1-5	2	2	
Materia Medica.	3-6	1-6	1-6	3-6	3-6	10-12
Practical Anatomy.						
<b>Third Year.</b>						
	MON.	TUE.	WED.	THU.	FRI.	SAT.
Surgery	8.30		8.30			
Medicine	9.30		9.30			
Obstetrics.		9.30		9.30	9.30	9.30
Pathology.	10.30-11.30		11.30-12.30			
Therapeutics		8.30		8.30		
Pathological Demonstrations.		10.30-11.30				10.30-12.30
Medical Jurisprudence.		10.30			10.30	
Minor Surgery					8.30	
Tutorial Class in Medicine		9.30			9.30	
Disease in Children.				10.30		

} Monday lecture during  
} Mich. Term only.  
} Mich. Term.  
} Easter Term.

{ Tues. and Thurs. lectures  
} in Mich. Term only.  
} Fri. and Sat. lectures in  
} Easter Term only.

{ Tues. lecture during Easter  
} Term only.  
} Fri. lecture during Mich.  
} Term only.

**Fourth Year.**  
MON. TUE. WED. THU. FRI. SAT.





**The University of Toronto Medical Society.**

This Society consists of the graduates and undergraduates enrolled in the Faculty of Medicine of the University of Toronto. It is under the patronage of the members of the Medical Faculty and its object is to deal with all matters pertaining to the general interest and welfare of the students, especially :

(a) To encourage interest in general medical science and literature, and in the pursuit of medical studies.

(b) To provide a supply of periodicals and magazines for the reading rooms.

(c) To be a means of communication between the Student body and the Faculty or any other body, when such communication is desirable.

**OFFICERS OF THE SOCIETY.**

*Honorary President*—R. A. REEVE, B.A., M.D., Dean of the Faculty.

*President*—P. L. SCOTT.

*Vice-President*—J. A. CAMPBELL.

*Corresponding Secretary*—W. F. MCKAY.

*Recording Secretary*—A. T. STEELE.

*Honorary Treasurer*—R. J. DWYER, M.B.

*Treasurer*—N. L. ROGERS.

*Assistant Treasurer*—H. JONES.

*Curator*—F. P. COATES.

*Councillors*—D. SMITH, J. W. GRAY.

**University of Toronto Medical Students' Young  
Men's Christian Association.**

The association is divided into two sections; one for the Primary years, of which Mr. W. T. Kergin is President, and which meets in the building of the University Young Men's Christian Association; the other for the Final years, of which Mr. S. E. Charlton is President, and which meets in the building of the Medical Faculty in Gerrard Street East.

The meetings are held weekly. The clergy and other prominent residents of the city frequently take part in the proceedings.

The objects of the association are to form a bond of union between medical students whose principles and aim in life are "Christian," and to render whatever practical assistance is possible to all medical students, especially those who are entering upon their medical studies. The Reception Committee of the association will be at the Union Station to meet and welcome all incoming students and to give any information and assistance that may be required. A list of suitable boarding houses will be available for the convenience of those who require it.

Mr. S. E. Charlton, of Galt, will be glad to communicate with any one desiring information regarding the association.

U

**REGULATIONS RELATING**  
TO THE  
**EXAMINATIONS AND GRANTING**  
OF  
**DEGREES IN MEDICINE.**

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**Degree of M.B.**

The Degree of M.B. is given to candidates who have matriculated and who have attended during four sessions of at least eight months each the course of instruction as required by this curriculum, and who have passed three examinations taken in the following order : the First at the end of the first session ; the Second, at the end of the second session ; and the Final, at the end of the fourth session.

**Entrance.**

Candidates for a degree must pass the Matriculation examination, unless (1) they possess a degree in Arts not being an Honorary Degree, from any Dominion or British University ; or (2) have already matriculated in the Faculty of Arts or in the Faculty of Law in this University ; or (3) have been registered as Matriculates in the College of Physicians and Surgeons of Ontario.

Before presenting themselves for examination, candidates must produce satisfactory certificates of good conduct, and of having completed the sixteenth year of their age.

The ordinary Annual Matriculation examinations (both Pass and Honor) will commence in the beginning of July.

Supplemental examinations for Matriculation will be held in the latter part of September, at which those who were rejected at the July examinations, as well as new candidates, may offer themselves ; but no honors or scholarships will be awarded at such Supplemental examinations.

The fee for the Junior Matriculation examination is five dollars, that is, two dollars for Part I, and five dollars for Part II, when taken separately, or five dollars for both parts taken at the same time, and must be paid when the application for the examination is made, according to the regulations issued by the Education Department, under whose superintendence this examination is now conducted. The fee for registration of exemption from the Matriculation examination is five dollars.

Candidates may delay presenting themselves for the Matriculation examination until any time before the Second examination for the degree of M.B. ; but

no candidate will be allowed to compete for relative standing, prizes or scholarships, until he has passed the Matriculation examination.

Candidates intending to compete for scholarships at Matriculation are required to notify the Registrar of the University to that effect before May 24th, in addition to the application required to be made as above stated to the Education Department.

No fee will be charged for transferring from the Faculty of Arts to that of Medicine.

For subjects of examination at Junior Matriculation, Pass and Honor, see Appendix.

### Regulations Relating to Undergraduates.

Undergraduates are required to attend lectures, and receive practical instruction during each of four years, at any of the schools of Medicine recognized for this purpose by the University.

The Senate may accept certificates of attendance at the lectures and in the laboratories of affiliated institutions other than Medical Schools.

They are required to present certificates of attendance on the various courses of lectures and practical instruction required for each examination.

The annual examinations are styled the First, Second, and Final examinations, and are to be passed at the end of the First, Second and Fourth academic years respectively.

Undergraduates below the standing of the Fourth year, who have been rejected or who have been prevented from attending the annual examinations, by sickness, domestic affliction, or other causes beyond their control, may present themselves for examination in September at the Supplemental examinations. Candidates at any examination who have passed in the majority of the subjects required may present themselves at the Supplemental examinations next ensuing, in the subjects in which they failed, and upon passing at such examinations, shall be allowed their year. Candidates who failed to attend at the annual examinations, must prove to the satisfaction of the Senate before presenting themselves in September, the existence and sufficiency of the alleged cause of absence. Candidates who were rejected must pay a fee of ten dollars, and those who did not attend a fee also of ten dollars, before offering themselves for the Supplemental examination.

Graduates in Arts of the University may enter at the Second examination, but will be required to take such subjects of the First examination as they have not taken in their Arts course, though in these subjects they shall not be required to take an Honor standing. In the case of Undergraduates in Natural Sciences, certificates of attendance on the second course of Practical Anatomy and on the second course of fifty lectures on Anatomy, may be presented with the certificates of attendance on the lectures of the Third year. (For list of equivalent examinations, see page 183.)

The fee for each examination is ten dollars, payable when the candidate notifies the Registrar of his intention to present himself.

Notice will be given annually, in January, of the days on which the exami-



nations for the year will commence. Every undergraduate who proposes to present himself at an examination must send to the Registrar a statement (according to a printed form which will be furnished) of the course he is taking, whether he intends to compete for Honors, and such other particulars as the printed form may indicate, together with the original certificates referred to in this statement.

Certificates are required for the different examinations as follows :

First examination—

Of having attended :

In Anatomy, a course of at least 50 lectures.

“ Physiology, a course of at least 50 lectures and demonstrations.

“ Inorganic Chemistry, a course of at least 50 lectures.

“ Physics, a course of at least 25 lectures and demonstrations.

“ Biology, “ “ “ 40 “

“ Practical Chemistry, a course of at least 50 hours.

“ “ Biology, “ “ “ 50 “

“ “ Anatomy, a course of instruction during six months.

Second examination—

Of having attended :

In Anatomy, a second course of at least 50 lectures.

“ Physiology, a second course of at least 50 lectures and 50 demonstrations.

“ Organic Chemistry, a course of at least 50 lectures.

“ Materia Medica and Elementary Therapeutics, a course of at least 50 lectures.

“ Embryology and Histology, a course of laboratory instruction of at least 50 hours.

Practical Chemistry, a second course of laboratory instruction of at least 50 hours.

“ Practical Anatomy, a second course of instruction during six months.

“ Practical Pharmacy, a course of instruction during three months.

Final examination—

1. Of having attended :

In Medicine, two courses, each of at least 50 lectures.

“ Clinical Medicine, “ “ 50 “

“ Surgery, “ “ 50 “

“ Clinical Surgery, “ “ 50 “

“ Pathology, “ “ 50 “

“ Practical Pathology, two courses of instruction each of at least 50 hours.

“ Obstetrics, physiological, a course of at least 50 lectures.

“ Obstetrics, pathological, “ “ 30 “

“ Gynaecology, a course of at least 50 lectures.

“ Medical Jurisprudence and Toxicology, a course of at least 50 lectures.

“ Topographical Anatomy, a course of instruction of at least 50 hours.

“ Materia Medica and Therapeutics, a second course of at least 50 lectures.

“ Hygiene, a course of at least 25 lectures.

“ Medical Psychology, a course of at least 12 lectures.

2. Of having conducted at least six labours.
3. Of proficiency in vaccination.
4. Of attendance for eighteen months in the wards of a public hospital having not less than 100 beds.
5. Of attendance for twelve months on the out-practice of a hospital, or dispensary, or with a registered practitioner.
6. Of having passed the Faculty examination of the Third year.
7. Of having attended twelve autopsies.

(NOTE.—In respect to 2 and 3, certificates will be received from any registered practitioner.

### Subjects of the Different Examinations.

#### FIRST EXAMINATION.

1. Physics.
2. Chemistry (Inorganic).
3. Biology.

#### SECOND EXAMINATION.

1. Anatomy.
2. Physiology.
3. Embryology and Histology.
4. Materia Medica and Elementary Therapeutics.
5. Chemistry (Organic and Physiological).

#### FINAL EXAMINATION.

1. Medicine and Clinical Medicine.
2. Surgery and Clinical Surgery.
3. Obstetrics.
4. Pathology.
5. Therapeutics.
6. Gynecology.
7. Medical Jurisprudence and Toxicology.
8. Hygiene.
9. Medical Psychology.
10. Topographical Anatomy.

### Examinations for Honors.

Candidates taking seventy-five per cent. of the aggregate number of marks in the Pass and Honor papers of the First or Second examination, or of one or more of the groups of subjects in the Final examination will be placed in the Honour list.

Additional papers on all Pass subjects of an examination may be set for the Honour candidates.

The subjects of the Final examination are grouped for Honors as follows :

- Group I. 1. Medicine and Clinical Medicine.  
 2. Pathology.  
 3. Therapeutics.

- Group II. 1. Surgery and Clinical Surgery.  
2. Pathology.  
3. Topographical Anatomy.
- “ III. 1. Obstetrics.  
2. Gynæcology.  
3. Pathology.
- “ IV. 1. Medical Jurisprudence and Toxicology.  
2. Hygiene.  
3. Medical Psychology.

Only those Candidates will receive their Degree with Honors who have obtained Honors in the First, Second, and Final examinations.

**Equivalent Examinations.**

Courses of lectures and examinations in the Faculty of Arts are accepted in the place of courses of lectures and examinations in the Faculty of Medicine, according to the following scheme :—

**FACULTY OF ARTS.**

1. Honor course and examination in Second Year } equivalent to { course and examination in First Year Biology, and  
Biology.
2. Honor course and examination in Second Year } equivalent to { course and examination in First Year Physiology.  
Chemistry, and Physics of the Honor course } equivalent to { course and examination in First Year Inorganic  
in Natural Sciences.
3. Honor course and examination in Third Year } equivalent to { course and examination in Second Year Chemistry  
Chemistry. } equivalent to { (with the exception of Chemistry applied to  
Physiology).
4. Honor course and examination in Fourth Year } equivalent to { course and examination in Second Year Physiology  
Biology. } and Embryology and Histology.
5. Attendance at the Honor course and examination in the Fourth Year Physiological Chemistry, in the Faculty of Arts,  
is equivalent to attendance at the course of and examination in Chemistry applied to Physiology of the Second Year in the  
Faculty of Medicine.

N. B.—Candidates who desire to compete for scholarships and medals are required to submit to the annual examinations in all the subjects of each examination, though otherwise entitled to partial exemption according to the preceding scheme; and candidates not competing for scholarships or medals, who are entitled to exemption according to the preceding scheme, will hold the same rank in Honors in these subjects as they obtained in the equivalent examinations in Arts.

Students of the Fourth Year Natural Science course in Arts, who propose to offer themselves for the Second examination in Medicine, may defer the examination in *Materia Medica* to the Final examination.



### Degree of M.D.

Bachelors of Medicine of at least one year's standing, may obtain the degree of M.D. on the fulfilment of either of the following conditions:—

1. Having composed a thesis of approved merit on some scientific subject in the Department of Medicine, or
2. Having passed an examination in Clinical Medicine and Surgery,\* together with an examination in the History of Medicine.†

\* The examination in these subjects is additional to that required for the degree of M.B.

† It is proposed to formulate a list of topics in this subject and to name a Text-Book on the History of Medicine for 1900.

### Admission ad Eundem Statum.

Undergraduates of other Universities applying for admission *ad eundem statum* must present certificates of having passed the examinations in the various subjects of this curriculum preliminary to the examination for which they desire to present themselves.

### Admission ad Eundem Gradum.

A graduate of any of the Universities in Great Britain or Ireland, if his degree be not an honorary one, may be admitted to the like degree in the University of Toronto. He must send in his certificate to the Registrar at least two weeks before the first meeting of the session of the Senate at which his application is to be brought forward.

### Fees for Degrees.

For the degree of M.B. ....	Twenty dollars.
For the degree of M.D. ....	Twenty dollars.
For admission <i>ad eundem gradum</i> .....	Twenty dollars.

The fee for the Bachelor's Degree must be paid to the Bursar not later than April 15th.

### The George Brown Memorial Scholarship in Medical Science.

Dr. A. H. F. Barbour, of Edinburgh, having placed a sum of money at the disposal of the University of Toronto, for the purpose of founding a Scholarship in Medical Science in memory of the late Hon. George Brown, the following regulations have been adopted with regard thereto:—

This scholarship shall be called the George Brown Memorial Scholarship in Medical Science and shall be awarded annually at the convocation for conferring degrees in medicine to the Bachelor of Medicine who shall have dis-

tinguished himself most during his Undergraduate course in the subjects of Anatomy, Biology, Physiology and Pathology.

The comparative value of the several subjects is to be estimated according to the following schedule :—

1st year—Biology .....	200
2nd year—Anatomy .....	300
Physiology .....	300
Embryology and Histology .....	100
4th year—Pathology .....	300
Total .....	1200

The award shall be made by a committee composed of the Professors in these subjects, and of the Examiners for the time being therein, who shall report as to the successful candidates, after having given due attention to the results of the Annual examinations, and to the character of the work done by the candidates in the University laboratories.

The holder of the scholarship during the year of tenure is required to engage in original research in any one of the laboratories of the University, on some subject bearing on the advancement of medical science—the laboratory providing the material for the investigation.

The scholarship is to be paid in two portions, two-thirds at the time of award and one-third six months later, on the holder giving a satisfactory report (to whomsoever the University may appoint) of the work he has already done.

A report of the research, when completed, is to be given to the University.

The value of the scholarship consists in the proceeds of one thousand pounds sterling, invested at the rate of interest secured by the University for such benefactions.

The scholarship is tenable for one year.

### The Reeve Scholarship in Medical Science.

Dr. R. A. Reeve has donated a sum of money to the University of Toronto for the purpose of providing a Scholarship of the value of \$250, to be awarded annually for four years. The Scholarship is designed to foster the spirit of original research and to promote the utilizing of the Laboratories of the University for that purpose.

The conditions on which the Scholarship will be awarded are as follows :—

The Scholarship will be awarded to the candidate who shall have gained the highest standing at the Final Examination in Medicine in the University of Toronto in the following subjects :—

- Medicine and Clinical Medicine.
- Surgery and Clinical Surgery.
- Obstetrics.
- Pathology.

The candidate shall agree to devote himself during the next ensuing year, under the direction of the Medical Faculty, to research work in the Physiological or Pathological Laboratory of the University, and also to act as Laboratory Assistant.

A report of the research, when completed, is to be given to the University, whose property it shall become; and it shall be published at the discretion of the University Council.

The Scholarship is to be paid in two portions, one-half on October 1st and one-half on February 1st. A report of the work accomplished by the scholar must be furnished before the final payment. This report will be presented to the Faculty, and must be approved as representing satisfactory work done up to date before the final payment is made.

The winner of the George Brown Memorial Scholarship shall not be eligible.

The subjects shall be valued as follows:—

Medicine .....	200 marks.
Clinical Medicine .....	200 "
Surgery .....	200 "
Clinical Surgery .....	200 "
Obstetrics .....	200 "
Pathology .....	200 "
Total .....	1200 "

### The Starr Medals.

The late Richard Noble Starr, M.D., devised certain property for the encouragement of post-graduate study in Anatomy, Physiology and Pathology, and in fulfilment of this object one gold and two silver medals, called the "Starr Medals," are awarded annually to three candidates for the degree of M.D., who have shown by the theses which they have presented for that degree, that they have successfully pursued such study in any one of these subjects. The theses for which these medals are given must attain a standard approved of by the Board of Examiners, and the relative value of the theses will determine the rank of the candidates for the medals.

MEDALLISTS.

Medicine.

*g, gold medal; s, silver medal.*

- 68 Oille, L. S., *g.*
- 69 Atkins, M. H., *s.*
- 70 Millar, T., *s.*
- 69 Barnhart, C. E., *g*<sup>1</sup>
- King, J., *s.*
- Francis, W. F., *s.*
- 60 Bascom, J., *g.*
- Playter, E., *s.*
- Tisdell, F. B., *s.*
- Morton, E. D., *s.*
- Ogden, W. W., *s.*
- Marlyb, D. H., *s.*
- 61 Hudson *g.*
- Elliott, J. D., *s.*
- 62 Dolster, J., *g.*
- DeGrassi, G. P., *g.*
- 63 Ramsay, W. F., *g.*
- 64 McLaughlin, J. W., *g.*
- 65 Burnham, E. L., *g.*
- McCarthy, J. L., *g., s.*
- Kitchen, E. E., *s.*
- 66 Mickle, W. J., *g.*
- McCullough, J., *s.*
- Wadsworth, J. J., *s.*
- 67 Sparks, T., *g.*
- Palmer, R. N., *s.*
- Harbottle, R., *s.*
- Eckes, F. R., *s.*
- McFarlane, L., *s.*
- Newton, J. H., *s.*
- 68 Brown, J. P., *g.*
- Hunt R. H., *s.*
- Howe, T. C., *s.*
- 69 Graham, J. E., *g.*
- Humble, C., *s.*
- McCollum, J. H., *s.*
- Bentley, T. B., *s.*
- 70 Greenless, A., *g.*
- Burgess, T. J. W., *s.*
- Smith, C. M., *s.*
- Standish, J., *s.*
- Wagner, W. J., *s.*
- Burt, W., *s.*
- 71 Williams, A. D., *s.*
- Forrest, W., *g.*
- Moore, C. Y., *s.*
- Henning, N. P., *s.*
- Delamater, R. H., *s.*

- 72 Zimmerman, R., *g.*
- Crozier, J. B., *s.*
- 73 Close, J. A., *g.*
- Beeman, M. L., *s.*
- Wright, A. H., *s.*
- Hagel, S. D., *s.*
- 74 Fraser, D. B., *g.*
- Brown, O. C., *s.*
- Farewell, A., *s.*
- Gameron, I. H., *s.*
- Shaw, G., *s.*
- Fraser, D., *s.*
- 75 Britton, W., *g.*
- White, J., *s.*
- Bennett, J. H., *s.*
- Eakins, J. E., *s.*
- 76 McPhedran, A., *g.*
- Lackner, H. G., *s.*
- Bowerman, A. C., *s.*
- Wilson, W. J., *g.*
- 77 Stuart, W. T., *g.*
- Orr, R. R., *s.*
- Richards, N. D., *s.*
- 78 Griffin, H. S., *s.*
- Meek, H., *s.*
- Bonnar, J. D., *s.*
- Kennedy, G. A., *s.*
- Gardiner, J. H., *s.*
- 79 Burt, F., *g.*
- Mills, R. P., *s.*
- Chappell, W. F., *s.*
- 80 Cross, W. J., *g.*
- Bryce, P. H., *s.*
- Ferguson, J., *s.*
- 81 Duncan, J. H., *g.*
- 82 Wallace, R. R., *g.*
- Duncan, J. T., *s.*
- 83 Robinson, W. J., *g.*
- 83 Doisen, F. J., *g.*
- 84 Clerke, J. W., *g.*
- 85 Howell, J. H., *g.*
- 85 Saunders, M. R., *s.*
- Hoople, H. N., *s.*
- 86 Peters, G. A., *g.*
- Noecker, C. T., *g.*
- Johnston, D. R., *s.*
- 87 Ego, A., *g.*

- 88 Féré, G. A., *g.*
- Galloway, J., *s.*
- 89 Chambers, G., *g.*
- Collins, J. H., *s.*
- Godfrey, F. E., *s.*
- 90 Barker, L. F., *g.*
- Cullen, T. S., *s.*
- Philp, W. H., *s.*
- McFarlane, M. T., *s.*
- McGillivray, C. F., *s.*
- 91 Barnhardt, W. N., *g.*
- Hollen, P., *s.*
- Boyd, G., *s.*
- McGorman, G., *s.*
- 92 Bruce, H. A., *g.*
- Middlebro, T. H., *s.*
- Gowland, R. H., *s.*
- Brown, J. N. E., *s.*
- 38 Harvie, J. N., *g.*
- South, T. E., *s.*
- Elliott, W., *s.*
- Fletcher, T. B., *s.*
- 94 McCollum, W. J., *g.*
- Rutledge, H. N., *s.*
- Crain, W. F., *s.*
- Johnston, H. A., *s.*
- 95 Merritt, A. K., *g.*
- McKay, T. W. G., *s.*
- McCrae, T., *s.*
- Hunter, A. J., *s.*
- 96 McCaig, A. S., *g.*
- Roberts, E. L., *g.*
- Graef, C., *s.*
- Goldie, W., *s.*
- Macklin, A. H., *s.*
- 97 Elliott, J. H., *g.*
- Hume, J. J. C., *s.*
- Nichol, R., *s.*
- Yeomans, W. L., *s.*
- 98 McCrae, J., *g.*
- Sutherland, G. A., *s.*
- White, W. C., *s.*
- Calhoun, F., *s.*
- 99 Wells, W., *g.*
- Hargrave, H. G., *s.*
- Pierzol, W. H., *s.*
- Gow, J., *s.*

Starr Medallists.

- 67 Palmer, R. N., *s.*
- 68 Hunt, R. H., *s.*
- Brown, J. P., *s.*
- Cassidy, J. J., *s.*
- 69 Graham, J. E., *g.*
- 70 Burgess, T. J. W., *g.*
- Greenless, A., *s.*
- Wagner, W. J., *s.*
- 71 Moore, C. Y., *g.*
- Henning, N. P., *s.*
- Forrest, W., *s.*
- 72 Zimmerman, R., *g.*
- Crozier, J. B., *s.*
- 73 Meldrum, N. W., *g.*
- Close, J. A., *s.*

- 73 Hagel, S. D., *s.*
- 74 Brown, O. C., *g.*
- Farewell, A., *s.*
- Campbell, A. J., *s.*
- 75 Britton, W., *g.*
- White, J., *s.*
- Bennett, J. H., *s.*
- 76 Lackner, H. G., *g.*
- McPhedran, A., *g.*
- Bowerman, A., *s.*
- 77 Stuart, W. T., *g.*
- 78 Bonnar, H. A., *g.*
- Meek, H., *s.*
- 79 Griffin, H. S., *s.*
- 79 Burt, F., *g.*

- 80 Cross, W. J., *g.*
- Bryce, P. H., *g.*
- 81 Duncan, J. H., *g.*
- 82 Wallace, R. R., *g.*
- 83 Robinson, W. J., *g.*
- 86 Peters, G. A., *g.*
- 89 Collins, J. H., *g.*
- Chambers, G., *s.*
- 90 Barker, L. F., *g.*
- 91 Barnhardt, W. N., *g.*
- 92 Middlebro, T. H., *g.*
- Bruce, H. A., *s.*
- 96 McKay, T. W. G., M.P., *g.*
- Rennie, J. A., *s.*
- 99 Hill, H. W., *s.*



### Winners of Faculty Medals and Scholarships for 1899.

#### Medals.

Faculty Gold Medal . . . . .	Wells, W.
First Faculty Silver Medal . . . . .	Hargrave, H. G.
Second Faculty Silver Medal . . . . .	Piersol, W. H.
Third Faculty Silver Medal . . . . .	Gow, J.

#### Scholarships.

First Year . . . . .	1. Fletcher, G. W.
	2. Archer, A. E.
Second Year . . . . .	1. Clarkson, F. A.
	McCartney, G. E. R. } <sup>sq.</sup>

#### POST GRADUATE SCHOLARSHIP.

THE GEORGE BROWN MEMORIAL SCHOLARSHIP IN MEDICAL SCIENCE.

For this Scholarship, Stanley, J. R., Wells, W., Neely, D. B., Hargrave, H. G., McTavish, F., Fletcher, W. G., ranked in the order named.

### Students of the University Faculty who received the Degrees in Medicine at the Annual Examinations of 1899.

#### M.D.

Bollen, P.

Hill, H. W.

#### M.B.

Archibald, T. D.  
Begg, C. L.  
Bremner, W. C. P.  
Brethour, H. F.  
Burgess, A. M.  
Chisholm, J. S.  
Clarke, W. T.  
Colville, N.  
Couche, J. B.  
Dean, W. B.  
Dillane, M. K.  
Dowsley, G. W. O.  
Fletcher, W. G.  
Gow, J.  
Hargrave, H. G.  
Hawken, R. E.

Holmes, C. U.  
Jones, E. A.  
Kitchen, A. S.  
Kitchen, W. W.  
Knox, A. A.  
Leask, L. M.  
McArthur, P. R.  
McCallum, S.  
Macdonald, W. A. C.  
McFall, W. A.  
McKenna, C. H.  
Mackenzie, J. J.  
McLeay, L.  
McTavish, F.  
Neely, D. B.  
Peters, J. H.

Piersol, W. H.  
Ramsey, G. H.  
Ratcliffe, W. G.  
Reid, J. B.  
Robinson, J. W.  
Rutherford, J. W.  
Schnarr, R. W.  
Stanley, J. R.  
Tanner, A. W.  
Turnbull, F. D.  
Vivian, R. P.  
Wagner, C. J.  
Wales, F. C.  
Walters, J. J.  
Wells, W.  
Young, F. A.

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**CURRICULA AND REGULATIONS**

FOR DEGREES OF

**Ph.D., LL.B., B.A.Sc., C.E., M.E., E.E., D.D.S., Phm. B., B.S.A.,  
Mus. Bac., B. PæD., D. Pæd.**

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## DEGREE OF PH.D.

The Degree of Doctor of Philosophy has been established for the purpose of encouraging research in the University of Toronto, and is conferred on the following conditions:—

1. The candidate shall be a graduate in Arts of the University of Toronto, and shall register in the University of Toronto as a graduate student. Graduates in Arts of other Universities who have been admitted *ad eundem gradum* in this University may also register. The Registrar shall not register any student unless he present a certificate of qualification from the professors and heads of that department in the University of Toronto, University College, and Federated Universities, from which he proposes to select his major subject. Such registration may take place at any time in the academic year.

2. The candidate shall after registration have pursued for at least two years the study of a special subject, to be termed the major subject, under the direction of the professor of such subject in the University of Toronto, University College, or Federated Universities.

3. Exemption from attendance for the first of the two years of study may be granted upon the report of the professor, but the candidate shall present satisfactory evidence of study in his major subject at another University during that year.

4. The candidate shall pass examinations in two other subjects, to be termed the minor subjects. He shall obtain a standing in the examinations in the two minor subjects equivalent at least to that required for second class Honors in the examination for the B.A. degree. The examination in either or both minor subjects shall be dispensed with in case the candidate has obtained first-class Honors in either or both of such subjects at the examination for B.A. in this University.

5. The candidate shall present a thesis on some topic in his major subject embodying the results of an original investigation conducted by himself.

6. The acceptance of the thesis shall be determined upon the report of the professors and heads of that department which includes the major subject, in the University of Toronto, University College and Federated Universities, and such report shall also state that the candidate has passed a satisfactory examination in his major subject. The candidate, after the acceptance of the thesis, shall furnish to the Registrar one hundred printed copies of such thesis together with the report thereon, before he receives the degree.

7. The annual fee for registration in the University of Toronto and University College is \$25, and the fee for the degree of Doctor of Philosophy is \$50.

8. The candidate shall select one of his minor subjects from the group to which his major subject belongs, and shall select his second minor as indicated in the annexed table.

The following is the list of major subjects arranged in groups :

GROUP I. BIOLOGY.

1. Animal Morphology.
2. Animal Physiology.
3. Botany.

GROUP II. CHEMISTRY.

1. Inorganic Chemistry.
2. Organic Chemistry.
3. Physical Chemistry.
4. Physiological Chemistry.

GROUP III. PHYSICS.

1. Light.
2. Heat.
3. Electricity.
4. Sound.
5. Dynamics.

GROUP IV. GEOLOGY.

1. Geology.
2. Mineralogy.
3. Palæontology.

GROUP V. PHILOSOPHY.

1. Logic and Metaphysics.
2. Psychology.
3. History of Philosophy.
4. Ethics.

GROUP VI. ORIENTAL LANGUAGES AND LITERATURE

1. Hebrew Language and Literature.
2. Aramaic Language and Literature.
3. Arabic Language and Literature.
4. Assyrian Language and Literature.

GROUP VII. POLITICAL SCIENCE.

1. Economic History.
2. Economic Theory.
3. Philosophy of Politics.
4. Constitutional History and Law.

Minor subjects also may be chosen from the following groups :

GROUP VIII. MODERN LANGUAGES AND LITERATURE.

1. Old English.
2. Modern English.
3. Modern French.
4. Old French.
5. Modern German.



## GROUP IX. LATIN AND GREEK LANGUAGES AND LITERATURE.

1. Greek Language and Literature.
2. Latin Language and Literature.
3. Greek Philosophy.
4. Roman and Greek History.

## GROUP X. HISTORY.

1. Canada under the French Regime.
2. Canada under British Rule.
3. The American Revolution.

## GROUP XI. MATHEMATICS.

1. Geometry.
2. Analysis.

The provisions of this statute may be extended to any other department in the University of Toronto, University College and Federated Universities, upon application of the head or heads of such department to the University or College to which he or they belong, and upon satisfying such governing body of the ability of their department to carry out the purposes of this statute.

Until the extension of the provisions of this statute to departments not at present included in the preceding enumeration of groups, the heads of such departments shall, when asked so to do, name subjects as second minors in their departments.

## TABLE.

When the candidate selects his major subject from	He shall select his second minor subjects from
Group I.	Group II., III., IV., or V.
Group II.	Group I., III., IV., or XI.
Group III.	Group I., II., IV., V., or XI.
Group IV.	Group I., II., III., or V.
Group V.	Group I., II., III., VII., or IX.
Group VI.	Group V., VIII., IX., or X.
Group VII.	Group V., VIII., IX., X., or XI.

## CURRICULUM IN LAW.

## Degree of LL.B.

Candidates for the degree of LL.B. must have :—

- (a) produced satisfactory certificates of conduct ;
- (b) matriculated in the Faculty of Law ;
- (c) passed the prescribed examinations ;
- (d) attained the age of twenty-one years.

Any person having the degree of Bachelor of Arts or of Master of Arts in the University of Toronto ; or any person having the degree of Bachelor of Arts or of Master of Arts of another University, who has been admitted *ad eundem gradum* in the University of Toronto ; or any person who has been admitted to the Bar by the Law Society of Upper Canada ; or any person who has been admitted a Student-at-Law by the Law Society of Upper Canada, and who has passed his Intermediate examinations as required by the said Society, provided that before he be entitled to receive the degree of LL.B. he shall have been admitted as a Barrister by the said Law Society, may enter the Faculty of Law at the Third year of the course of study in that Faculty ; but prior to presenting himself for the final examination in the course for the degree of LL.B. he shall pass in addition to the examinations of the Third and Fourth years in the Faculty of Law, the following examinations in the Faculty of Arts, viz. :—

1. ENGLISH CONSTITUTIONAL HISTORY : Honor examinations of the Second and Third years, or the examination in the Third year of the Undergraduate General course.
  2. ENGLISH AND COLONIAL CONSTITUTIONAL LAW : Honor examination of the Third year.
  3. HISTORY OF ROMAN LAW : Honor examination of the Third year.
  4. HISTORY OF ENGLISH LAW : Honor examination of the Third year.
  5. POLITICAL ECONOMY : Honor examinations of the Second or Third year, or the examination of the Fourth year in the Undergraduate General course.
  6. JURISPRUDENCE : Honor Examination of the Fourth year.
  7. PUBLIC INTERNATIONAL LAW : Honor examination of the Fourth year.
  8. CANADIAN CONSTITUTIONAL HISTORY : Honor examination of the Fourth year, or examination of the Fourth year of the Undergraduate General course.
  9. FEDERAL CONSTITUTIONAL LAW : Honor examination of the Fourth year.
- Undergraduates in the Faculty of Arts who intend to proceed to the degree of LL.B. may take these examinations either during their Arts course, or during the Third and Fourth years of their Law course.

**Matriculation.**

The Matriculation examination in the Faculty of Law shall be identical with the examination of the First year in the Undergraduate General course :— English ; Latin ; any two of the following languages—Greek, French, German Hebrew ; Ancient History ; Mathematics ; Physics or Biology.

**First Year.**

The subjects of examination in the First year in the Faculty of Law are as follows :—

(a) Subjects of the General course in the Faculty of Arts in which Pass standing will be required :

1. English of the Third year with the addition of English Composition.
- 2-3. Any two of the following languages of the Second year, viz.—Latin, Greek, French, German, Hebrew.
4. Mediæval History of the Second year.
5. English Constitutional History of the Third year.
6. Ethics of the Third year.
7. Logic of the Second year.
8. Psychology of the Second year.

(b) Subjects of the Political Science course of the Third year, in which Honor standing will be required :

1. English and Colonial Constitutional Law.
2. Theory of Political Economy.
3. History of English Law.
4. History of Roman Law.

**Second Year.**

The subjects of examination in the Second year in the Faculty of Law shall be as follows, viz. :—

(a) Subjects in the Faculty of Arts in which Pass standing will be required :

1. English of the Fourth year of the General Course.
- 2-3. Any two of the following languages of the Third year of the General Course—Latin, Greek, French, German, Hebrew.
4. Economic History of the Honor History of the Fourth Year.

(b) Subjects of the Political Science course, in which Honor standing will be required :

1. Modern History of the Third year.
2. Canadian Constitutional History.
3. Public Finance.
4. Political Philosophy.
5. Jurisprudence.
6. Public International Law.
7. Federal Constitutional Law.

**Third Year.**

1. Common Law ..... Broom's Common Law.
2. Personal Property ..... Williams.
3. Contracts ..... Anson.
4. Medical Jurisprudence ..... Guy and Ferrier to p. 358 inclusive.
5. Equity ..... { Snell.  
Marsh (History of the Court of Chancery).
6. Theory of obligation ..... Institutes of Justinian { Bk. 1, titles 1, 2, 3.  
Bk. 3, " 13-39.  
Bk. 4, " 1.  
Mackenzie, Roman Law, Part III.
7. Canadian Constitutional Law .. Clement.

**Fourth Year.**

1. Law of Torts ..... { Bigelow, English ed.  
Pollock.
2. Law of Real Property ..... { Digby.  
Leith's Blackstone.
3. Commercial Law ..... { Chalmers.  
Maclaren, Bills and Notes.
4. Private International Law ..... Westlake.
5. Corporations ..... Brice on *ultra vires*, Parts 1, 2 and 3.
6. Construction and operation of Statutes ..... Hardcastle.
7. Criminal Law ..... { Harris.  
Criminal Code and amendments, excepting as regards Procedure.
8. Domestic Relations ..... Eversley, Parts 1, 2 and 3.

Each candidate for the degree of LL.B., must present a thesis satisfactory to the examiners in law, upon a legal subject on or before the 31st of March in the year in which he presents himself for examination in his Fourth year in the Faculty of Law, or on or before the said date in any subsequent year. The subject of the thesis will be prescribed by the Senate, and will be announced at least twelve months before the date upon which it is due. An oral examination on the subject of the thesis may be required at the option of the examiners in Law. Candidates for the degree may defer presenting the thesis until a subsequent annual examination, in which case the fee for examination shall be \$10.

**Fees.**

The following fees must be paid :—

- For matriculation or entrance ..... Ten dollars.
- For each examination after matriculation ..... Ten dollars.
- For each supplemental examination ..... Ten dollars.
- For the degree of LL.B. .... Twenty dollars.
- For admission *ad eundem gradum* LL.B. .... Twenty dollars.



The fee for Matriculation and for each subsequent examination must be paid to the Bursar at the time the candidate makes application for the examination.

The fee for the degree must be paid to the Bursar before the candidate is admitted to the Final examination.

#### **Examinations.**

The examinations will take place in the month of May. Notice of the day when they commence will be given in January.

Every student who purposes presenting himself at any examination is required to send to the Registrar, at least six weeks before the day appointed for the examination, a paper (according to a printed form which will be provided on application) stating his standing, and whether he is a candidate for Honors or otherwise.

Candidates who at any examination have failed in not more than two subjects may present themselves for examination in such subjects at the next ensuing Supplemental examinations.

Undergraduates below the Fourth year in the Faculty of Law, who have been rejected or who have been prevented from attending the Annual examinations in May by sickness or other cause beyond their control, may present themselves in September, at the time of the Supplemental examinations in Arts.

Candidates in the Faculty of Law shall not be required to pass an examination on those subjects in which they have already passed the required examination in the University of Toronto, or an equivalent examination in the course of studies prescribed by the Law Society of Upper Canada.

Candidates who have taken the course at the Law School are required to present to the Registrar a certificate from the Secretary of the Law Society, showing the subjects in the Law School curriculum on which the candidate has passed examinations at the said School, and such certificate shall entitle the candidate to exemption from examination on the subjects mentioned in said certificate, where said subjects are included in the University curriculum in Law.

#### **Subject of Thesis.**

The subject of the thesis for 1899 shall be "The Prerogatives of the Crown in the Dominion and Provinces of Canada."

#### **Certificates of Honor.**

Certificates of Honor will be given at each examination to those students who have been placed in the first and second class of Honors. The fee for such certificates shall be one dollar.

#### **Works of Reference.**

American and English Encyclopædia of Law. Encyclopædia of Pleading and Practice.

## CURRICULUM IN APPLIED SCIENCE.

### Degree of Bachelor of Applied Science.

Candidates who have fulfilled the requirements of the Fourth year in the School of Practical Science are eligible for the degree of Bachelor of Applied Science in the University of Toronto under the following conditions and regulations:—

1. Candidates for the said degree shall hold the diploma of the School of Practical Science in any one of the regular courses of the said school, or shall be of the standing of the Fourth year in the Honor department of Chemistry and Mineralogy in the University of Toronto.
2. They shall have fulfilled the conditions relating to the Fourth or post-graduate year in the School of Practical Science, and shall present certificates of having done so to the Registrar of the University. Honors may be granted with such certificates by the Faculty of the School.
3. Each candidate shall prepare a Thesis based on the results of his Fourth year work in the said School of Practical Science for the approval of the University examiners. This Thesis must be sent to the Registrar not later than the first day of May, and is to be accompanied by all necessary drawings, specifications, tables and estimates. To pass in it a candidate must obtain 50 per cent., and to take Honors 75 per cent., of the marks assigned.
4. Candidates will be required to select two sub-divisions in any one of the following groups, and to pass such written and oral examinations on the subjects selected as may be prescribed by the University examiners.

- |    |   |  |
|----|---|--|
| A. | { | Astronomy.                                 |
|    | { | Geodesy and Metrology.                     |
|    | { | Architecture.                              |
|    | { | Strength and Elasticity of Materials.      |
| B. | { | Hydraulics.                                |
|    | { | Thermodynamics and Theory of Heat Engines. |
|    | { | Electricity and Magnetism.                 |
|    | { | Industrial Chemistry.                      |
| C. | { | Sanitary and Forensic Chemistry.           |
|    | { | Inorganic and Organic Chemistry.           |
| D. | { | Mineralogy and Geology.                    |
|    | { | Metallurgy and Assaying.                   |

The sub-division "Inorganic and Organic Chemistry" will be obligatory on all candidates who select group C.

To pass in each subject 33 per cent., and to take honors 66 per cent. of the marks assigned will be required.

5. The degree with honors will be conferred on candidates who obtain three out of the four honors possible.

Viz.—Certificate with honors .....(cl. 2.)  
 Thesis with honors .....(cl. 3.)  
 Honors in each subject of examination .....(cl. 4.)

6. Candidates are required to send to the Registrar of the University at least three weeks before the commencement of the annual examination an application for examination according to a printed form to be obtained from the Registrar, and at the time of making such application a fee of ten dollars must be paid to the Bursar.

7. The examination for the degree shall be held in May.

8. The fee for the degree shall be ten dollars, and shall be paid to the Bursar not later than the first day of May.

9. The ordinary time for conferring the degree shall be at the University Commencement in June. The degree may be conferred at any meeting of the Senate.

10. The thesis, drawings, and other papers accompanying them, shall be the property of the University.

11. In case any change be made in the conditions referred to in the second clause, such change shall be submitted to the Senate, and shall have no force so far as the said clause is concerned, unless approved by resolution of the Senate.

### Degrees in Engineering.

By a Statute of the University of Toronto, passed in 1896, graduates of the School of Practical Science may be admitted to degrees in Engineering upon the following terms :—

I. That all previous Statutes of the University relating to degrees or diplomas in Engineering be repealed.

II. That the following degrees be hereby established, viz., Civil Engineer (C. E.), Mining Engineer (M. E.), Mechanical Engineer (M. E.), Electrical Engineer (E. E.).

III. That the following be the conditions and regulations governing the conferring of the said degrees :—

1. A candidate for one of the said degrees shall hold the Diploma of the School of Practical Science and the degree of Bachelor of Applied Science of the University of Toronto, except in the case provided for in clause 11 hereunder.

2. He shall have spent at least three years after receiving the degree of Bachelor of Applied Science in the actual practice of the branch of Engineering wherein he is a candidate for a degree.

3. Intervals of non-employment or of employment in other branches of Engineering shall not be included in the above three years. It shall not be necessary that the several periods requisite to make up the said three years be consecutive.

4. Satisfactory evidence shall be submitted to the University Examiners as to the nature and length of the candidate's professional experience for the purposes of clauses 2 and 3.

The Examiners shall satisfy themselves by oral or written examinations in regard to the candidate's experience and competence.

5. The candidate shall prepare an original Thesis on some engineering subject in the branch in which he wishes a degree; the said Thesis to be accompanied by all necessary descriptions, details, drawings, bills of quantities, specifications, and estimates.

The candidate may be required at the option of the Examiners to undergo an examination in the subject of this Thesis.

6. Notice in writing shall be sent to the Registrar not later than the first day of February, informing him of the degree to which the candidate wishes to proceed, and of the title of his proposed Thesis, for the approval of the Senate.

7. The evidence under clause 4, and the Thesis, with accompanying papers described in clause 5, shall be sent to the Registrar not later than the first day of May.

8. The candidate shall be required to present himself for examination in the month of May at such times as may be arranged by the Registrar.

9. The fee for any one of the said degrees shall be twenty dollars, and shall be paid to the Bursar not later than the first day of May.

10. The Thesis, drawings and other papers submitted under clause 7 shall become the property of the University.

11. Candidates who graduated from the School of Practical Science before June, 1895, shall not be required to hold the degree of Bachelor of Applied Science.



## CURRICULUM IN DENTISTRY.

**Degree of Doctor of Dental Surgery.****Matriculation.**

Candidates for the degree of Doctor of Dental Surgery must pass the Matriculation examination hereinafter mentioned, unless

1. They possess a degree in Arts (not being an Honorary Degree), from some recognized University; or
2. Have already matriculated in the Faculty of Arts in this or some other University in Canada; or
3. Are Matriculants in the College of Physicians and Surgeons of Ontario; or
4. Have passed the Form III. or Form IV. Departmental Non-professional examinations in which the Latin option has been taken, it being understood that the equivalent examinations under titles no longer in force will be accepted.

Candidates not possessing any of the above named qualifications, will be required to pass the examination prescribed for matriculants in the Faculty of Medicine in this University, provided always that candidates registered as matriculants of the Royal College of Dental Surgeons of Ontario, shall be admitted matriculants in the Department of Dentistry.

**Undergraduates.**

Undergraduates (candidates for the degree) residents of the Province of Ontario, must have complied with all the requirements prescribed from time to time by the Board of Directors of the Royal College of Dental Surgeons of Ontario, for admission to examination for a certificate of license to practice Dentistry in Ontario.

Undergraduates (candidates for the degree), not resident in Ontario, must:

1. Have devoted at least three and one-half calendar years (not being engaged in any other business) to the study of Dentistry.

2. Must have attended at least three full courses of lectures, embracing all the subjects of the curriculum, of not less than five months each (exclusive of the time occupied in examination), and including the daily clinic at a dental school recognized by this University; the last of which must be at the School of Dentistry of the Royal College of Dental Surgeons of Ontario.

3. Must have spent that portion of time, when not in attendance at lectures and clinics at the School of Dentistry, as students in the office of an approved dentist.

**Examinations.**

Candidates for the degree must pass two examinations, an intermediate and a final, an interval of not less than one year intervening between them. Until further provision be made, a certificate of having passed the intermediate examination of the Royal College of Dental Surgeons of Ontario will be accepted by this University.

Candidates for the final examination, which will be held at a time fixed by the Committee on Examinations, must present to the Registrar satisfactory certificates, covering all the requirements relating to undergraduates as given above, and of having passed the intermediate examination. The subjects for intermediate examination shall be :—

- (a) Comparative Dental Anatomy.
- (b) General Histology.
- (c) Bacteriology.
- (d) Theory of Operative Dentistry.
- (e) Theory of Dental Prosthetics.
- (f) Dental Technique.
- (g) Dental Materia Medica and Therapeutics.
- (h) Principles and Practice of Medicine and Surgery as applied in Dentistry.
- (i) Anatomy.
- (k) Physiology.
- (l) Chemistry.

The subjects for final examination shall be :

- (a) Theory and Practice of Operative Dentistry.
- (b) Theory and Practice of Dental Prosthetics.
- (c) Dental Pathology.
- (d) Dental Histology.
- (e) Principles and Practice of Medicine and Surgery as applied in Dentistry
- (f) Dental Materia Medica and Therapeutics.
- (g) General Anatomy and special Anatomy of Head and Neck.
- (h) Physiology.
- (k) Chemistry.
- (l) Jurisprudence.

(These Examinations will be written.)

- (m) Orthodontia.
- (o) Practical Operative Dentistry.
- (p) Practical Prosthetic Dentistry.

Candidates shall be examined in practical work from time to time, during the session of the Royal College of Dental Surgeons, on completion of the required work in the Infirmary and Laboratory of the College.

Candidates may take the final examination in Anatomy, Chemistry and Orthodontia, at the close of the Second college year, on payment of a fee of three dollars.

Supplemental examinations will be conducted under the joint auspices of the University and the Royal College of Dental Surgeons in October.

No candidate shall be considered as having passed the examination who has not obtained 60 per cent. of the marks allotted; nor shall a candidate be considered as having passed in any subject who has not obtained at least 40 per cent. of the marks allotted to such subject.

#### Equivalent Examinations.

Examinations in the Faculty of Arts in the Department of Natural Science Division 1, are accepted in lieu of examinations for the degree of Doctor of Dental Surgery, as follows:—

- (a) Physiology and Chemistry of the Second year for the Physiology and Chemistry of the intermediate examination.
- (b) Histology of the Fourth year for the General Histology and Bacteriology of the intermediate examination.
- (c) Chemistry of the Third year and Physiology of the Fourth year for Chemistry and Physiology of the final examination.

#### Fees.

The fee for matriculation shall be five dollars.

The fee for registration of a certificate accepted in lieu of said examination shall be five dollars.

The fee for final examination shall be ten dollars.

The fee for supplemental examination in any one or more of the final subjects, which may be taken at the close of the second year, shall be five dollars.

The fee for supplemental examination in one or more of the other final subjects shall be ten dollars.

The fee for the degree of D. D. S. shall be fifteen dollars.

No fee shall be charged for transference from any Faculty of the University to the Department of Dentistry.

The fee for admission *ad eundem gradum* shall be twenty dollars.

## CURRICULUM IN PHARMACY.

## Degree of Bachelor of Pharmacy.

**Matriculation.**

Candidates for the degree of Bachelor of Pharmacy must either :

1. Possess a degree in Arts (not an Honorary degree) from some recognized University, or
2. Have already matriculated in the Faculty of Arts, or the Faculty of Law, or the Faculty of Medicine in this or some other University in Canada, or
3. Be matriculants in the College of Physicians and Surgeons of Ontario, or
4. Have passed the Primary or the Junior or Senior Leaving examinations of the Education Department of Ontario in which Latin has been taken.

Provided always that all candidates registered as apprentices of the Ontario College of Pharmacy, or who have received the diploma of the College of Pharmacy up to the first day of July, A. D. 1898, shall be admitted as matriculants in the Department of Pharmacy on payment of the registration fee of five dollars.

**Regulations.**

Undergraduates (candidates for the degree), resident in the Province of Ontario must have complied with all the requirements prescribed from time to time by the Council of the Ontario College of Pharmacy for admission to examination for a diploma licensing to practice Pharmacy in Ontario, and must have received from the Registrar of the Ontario College of Pharmacy a certificate of having passed the Final examination of that College.

Candidates for the degree, not resident in Ontario, must have devoted at least four years (not being engaged in any other business) to the study of Pharmacy, being apprenticed during that time to a regularly qualified Pharmaceutical Chemist ; must have attended the full courses of lectures, embracing all the subjects of the curriculum, the length of each course being not less than that required from time to time by the Council of the Ontario College of Pharmacy, and including practical work at some College of Pharmacy recognized by this University ; the last of which courses must be at the Ontario College of Pharmacy.

All candidates who have, prior to August 15th, 1892, received the diploma of the Ontario College of Pharmacy shall not be required to conform to the above, but shall be allowed their degree on passing the examination on the subjects hereinafter given.



**Examinations.**

Candidates for the degree must pass an examination to be held in the month of May of each year—hour and date of commencing to be hereafter given—must present to the Registrar satisfactory certificates covering all the requirements relating to undergraduates as given above, and of having passed the final examination of the Ontario College of Pharmacy.

The subjects of the examination shall be as follows :

1. Botany and Microscopy.
2. Theory and Practice of Chemistry and Toxicology.
3. Materia Medica, including Posology and Pharmacognosy.
4. Theory and Practice of Pharmacy, including Interpretation of Prescriptions and Dispensing.

These examinations shall be partly written, partly oral, and partly practical. No candidate shall be considered as having passed the examination who has not obtained fifty per cent. of the marks allotted ; nor shall a candidate be considered as having passed in any subject who has not obtained at least forty per cent. of the marks allotted to such subject.

**Fees.**

For Matriculation or registration of matriculation .....	\$5 00
For annual examination (each) ....	10 00
For each practical examination .....	0 50
For the degree Phm. B. ....	10 00

No fee shall be charged for transference from any faculty of this University to the Department of Pharmacy.

## CURRICULUM IN AGRICULTURE.

The Course of Study for an Associate Diploma of the Ontario Agricultural College is one of two years, and embraces the following subjects :—

### First Year.

Agriculture.	Veterinary Anatomy.
Live Stock.	Veterinary Materia Medica.
Dairying.	English Grammar.
Poultry.	English Literature.
Apiculture.	English Composition.
Inorganic Chemistry.	Drawing.
Organic Chemistry.	Book-keeping.
Zoology.	Arithmetic.
Botany.	Mensuration.
Geology.	

### Second Year.

Agriculture.	Veterinary Pathology.
Live Stock.	Veterinary Surgery and Practice.
Dairying.	English Grammar.
Poultry.	English Literature.
Apiculture.	Political Economy.
Horticulture.	Drawing.
Agricultural Chemistry.	Mechanics.
Analytical Chemistry.	Physics.
Systematic and Economic Botany.	Levelling and Road-making.
Entomology.	

### Third Year.

Any associate who ranks high in the theory and practice of the first two years, and takes not less than sixty per cent. of the aggregate number of marks in English Grammar, Literature, and Composition, may remain for a third year and take the following course for the degree of B. S. A. (Bachelor of the Science of Agriculture).

*General Course—To be taken by all Third year students.*

#### Agriculture.

1. Review of first and second year work.
2. Lectures and practical work (Fall Term).

**Chemistry.**

1. Review of Second year work in Agriculture and Animal Chemistry.
2. General Chemistry, lectures, with experiments, 2 hours per week till Christmas.
3. Reading: Storer, Vol. I, Chaps. 1, 2, 3, 4, 7, 8, 10, 11, and 12; Vol. II, Chaps. 5, 6, 7, 8, 9, 10, 15, 17, 18, and 19; Manual of Cattle Feeding (Armsby).

**Geology.**

1. Lectures: A general review of the subject, referring particularly to the ages, systems, and formations in Canada; special attention to the geology of Ontario, New Brunswick, Nova Scotia, Manitoba, and the North-West, with regard to their most valuable economic products; the disintegration and decomposition of rocks in the formation of soil, etc.

2. Reading: Elements of Geology (Le Conte), Part I, Chaps. 2 and 3; Part II, Chaps. 5 and 6; Part III, Chaps. 3 and 5.

Reference.—Handbook of Canadian Geology (Dawson).

**Botany.**

1. Structural and Physiological Botany; cells and tissues of plants; organs of vegetation and reproduction; plants in relation to soil; processes of absorption, circulation, assimilation, metabolism, and transpiration.

2. Vegetable Histology; technique of microscope; mounting, examination, and drawing of vegetable cells and tissues, etc.

3. Reading: Botany (Bastin); Physiological Botany (Vines).

**English.**

A general acquaintance with the character of the work of the following writers, together with critical study of the specified selections:—

SHAKESPEARE, Macbeth and King John; MILTON, Paradise Lost, Bk. II, and Lycidas; WORDSWORTH, Intimations of Immortality, The Leech Gatherer, Tintern Abbey, A Poet's Epitaph, The Fountain, Scorn not the Sonnet, and Two Voices are There; TENNYSON, In Memoriam, Guinevere, Tears, Idle Tears, The Splendor Falls on Castle Walls, Sweet and Low, Break, Break, and Crossing the Bar; SCOTT, Woodstock; HOPE, Simon Dale.

**LITERATURE.**

Introduction to English Literature.—Pancoast.

**COMPOSITION.**

1. Composition from models.—Alexander and Libby.

2. Impromptu compositions and four original essays on subjects to be assigned.

There will be no formal examination on this subject at the end of the year, but marks assigned for compositions written during the year will count as one paper at the final examinations.

In order to pass in this department, it is necessary above everything else that the candidate spell correctly and write fairly good English.

**NOTE.**—Students intending to take the Third year, must do certain work during the previous summer: 1. They must mount 50 specimens of weeds and collect the seeds of 25 specimens, to be named and handed to the Professor of Botany by the 1st October; 2. they must collect the data and do most of the investigation necessary for their theses, in order that the work may be completed not later than the end of the Christmas vacation.

*Special Courses—One to be taken by each Third year student.*

### I.—Agriculture.

Students intending to take this course must present a certificate of having spent two years at practical work with a good farmer, and submit to a practical test at the discretion of the Lecturer on Agriculture.

#### General Field Agriculture.

Soils, methods of cultivation, draining, manures, rotation of crops, adaptation of soils to different plants, seeds and seeding, growing and harvesting of crops, including a scientific and practical knowledge of the grasses and clovers found in Ontario, and all else pertaining to the soils and crops of this Province, with lectures on experimental work.

**Reading:** All works and selections prescribed for First and Second years; Storer's Agriculture, Vols. I and II; The Soil (King); additional books, bulletins, and reports as directed.

#### Live Stock.

1. **CATTLE:** The principal breeds of beef and dairy cattle, including Short-horns, Herefords, Aberdeen-Angus, Galloways, Sussex, Devons, Ayrshires, Jerseys, Guernseys, Holsteins, Crosses, and Grades; general characteristics, with emphasis on the strong and weak points, of each; principles and practice of breeding; foods, foddors, feeding, and management.

2. **SHEEP:** The principal breeds of sheep, including Shropshires, Oxford Downs, Southdowns, Hampshire Downs, Suffolks, Cotswolds, Lincolns, Leicesters, Dorset Horns and Merinos; the general characteristics, with the strong and weak points, of each as regards carcass, wool and mutton; breeding; food, feeding, and management of flock, ewes and lambs; also an exact and thoroughly practical knowledge of the different kinds of wool.

3. **SWINE:** Principal breeds of swine, including Berkshires, Yorkshires, Tamworths, Poland Chinas, Chester Whites, Duroc Jerseys, Suffolks and Victorias; general characteristics, with emphasis on strong and weak points of each; breeding; foods, feeding and management.

4. **HORSES:** Heavy-draught—Clydesdale, Shire, Suffolk Punch, and Percheron; Coach horses—Hackney, Cleveland Bay, etc.; roadsters; thoroughbreds; saddle horses; horse-breeding; education of horse; soundness; foods, feeding and management



5. **POULTRY**: Principal breeds of poultry, including Wyandottes, Plymouth Rocks, Javas, American Dominiques, Andalusians, Leghorns, Minorcas, Spanish, Brahmas, Cochins, Langshans, Hamburgs, Polish, French, Dorkings, India Game and Black-Red Game; poultry houses; food, feeding and management of poultry.

Reading: Stock Breeding (Miles); Live Stock Hand Books; Farm Live Stock of Great Britain (Wallace), Chaps. 3, 4, 5, 6, 7, and 17; The Business Hen (Rural Publishing Co., N. Y.); additional books, bulletins and reports as directed.

#### Biology.

1. **FUNGI**: Microscopic study of rust, smut, and other injurious fungi, with all available information as to remedies.

2. **INSECTS**: (1) Review of Second year work; (2) Further study of those species which attack farm and garden crops.

Reading: Economic Entomology (Smith); portions of Comstock's Entomology.

#### Forestry.

1. Lectures on the importance of forests, their effect on climate, etc.; kinds of trees, their occurrence, habits, and uses; raising trees from seed; planting and management of trees with a view to shelter, ornament, and economy.

Reading: Practical Forestry (Fuller).

#### Chemistry and Physics.

1. **AGRICULTURAL AND ANIMAL CHEMISTRY** as in chemical option.

2. **CHEMISTRY OF INSECTICIDES AND FUNGICIDES**: Preparation of copper sulphate, oxide and hydride of lime, ammonia, copper carbonate, sodium carbonate, potassium sulphide, and acetate of copper; physical and chemical properties of the substances used in the preparation of insecticides and fungicides; the preparation of insecticides and fungicides and the examination of their physical and chemical properties.

3. **AGRICULTURAL PHYSICS**: Laboratory work and lectures.

## II.—Dairying.

Students intending to take this course must present a certificate of having spent one season at work in a good butter or cheese factory, or of having taken a course of ten weeks in a dairy school.

#### Dairying.

Theory and practice in everything pertaining to the setting of milk, handling of milk and cream, milk-testing, butter-making, and the running of cream separators; cheddar cheese-making; the making of sweet curd cheese; pasteurization of milk; town and city milk supply; experimental work and original investigation; full courses of lectures and practical work; examinations in theory and practice of all branches of subject; the making of a prime article of both butter and cheese necessary in order to pass.

Reading : American Dairying (Gurler) ; Cheddar Cheese-Making (Decker) ; Milk-testing (Schenman) ; Milk, Butter, and Cheese (Oliver) ; The Farm and the Dairy (Sheldon) ; The Book of the Dairy (Fleischman) ; further reading and reference as directed.

**Bacteriology.**

Laboratory work and lectures ; bacteriological analysis of milk, butter and cheese ; pasteurization of milk and cream.

Text books : Bacteriology (Migula) ; Dairy Bacteriology (Russell).  
Reading and reference as directed.

**Chemistry.**

1. DAIRY CHEMISTRY : Composition of milk, butter, cheese, and whey ; determinations of specific gravity of milk ; determinations of total solids, moisture, ash, fat, casein, albumin, and sugar in milk, cheese and whey ; milk adulterants ; determination of the melting point of butter ; distinction between butter and oleomargarin ; recent investigations and results.

2. ANIMAL CHEMISTRY : Laboratory work and lectures as in chemical option ; science and practice in cattle feeding.

Reading : Analysis of Milk and Milk Products (Leffman and Beam) ; Manual of Cattle Feeding (Armsby) ; additional books and periodicals as directed.

**Live Stock.**

1. CATTLE : The principal breeds of cattle, including Shorthorns, Herefords, Aberdeen-Angus, Galloways, Sussex, Devons, Ayrshires, Jerseys, Guernseys, Holsteins, Crosses, and Grades ; general characteristics, with emphasis on the strong and weak points of each ; principles and practice of breeding ; foods, foddors, feeding, and management.

2. SWINE : Principal breeds of swine, including Berkshires, Yorkshires, Tamworths, Poland Chinas, Chester Whites, Duroc Jerseys, Suffolks, and Victorias ; general characteristics, with emphasis on strong and weak points of each ; breeding ; foods, feeding, and management.

3. POULTRY : Principal breeds of poultry, including Wyandottes, Plymouth Rocks, Javas, American Dominiques, Andalusians, Leghorns, Minorcas, Spanish, Brahmas, Cochins, Langshans, Hamburgs, Polish, French, Dorkings, Indian Game, and Black-Red Game ; poultry houses ; food, feeding, and management of poultry.

Reading : Cattle Breeding (Warfield) ; The Business Hen (Rural Publishing Co., N. Y.) ; additional books, bulletins, and periodicals as directed.

**III.—Horticulture.**

Students intending to take this course must present a certificate of having spent at least one year at practical work with a good fruit grower, market gardener, or florist, and a recommendation from the College Horticulturist as to ability and proficiency in the practice of horticulture during the first two years of his College course.

**Horticulture.**

**FRUIT GROWING :** 1. General Review of Second year lectures.

2. Laboratory work in pollination ; propagation of plants ; preparation of insecticides and fungicides ; management of pumps, nozzles, and other appliances for spraying ; laying out of orchards and fruit gardens ; classification and description of fruits ; making drawings of fruits.

Reading : American Fruit Culturist (Thomas), Amateur Fruit Grower (Green), Small Fruit Culturist (Fuller), Nursery Book (Bailey), and The Apple in North America (Bailey).

**VEGETABLE GARDENING :** 1. General review of Second year lectures.

2. Laboratory work in testing seeds and conditions favorable to germination ; transplanting seedlings ; forcing vegetable crops ; handling and storing vegetables ; planning, arrangement, and rotation of crops in garden ; making of hotbeds and cold frames, etc.

Reading : How to make the Garden Pay (Greiner), Vegetable Garden (Vilmorin), and Origin of Cultivated Plants (De Candolle).

**FLORICULTURE :** 1. Lectures based on work in laboratory and greenhouses.

2. Laboratory work in the preparation of soil for plants ; propagating plants ; study of the effects of atmosphere, temperature, and light on plants ; watering ; trimming ; training ; treatment of frozen plants ; resting plants ; making collections suitable for window, conservatory, hanging baskets, rockeries and flower beds ; arrangement of plants for effect.

Reading : Home Floriculture (Viek), and Practical Floriculture (Henderson).

**FORESTRY :** Lectures on the importance of forests, their effect on climate, etc. ; kinds of trees, their occurrence, habits, and uses ; raising trees from seed ; planting and management of trees with a view to shelter, ornament and economy.

Reading : Practical Forestry (Fuller).

**Botany.**

1. General review of First and Second year work, with "Spaulding's Introduction to Botany" as a text-book.

2. Systematic Botany and experimental plant physiology ; mounting of 100 plants ; collection and identification of seeds of 25 species of weeds.

3. Microscopic study of injurious fungi which affect orchard, garden, and greenhouse crops and plants.

4. Vegetable Histology : technique of microscope ; mounting and study of tissues, etc.

Reading : Experimental Plant Physiology (Oels and Macdougall) ; Physiological Botany for Gardeners (Sorauer) ; Fungi and Fungicides (Weed) ; Botany (Strasburger, Noll, Schenck, and Schimper) ; Text Book of Botany (Vines) ; Zimmerman's "Micro-Technique" ; additional books, bulletins, and periodicals as directed.

**Entomology.**

1. Review of Second year work.
2. Further study of species, especially those which attack orchard, garden, and greenhouse crops and plants.

Reading: Economic Entomology (Smith); Insects Injurious to Fruit (Saunders); portions of Comstock's Entomology; additional books and periodicals as directed.

Practical work to be done in afternoons; a record of practical work throughout the year to be kept; occasional examinations on reading and practical work to be held; and the whole record of daily work, practical examinations, and written examinations to be taken into account in determining the standing of students.

**IV.—Biology.****Botany.**

1. Review of First and Second year work, with Spaulding's "Introduction to Botany" as a text-book.
2. Systematic Botany; mounting of 100 plants; collection and identification of 25 species of weeds.
3. Experimental Plant Physiology; Laboratory work, with "Experimental Plant Physiology" by Oels and Macdougall, as a text-book.
4. Vegetable Histology; technique of microscope; mounting and study of tissues, etc.

Reading: Zimmerman's "Micro-Technique"; Strasburger, Noll, Schenck, and Schimper's Botany; Vines' Text Book of Botany; additional books and periodicals as directed.

5. Cryptogamic Botany and Plant Pathology: A laboratory course, supplemented by lectures—microscopic study of the diseases of plants; remedies, etc.; collection and identification of 25 species of injurious fungi.

Reading and reference: Fungi and Fungicides (Weed); British Uredineae and Ustilagineae (Plowright); British Fungous Flora (Massee); Myxogastres (Massee); Text Book of Botany (Vines); Outlines of the Classification of Plants (Goebel); Spotton, Part II; Manual of Botany (Gray); Comparative Anatomy of the Phanerogams and Ferns (De Barry); Mosses and Ferns (Campbell); Physiological Botany (Sachs); additional books and periodicals as directed.

**Zoology.**

1. Lectures and laboratory work, including dissection and critical examination of typical specimens of the main divisions of the animal kingdom.
2. Histology: Methods; imbedding, cutting, mounting, and study of specimens; laboratory with lectures and reference.

Reading: Zoology (Wright); Invertebrate Zoology (McMurrich); Biology (Parker); Biology (Huxley); Practical Zoology (Colton); Zootomy (Parker); additional books and periodicals as directed.

Dissecting Instruments, etc., to be provided by student, say 1 scalpel, 1 pair scissors (fine), 1 pair forceps, and 1 lens.



**V.—Bacteriology.****Bacteriology.**

1. Technique of microscope ; life history of bacterial cell ; form and classification of bacteria ; requirements and chemistry of bacteria ; staining ; preparation of culture media.
2. Laboratory work with pathogenic and non-pathogenic germs ; post mortem and microscopical examination.
3. Some special line of bacterial investigation, to be chosen with the approval of the Bacteriologist and pursued to his satisfaction, and a thesis written thereon, which thesis shall be based on original work and shall be a contribution to knowledge.

Reading : Bacteriology (Sternberg) ; Bakteriologie (Kramer) ; Dairy Bacteriology (Russell) ; additional books and periodicals as directed.

**Zoology.**

1. Lectures and laboratory work, including dissection and critical examination of typical specimens of the main divisions of the animal kingdom.
2. Histology : Methods ; imbedding, cutting, mounting, and study of specimens ; laboratory work with lectures.

Reading and reference : Zoology (Wright) ; Invertebrate Zoology (McMurrich) ; Biology (Parker) ; Biology (Huxley) ; Practical Zoology (Colton) ; Zootomy (Parker) ; Normal Histology (Huber) ; Histology (Shohr) ; Histology (Schafer) ; additional books and periodicals as directed.

**VI.—Chemistry and Physics.****Chemistry.**

1. ORGANIC CHEMISTRY : A course of 48 lectures.
2. INORGANIC CHEMISTRY : A course of 28 lectures.
3. AGRICULTURAL CHEMISTRY : The constituents of plants ; functions of leaves and roots ; germination ; plant development ; composition of the atmosphere and the soil ; physical properties of soils in relation to soil cultivation and plant growth ; nitrification ; farmyard and artificial manures ; application of manures to farm crops ; manurial constituents in crops ; characteristic composition of cereal, leguminous, and root crops ; composition of shrubs and trees ; feeding value of crops ; rotations ; crop residues ; recent investigations and results.
4. ANIMAL CHEMISTRY : Composition of the animal body and of fodders ; resorption ; circulation ; respiration ; determination of the digestibility and nutritive value of food and fodder ; formation of flesh and fat ; feeding for work, maintenance, fat, milk, and growth ; feeding standards ; albuminoid ratio ; recent investigations and results.
5. LABORATORY WORK :
  - a. Full course in qualitative analysis of bases and acids.
  - b. Gravimetric and volumetric analysis.

- c. Preparation of organic compounds.
- d. Carbon combustions.
- e. Determination of vapor density and boiling point.
- f. Nitrogen determinations.
- g. Analysis of water, soils, manures, fodders, dairy products, etc.

TEXT BOOKS: Agricultural Chemistry (Warington); Agriculture, Vols. I and II (Storer); Manual of Cattle Feeding (Armsby); Compounds of Carbon (Remsen); Inorganic Chemistry, Advanced Course (Remsen); Preparation of Organic Compounds (Fischer—Kling).

Reading: As prescribed by Professor of Chemistry.

### Physics.

- 1. Review of Second year work.
- 2. AGRICULTURAL PHYSICS: Lectures and laboratory work—analysis of soils with reference to texture,—sandy, clay, loamy, etc.; physical properties of soils of different textures; determination of water capacity and its relation to soil texture; soil in relation to heat; soil-water, its movements and methods of controlling and preserving it; drainage and cultivation; physics of the plant; osmosis, absorption, selection, and transpiration.
- 3. Reading: The Soil (King); How Crops Feed (Johnson); Molecules and the Molecular Theory (Risteen); additional books, bulletins and periodicals as prescribed by the Lecturer on Physics.

*Notes regarding Special courses. In all Special courses:*

- 1. A record of each student's practical work throughout the year will be kept.
- 2. A record of each student's reading, as tested from time to time, will also be kept.
- 3. Practical, as well as written, examinations will be held wherever such examinations are practicable.
- 4. Each student shall prepare a Thesis on some branch or department of the work in his special course. This Thesis must be based chiefly on original investigation and must be approved in order to pass. All Theses must be handed to committees of adjudication on or before the 1st March.
- 5. The Thesis and the whole record of daily work, reading, practical examinations, and written examinations, will be taken into account in determining the standing of each student.

Laboratory work in the afternoons is required of all Third year students.

All Third year students are to provide themselves with forceps, slides, and cover-glasses.

An Associate whose general standing would entitle him to take the Third year, but who has failed to reach the required percentage in English, may be admitted by passing a special examination on prescribed work in that subject.

## CURRICULUM IN MUSIC.

### Degree of Bachelor of Music.

The Degree of Bachelor of Music (Mus. Bac.) will be conferred by the University of Toronto upon students of Music, on compliance with the requirements of the curriculum in Music which may from time to time be prescribed by the Senate.

### Matriculation.

The candidate for the Degree of Bachelor of Music must pass the following examination of the University for a certificate of proficiency in general education :—

#### I. ENGLISH.

**ENGLISH GRAMMAR :** The main facts in the development of the language, Etymology and Syntax, including the logical structure of the sentence and the inflection, classification and elementary analysis of words.

**COMPOSITION :** An essay to which special importance will be attached, on one of several themes set by the examiners. In order to pass in this subject, legible writing, correct spelling and punctuation, and proper construction of sentences are indispensable. The candidate should also give attention to the structure of the whole essay, the effective ordering of the thought, and the accurate employment of a good English vocabulary. About two pages of foolscap is suggested as the proper length for the essay ; but quality, not quantity, will be mainly regarded.

**LITERATURE :** Such questions only shall be set as may serve to test the candidate's familiarity with, and intelligent and appreciative comprehension of, the prescribed texts. The candidate will be expected to have memorized some of the finest passages. In addition to the questions on the prescribed selections, others shall be set on a "sight passage" to test the candidate's ability to interpret literature for himself :—

#### 1900.

**LONGFELLOW :** *Evangeline*, *A Psalm of Life*, *Wreck of the Hesperus*, *The Day is Done*, *The Old Clock on the Stairs*, *The Fire of Driftwood*, *Resignation*, *The Warden of the Cinque Ports*, *Excelsior*, *The Bridge*, *A Gleam of Sunshine*.

**WORDSWORTH :** *The Education of Nature* ("Three years she grew"), "*She was a Phantom of delight*," *A Lesson* ("There is a flower, the Lesser Celandine"), *To the Skylark*, *The Green Linnet*, *To the Cuckoo*, *To the Daisy*,

and the following Sonnets, To a Distant Friend ("Why art thou silent"), England and Switzerland ("Two voices are there"), "Milton, thou shouldst be living at this hour," Westminster Bridge, The Inner Vision ("Most sweet it is, with unuplifted eyes"), "O Friend! I know not which way I must look," To Sleep, Within King's College Chapel.

1901.

TENNYSON: Elaine, Lady of Shalott, St. Agnes' Eve, Sir Galahad, Lotus-Eaters, Ulysses, Crossing the Bar, Early Spring, "You ask me why," "Of old sat Freedom," "Love thou thy land," the six interlude songs and "Tears, idle tears," in "The Princess."

1902.

SCOTT: Lay of the Last Minstrel.

II. ARITHMETIC.

ARITHMETIC: Elementary Rules, Fractions (Vulgar and Decimal), Interest, Discount, and easy problems in Stocks.

III. One of the following languages:—

1. GREEK.

Translation into English of passages from prescribed texts.

Translation at sight (with the aid of vocabularies) of easy Attic prose, to which special importance will be attached.

Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.

Translation from English into Greek of sentences and of easy narrative passages based upon the prescribed prose texts.

The following are the prescribed texts:—

1900: Selections from XENOPHON, Anabasis I, in White's Beginner's Greek Book (pp. 304-428) with the exercises thereon; HOMER, Iliad I.

1901: Selections from XENOPHON, Anabasis I, in White's Beginner's Greek Book (pp. 304-428) with the exercises thereon; HOMER, Iliad I.

1902: Selections from XENOPHON, Anabasis I, in White's Beginner's Greek Book (pp. 304-428) with the exercises thereon; HOMER, Iliad VI.

Two papers will be set: (1) Prescribed texts and translation at sight; questions on Grammar; (2) the translation of English into Greek.

2. LATIN.

Translation into Latin of English phrases and easy sentences to illustrate Latin accidence and the common rules of Latin syntax.

Translation into Latin of easy narrative English based upon the first twenty-five chapters of the prescribed Caesar.

Translation at sight (with the aid of vocabularies) from some easy prose author.

Translation from prescribed texts, with grammatical and other questions naturally arising from the extracts set for translation.



The following are the texts prescribed :—

- 1900 : VERGIL, Aeneid, Bk. II ; CAESAR, Bellum Gallicum Bk. V.  
 1901 : VERGIL, Aeneid, Bk. II ; CAESAR, Bellum Gallicum Bks. II, III.  
 1902 : Cornelius Nepos, Lives of Themistocles, Aristides and Hannibal ;  
 CAESAR, Bellum Gallicum, Bk. IV (omitting Chap. 17), and Bk. V, Chaps.  
 1 23 ; VERGIL, Aeneid, Bk. II (1 505).

Two papers will be set : (1) Translation of English into Latin. (2) Prescribed texts and translation at sight, with questions on Grammar, etc.

N.B.—The Roman method of pronouncing Latin is recommended.

### 3. FRENCH.

The candidate's knowledge of French will be tested by : (1) simple questions on grammar, (2) the translation of simple passages from English into French, (3) translation at sight of easy passages from modern French, and (4) an examination on the following texts :—

- 1900 : ENAULT, le Chien du Capitaine ; FEUILLET, la Fée.  
 1901 : DE MAISTRE, Voyage autour de ma chambre ; LABICHE, la Grammaire.  
 1902 : LAMENNAIS, Paroles d'un croyant, Chaps. VII and XVII ; PERRAULT, le Maître Chat ou le Chat Botté ; DUMAS, Un nez gelé, and la Pipe de Jean Bart ; ALPHONSE DAUDET, la Dernière classe, and la Chèvre de M. Seguin ; LEGOUVÉ, la Patte de dindon ; POUVILLON, Hortibus ; LOTI, Chagrin d'un vieux forçat ; MOLIÈRE, l'Avare, Acte III, sc. 5 (Est-ce à votre cocher . . . sous la mienne) ; VICTOR HUGO, Waterloo, Chap. IX ; ROUGET DE L'ISLE, la Marseillaise ; ARNAULT, la Feuille, CHATEAUBRIAND, l'Exilé ; THÉOPHILE GAUTIER, la Chimère ; VICTOR HUGO, Extase ; LAMARTINE, l'Automne ; DE MUSSET, Tristesse ; SULLY PRUDHOMME, le Vase brisé ; LA FONTAINE, le Chêne et le Roseau.

MADAME EMILE DE GIRARDIN, la Joie fait peur.

Two papers will be set : (1) Prescribed texts and translation at sight ; questions on Grammar ; (2) the translation of English into French.

### 4. GERMAN.

The candidate's knowledge of German will be tested by : (1) simple questions on grammar, (2) the translation of simple passages from English into German, (3) translation at sight of easy passages from modern German, and (4) an examination on the following texts :—

- 1900 : HAUFF, das kalte Herz, Kalif Storch.  
 1901 : LEANDER, Träumereien (selected by Van Daell).  
 1902 : GRIMM, Rotkäppchen ; ANDERSEN, Wie's der Alte macht, Das neue Kleid, Venedig, Rothschild, Der Bär ; ERTL, Himmelsschlüssel ; FROMMEL, Das eiserne Kreuz ; BAUMBACH, Nicotiana, Der Goldbaum ; HEINE, Lorelei, Du bist wie eine Blume ; UHLAND, Schäfer's Sonntagslied, Das Schloss am Meer ; CHAMISSO, Das Schloss Boncourt ; CLAUDIUS, Die Sterne, Der Riese Goliath ; GOETHE, Mignon, Erikönig, Der Sanger ; SCHILLER, Der Jungling am Bache.

LEANDER, Träumereien (selected by Van Daell), pp. 1-44.

Two papers will be set : (1) Prescribed texts and translation at sight ; questions on Grammar ; (2) the translation of English into German.

5. ITALIAN.

Elementary Grammar (Grandgent's Grammar and the Italian Principia recommended) ; translation into Italian of short English sentences ; and an examination on the following text :—

1899, 1900, and 1901 : DE AMICIS, Cuore (I Racconti mensili).

In lieu of the above a certificate of having passed the Form II. examination of the Education Department of Ontario or any subsequent examination in a High School, or Matriculation in Arts in any University in Her Majesty's Dominions, including one of the languages : Greek, Latin, French, German, Italian, will be accepted.

Certificates of having passed Part I. of Junior Matriculation will be accepted *pro tanto* for Matriculation in Music.

Candidates at the Junior Leaving or Junior Matriculation examination who obtain the necessary percentage in the subjects required for Matriculation in Music may, on petition to the Senate, be granted Matriculation in Music.

Special applications for Matriculation may be dealt with by the Senate.

The Senate may in the case of musicians of established reputation who apply for standing in the Faculty of Music, dispense with the Matriculation examination.

### Undergraduate Course.

In addition to Matriculation the candidate must have passed three examinations, theoretical and practical, before the degree of Bachelor of Music shall be granted.

All candidates must prove ability as practical musicians :—

- (a) As actual performers upon the pianoforte, organ or some orchestral instrument.
- (b) As vocalists with satisfactory knowledge of pianoforte accompaniment.

#### First Year.

##### THEORY OF MUSIC :

1. Harmony in three and four parts.
2. Counterpoint in two and three parts.
3. Musical History up to 1750.

##### PRACTICAL MUSIC :

Candidates shall be required to play—on the piano or some orchestral instrument—or sing :—

1. Test exercises of a technical character.
2. Two compositions (or portions of them), selected by the examiner.  
The shall also be required to play at the keyboard :—
  - (a) A four-part harmony upon a given figured bass.
  - (b) A simple chorale, or an accompaniment to a song, in a key other than that in which the piece is written.

**Second Year.**

## THEORY OF MUSIC :

1. Harmony in not more than five parts.
2. Strict Counterpoint (including the treatment of the various species in combination) in not more than four parts.
3. Double Counterpoint.
4. Fugue, and Canon, is not more than three parts.
5. Elements of Acoustics.
6. History of Music from 1750 to the present time.

## PRACTICAL MUSIC :

Candidates shall be required to play—on the piano or some orchestral instrument—or sing :—

- Two compositions (or portions of them), selected by the examiner.  
They shall also be required to play, at the keyboard, the following tests, etc. :—
1. A figured bass, to be filled up, making a piece of four-part harmony.
  2. A melody, to be harmonized in four parts.
  3. To modulate from one key to another, as asked for by the examiner.
  4. A piece of music, or an accompaniment to a song, to be transposed into a key named by the examiner.
  5. An extract of four-part vocal score.

**Third Year.**

## THEORY OF MUSIC :

1. Harmony in not more than six parts, including some original work in four or five parts.
2. Strict, and free, Counterpoint in not more than five parts, with illustrations of imitative work.
3. Canon, and Fugue with special reference to the Episode, in four parts.
4. A general review of the History of Music from the earliest period to the present time.
5. Musical forms, and analysis.
6. Instrumentation, and scoring for the various sections of a modern orchestra, with practical illustrations of the candidate's ability to put into full score a phrase or phrases from a Beethoven sonata or from a similar composition selected by the examiner.

7. Analysis of the full orchestral score of some classical work :—

1900 : SULLIVAN'S Golden Legend.

1901 : HAYDN : The Creation.

PRACTICAL MUSIC :

Candidates shall be required to play—on the piano or some orchestral instrument—or sing :—

Two or three compositions (or portions of them), selected by the examiner.

They shall also be required to play, at the key-board, the following tests, etc. :—

1. A melody to be harmonized in four parts.
2. A piece of music, or an accompaniment to a song, to be transposed into a key named by the examiner.
3. From a piece of vocal score.
4. To extemporize, in proper form, upon a given phrase.
5. From an orchestral score, and reproduce, as to pitch, the portions asked for.

In addition to the prescribed course for the Final examination, an original composition, either sacred or secular, will be required, containing five-part harmony, imitative counterpoint and four-part fugue with orchestral accompaniment and sufficiently long to occupy fifteen minutes in performance. This composition must be sent to the Registrar not later than May 1st.

Candidates for the degree may defer presenting this composition until a subsequent annual examination, in which case the fee for examination shall be \$10.

A certificate of having passed the examinations of the First and Second years of the affiliated College of Music will be accepted *pro tanto* in lieu of the First year examination.

The examination for the diploma of the affiliated College of Music will be accepted *pro tanto* in lieu of the First and Second year examinations.

The Senate may admit *ad eundem statum* undergraduates of other Universities after due inquiry as to the requirements demanded by the institutions in which the candidates obtained their standing.

Musicians of established reputation may be admitted to the degree of Bachelor of Music upon their submitting for the approval of the University examiner or examiners an original composition, consisting of any one of the following :—

1. An Oratorio.
2. A Cantata.
3. A Symphony.
4. An extended piece of Chamber Music.



**Examinations.**

The examinations will take place at times to be fixed by the Senate.

Applications, must be transmitted to the Registrar at times to be fixed by the Senate, and at the time of application the proper fee must be paid to the Bursar.

**Fees.**

Matriculation.....	\$10 00
Each examination subsequent to matriculation.....	10 00
For admission <i>ad eundem statum</i> .....	10 00
Degree of Mus. Bac.....	20 00

**Text Books.**

Stainer's Treatise of Harmony; Prout's Harmony; Hiles' Grammar of Music, Books I and II; Banister's Music; Bridge's Primer of Counterpoint; Prout's Counterpoint; Richter's Counterpoint (Franklin Taylor's edition); Cherubini's Counterpoint, Canon and Fugue; Prout's Double Counterpoint and Canon; Jadassohn's Canon and Fugue; Higg's Primer of Fugue; Prout's Fugue; Stainer's Primer of Composition; Prout's Musical Form; Ouseley's Musical Form; Prout's Fugal Analysis; Prout's Primer of Instrumentation; Niemann's Catechism of Musical Instruments; Berlioz on Instrumentation; Stone's Primer on Scientific Basis of Music; Sedley Taylor's Sound and Music; Sedley Taylor's Science of Music; Tyndall on Sound; Bonavia Hunt's History of Music; Naumann's History of Music; Parry's Summary of Musical History (Primer); Rockstro's History of Music; Articles in Grove's Dictionary of Music and Musicians bearing on the various subjects for examination.

Candidates are not restricted to the above list, which is only suggested. The paper work is judged irrespective of any particular author or school.

## CURRICULUM IN PEDAGOGY.

**Degree of Bachelor of Pedagogy.**

The degree of Bachelor of Pedagogy (B. Pæd.) is granted under the following conditions and regulations:—

1. The candidate shall hold (1) a degree in Arts, not being an honorary degree, from a University in the British Dominions; and (2) a permanent first-class or High School assistant's certificate, granted by the Education Department of Ontario.
2. The candidate shall pass an examination in Psychology and Ethics, with their applications to Pedagogy; the Science of Education; the History and Criticism of Educational Systems; School Organization and Management; Methods in English, Mathematics, Latin, and one of the following: Greek, Natural Sciences (Biology, Physics, and Chemistry), and French with German. Candidates holding a High School specialist's certificate may substitute for the foregoing examination in Methods, an examination in Methods in one of the following departments: (1) Classics; (2) Mathematics; (3) English and History; (4) Moderns and History; (5) Science.
3. The examination shall be held in May at the University of Toronto, or in any other locality in the Province chosen by the candidate and approved by the Senate, and under a presiding examiner appointed by the Senate, provided the candidate or candidates thereat defray the cost of the local examination. The candidate shall send notice to the Registrar of the University, not later than the first of April, of the locality he has selected.
4. The fee for the examination shall be twenty dollars; and, for the degree, ten dollars. Both fees shall be paid to the Registrar not later than the first day of April.
5. The following text-books are recommended:—  
 McLellan's Applied Psychology; Dr. W. T. Harris's The Psychological Foundations of Education; Dewey's Psychology; Titchener's Primer of Psychology; Halleck's Education of the Central Nervous System; Wundt's Outlines of Psychology; McLellan's Psychology of Number; Preyer's Mental Development of the Child; Tracy's Psychology of Childhood; Watson's Hedonistic Theories; Seth's A Study of Ethical Principles; Quick's Educational Reformers; Mahaffy's Old Greek Education; Spencer's Education; Fitch's Lectures on Teaching; Millar's School Management; Radestock's Habit in Education; Guyau's Education and Heredity; Fouillee's Education from a National Standpoint; Report of the United States Bureau of Educa-

tion on Secondary School Studies (1893); Laurie's Language and Linguistic Studies; Laurie's Primary Education; Galloway's Education, Scientific and Technical; Hinsdale's Teaching the Language Arts; Heath's Methods of Teaching Modern Languages; Gouin's Art of Teaching and Studying Languages.

### Degree of Doctor of Pedagogy.

The degree of Doctor of Pedagogy (D. Pæd.) is granted under the following conditions and regulations:—

1. (1) The candidate shall hold a degree in Arts, not being an honorary degree, from a University in the British Dominions; and a permanent certificate as specialist, granted by the Education Department of Ontario, in one of the following departments: Classics, Mathematics, English, French and German, English and History, Moderns and History, Science, Natural Science; or, in the case of a University teacher, an honor degree.
- (2) He shall also hold the degree of Bachelor of Pedagogy from this University, unless he has had at least seven years' experience in Ontario as teacher in a University, a High School or Collegiate Institute, or a Normal School or a Normal College.
- (3) He shall submit certificates of successful experience satisfactory to the Committee on Examinations.
2. The candidate who holds the degree of B. Pæd. from this University may, not less than two years after having taken the degree of B. Pæd., proceed to the degree of D. Pæd.
3. (1) The candidate shall pass an examination in Psychology and Ethics, with their applications to Pedagogy; the Science of Education; and the History and Criticism of Educational Systems.
- (2) He shall also submit through the University Registrar, on or before the first day in May of the year in which he presents himself for examination, a thesis on some pedagogical topic, embodying the results of original investigation conducted by himself. After the examiners have reported in favour of his answer papers and his thesis, he shall, on the requisition of the Registrar, furnish him with one hundred printed copies of the thesis on or before the first day of June of the same year. The printed thesis shall contain the report of the examiners, which will be furnished to the candidate by the Registrar.
4. The examination shall be held at the same time and under the same conditions as the examination for the degree of Bachelor of Pedagogy. The fee for the examination shall be forty dollars; and, for the degree, ten dollars. Both fees shall be forwarded by the candidate to the Registrar of the University not later than the first day of April, with his application and his certificates of successful experience.

5. The following text-books are recommended :—

James's Psychology ; Ladd's Outlines of Physiological Psychology ; Stout's Analytical Psychology ; Scripture's The New Psychology ; Titchener's Elements of Psychology ; Perez' First Three Years of Childhood ; Sully's Studies of Childhood ; Preyer's Mind of the Child ; Green's Prolegomena to Ethics ; Laurie's Comenius ; Laurie's Rise and Constitution of Universities ; Compayre's History of Education ; Stanley's Life of Dr. Thomas Arnold ; The Great Educators' Series ; Herbart's Science of Education ; Bain's Science of Education ; Thompson's Science of Teaching ; Fröbel's Education of Man ; Rousseau's Emile (ed. W. H. Payne) ; De Guimp's Pestalozzi ; the more recent contributions on the Educational Systems of Canada, England, the United States and Germany.

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At the examinations for degrees in Pedagogy the standard shall be as follows : (1) For pass, forty per cent. of the marks assigned to each paper, but candidates who avail themselves of the provision for specialists in section 2 of the Regulations for the degree of B. Ped., shall be required to make sixty-six per cent. of the marks assigned to the paper or papers in methods ; (2) for second class honors, sixty-six per cent. of the total marks for all the papers ; and (3) for first class honors, seventy-five per cent. of the total marks for all the papers.

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VICTORIA UNIVERSITY.  
(Federated.)

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### Victoria University.

Victoria University was founded by resolution of the Conference of the Methodist Church in Canada, held in Kingston in August, 1830. The institution was opened for students on the 18th of June, 1836, with the Rev. Matthew Ritchie, M.A., as Principal. On the 12th of October, 1836, letters patent were issued by His Majesty King William IV. incorporating the institution as a Seminary of Learning for the Province of Upper Canada, under the name of "The Upper Canada Academy."

In 1841, the Parliament of the United Provinces of Upper and Lower Canada, being now first constituted by Act of the Imperial Parliament with authority to grant such a Charter, at its first Session, held in the city of Kingston, passed an Act to incorporate the Upper Canada Academy under the name and style of "Victoria College," with power and authority to confer the degrees of Bachelor, Master, and Doctor of the various Arts and Faculties; which Act was assented to by the Governor-General on the 27th of August, 1841.

On the 21st of October, 1841, the Rev. Egerton Ryerson, M.A., having been appointed Principal, opened the first College session under the enlarged charter.

In the year 1844, the Rev. A. McNabb, D.D., succeeded the Rev. Dr. Ryerson as Principal, and occupied the office till 1849. At the close of his term the number of students in the College was 140.

In 1850 the Rev. S. S. Nelles, M.A., was appointed Principal, and addressed himself to the task of organizing and enlarging the College to the status and work of a University. In the years 1854-55 the Faculty of Medicine was added and established in Toronto. In 1860 the Faculty of Law was added, and, in 1871, the Faculty of Theology.

In the year 1883-84, a commission, appointed by the General Conference of the Methodist Church, arranged for the consolidation of Albert College, Belleville, with Victoria College, Cobourg, and legal effect was given to the consolidation by Act of the Legislature of Ontario, 47 Victoria, Chap. 93.

The corporate name was, by this Act, changed to "Victoria University." The Government of the University was vested in a Board of Regents, Chancellor, Vice-Chancellor and Senate. To these bodies was given power to affiliate outlying colleges, and full University powers in all Faculties were continued. Rev. S. S. Nelles, D.D., LL.D., as President, was *ex officio* first Chancellor, and William Kerr, Q.C., LL.D., was elected Vice-Chancellor.

In 1887, the Rev. S. S. Nelles, D.D., LL.D., died, and the Rev. N. Burwash, S.T.D., LL.D., was appointed President and Chancellor.

Under the provisions of the present charter the following colleges are affiliated in Arts with Victoria University: Albert College, Belleville; the Ontario Ladies' College, Whitby; Alma College, St. Thomas; Columbian Methodist College, New Westminster, B.C.

On the 12th November, A.D., 1890, under the provisions of the Revised Statutes of Ontario, chap. 230, and the Acts amending the same, Victoria University was, by proclamation of the Lieutenant-Governor, federated with the University of Toronto.

By the provisions of the Federation Act, the President of Victoria University, a representative of the Senate of Victoria University, and five representatives of the graduates in Arts become members of the Senate of the University of Toronto.

Six hundred and three graduates of Victoria University have been admitted to the standing and privileges of the degree of B.A., two hundred and twenty-five to those of M.A., nine hundred and seventeen to those of M.D., eighty-six to those of LL.B., and thirty-nine to those of LL.D.

On the 1st of October, 1892, the Faculty of Victoria Uni-



versity occupied their new buildings in the Queen's Park, Toronto, and the federation of Universities was practically consummated. The curriculum in Arts for all students of Victoria University is that prescribed by the Senate of the University of Toronto. The Faculty of Arts in Victoria University provides instruction in all subjects assigned by the Federation Act to University College. In other subjects the students of Victoria University will attend the lectures and laboratory practice of the University of Toronto.

Since federation, 129 students of Victoria College have been admitted to the B.A. degree in the University of Toronto.

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### Senate.

- REV. N. BURWASH, S.T.D., LL.D., *Chancellor*.  
 W. KERR, M.A., LL.D., Q.C., *Vice-Chancellor*.  
 REV. A. CARMAN, D.D., *General Superintendent*.  
 THE PROFESSORS OF THE FACULTY OF ARTS.  
 THE PROFESSORS OF THE FACULTY OF THEOLOGY.  
 THE MEMBERS OF THE BOARD OF REGENTS.  
 TWO REPRESENTATIVES OF ALBERT COLLEGE.  
 THE REPRESENTATIVE OF THE ONTARIO LADIES' COLLEGE.  
 THE REPRESENTATIVE OF ALMA COLLEGE.  
 THE REPRESENTATIVES OF GRADUATES IN ARTS.  
 THE REPRESENTATIVE OF GRADUATES IN MEDICINE.  
 THE REPRESENTATIVE OF GRADUATES IN LAW.  
 THE REPRESENTATIVE OF GRADUATES IN DIVINITY.  
 PROF. A. R. BAIN, LL.D., *Registrar*.  
 PROF. A. J. BELL, M.A., Ph.D., *Assistant-Registrar*.

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### Faculty of Arts.

- REV. N. BURWASH, S.T.D., LL.D., *President*.  
 REV. A. H. REYNAR, M.A., LL.D., *Dean, Gooderham Professor of English Literature*.  
 A. R. BAIN, M.A., LL.D., *Nelles Professor of Ancient History*.  
 REV. E. I. BADGLEY, B.D., LL.D., *Egerton Ryerson Professor of Ethics and Theistic Philosophy*.  
 A. P. COLEMAN, M.A., Ph.D. (Breslau), *Honorary Professor of Natural History and Geology*.  
 REV. F. H. WALLACE, M.A., B.D., *Professor of Biblical Greek*.

- A. J. BELL, M.A., Ph.D. (Breslau), *Macdonald Professor of the Latin Language and Literature.*  
 REV. JOHN BURWASH, M.A., D.Sc., *Massey Professor of the English Bible.*  
 L. E. HORNING, M.A., Ph.D., *Professor of German and Old English.*  
 REV. J. F. McLAUGHLIN, M.A., B.D., *Professor of Oriental Languages.*  
 A. L. LANGFORD, M.A., *Lecturer on Greek Language and Literature.*  
 J. C. ROBERTSON, B.A., *Lecturer on Greek Language and Philosophy.*  
 PELHAM EDGAR, Ph.D., *Lecturer on French Language and Literature.*  
 A. E. LANG, B.A., *Lecturer on German.*  
 E. MASSON, *Instructor in French.*  
 REV. E. I. BADGLEY, LL.D., *Secretary of Faculty.*

The courses of instruction in the Faculty of Arts in Victoria University are in all respects parallel with those of University College.

The work of the University Faculty forms an essential part of the course of instruction for all students in Arts of Victoria University.

**Religious Services.**

All students are expected to attend the public worship of God on the Lord's Day, at such churches as their parents or guardians may prefer. Morning prayers will also be held daily in the Chapel, at which all students are expected to be present.

Other religious services will be held at suitable times, to which all students are cordially invited.

**Residence.**

It is expected that a residence constructed upon approved modern principles, and affording healthful and comfortable accommodation for one hundred students will shortly be erected on the Victoria University grounds in the Queen's Park. In the meantime, carefully selected boarding houses will be licensed, in which board and rooms may be obtained at prices varying from \$3 to \$5 a week.

**Fees.**

Students in Arts will be subject to the regular fees on pp. 41-45.

In addition they will pay the following college fees on registration in the Faculty of Arts in Victoria University.

FIRST YEAR . . . . .	Any course or department . . . . .	\$36 00
SECOND YEAR . . . . .	Any course or department . . . . .	36 00
THIRD YEAR . . . . .	Chemistry and Mineralogy . . . . .	31 00
	Natural Sciences . . . . .	31 00
	Any other course or department . . . . .	36 00
FOURTH YEAR . . . . .	Chemistry and Mineralogy or Physics . . . . .	31 00
	Biology . . . . .	26 00
	Any other course or department . . . . .	36 00

The fees payable for partial courses will be the same as those required in University College.

**General Regulations.**

1. Students are admitted to registration in the Faculty of Arts on having passed the Matriculation examination prescribed by the University of Toronto, or on giving the Faculty satisfactory evidence of their ability to pursue the courses of study proposed.
2. All students are required to observe the general regulations of the University of Toronto and of Victoria University in regard to attendance on lectures and examinations.
3. Students are required to board in such houses as are licensed by the Faculty, except students residing with their parents, or with friends designated by their parents or guardians.

**Examinations.**

All students of Victoria University desiring to take the examinations in Arts will present themselves at the annual examinations of the University of Toronto. Such students are required to conform to all the general regulations prescribed by the Senate.

**Scholarships, Prizes, and Medals.**

All scholarships and prizes of the University of Toronto are open to students of Victoria University on the general terms prescribed on pp. 47-54, etc. This includes exemption from fees in Victoria as in University College.

The following scholarships are offered to students enrolled in Victoria University:—

- The Bell Scholarship, Third Year, Honor Classics.
- The Nelles " " " Honor Moderns.
- The Ames " First " Honor Moderns.
- The Chown " Third " Honor Philosophy.
- The J. C. Robertson Scholarship, First Year, Honor Classics.

The following prizes are offered for competition at the Victoria examinations of the Second and Third years respectively, to students of Victoria University (for conditions, see calendar of Victoria University):—

- The Webster Prize, the gift of J. G. Hodgins, LL.D., for English Literature of the Third year.
- The Hodgins Prize, the gift of J. G. Hodgins, Esq., LL.D., for English Literature of the Second year.
- The Wallbridge Prize for Biblical Greek in the Third year.
- The Carman Gould Prize for Hebrew of the Second year.
- The Ryerson Prize, the gift of J. G. Hodgins, Esq., LL.D., for New Testament History.
- The Punshon Prize for Valedictory Oration.
- The Massey Bursaries, for 1st and 2nd of the Third year in the English Bible.
- The W. J. Robertson Prize in Modern History.

The following medals will be awarded to students of Victoria University at graduation in Arts (for conditions of the award see-calendar of Victoria University):—

- The Prince of Wales Medals for proficiency in the General Course.
- The Aberdeen Silver Medal for the Highest Honor Standing at Graduation.
- The Edward Wilson Gold Medal in Classics.
- The W. E. Sanford Gold Medal in Mathematics.
- The J. J. McLaren Gold Medal in Moderns.
- The E. J. Sanford Gold Medal in Philosophy.
- The G. A. Cox Gold Medal in Natural Science.
- The S. H. Janes Silver Medals in the five preceding departments.

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### Faculty of Theology.

- REV. NATHANIEL BURWASH, S.T.D., LL.D., *President, Edward Jackson Professor of Biblical and Systematic Theology.*
- REV. ALBERT H. REYNAR, M.A., LL.D., *Professor of Ecclesiastical History.*
- REV. ERASTUS I. BADGLEY, B.D., LL.D., *Professor of Apologetics.*
- REV. FRANCIS HUSTON WALLACE, M.A., B.D., *George A. Cox Professor of New Testament Exegesis and Literature.*
- REV. JOHN BURWASH, M.A., D.Sc., *Massey Professor of the English Bible and Practical Theology.*
- REV. JOHN FLETCHER McLAUGHLIN, M.A., B.D., *Professor of Old Testament Exegesis and Literature.*
- REV. PROF. WALLACE, M.A., B.D., *Secretary of the Faculty.*

### Course of Study.

Instruction is provided in the subjects of the ordinary Conference Course, the course for the degree of S.T.L., and the course for the degree of B.D.

The course for S.T.L. is a three years' course, and presupposes the completion of the First year of the Arts course.

The course for B.D. is a higher three years' course, and presupposes the degree of B.A.

The Theological options allowed to students in Arts of the University of Toronto are furnished in this Faculty.

For details as to these courses of study, Honors, Prizes and Regulations, see the calendar of Victoria University, or apply to the Secretary of the Theological Faculty, Rev. Prof. Wallace, M.A., B.D., 95 Bedford Road.

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FEDERATED AND AFFILIATED COLLEGES.

### St. Michael's College.

St. Michael's College was established in 1852 by the Basilian Fathers from Annonay, France, at the request and under the patronage of the Most Rev. Dr. De Charbonnel, then Bishop of Toronto. For four years the College occupied the wing of St. Michael's Palace, on Church street. In 1856, a more suitable edifice was erected on the present site, part of which was the gift of the late Hon. John Elmsley. Since that time the building has been more than doubled, and the chapel enlarged and improved.

The object of the institution is to impart a thorough Catholic training, moral and intellectual, so as to fit young men for any position in life which they may wish to occupy.

The studies advancing steadily with the educational progress of the country, it was deemed advantageous for those studying for the liberal professions to have the College affiliated with the Provincial University. In 1881 this affiliation was effected upon a basis similar to that of several of the Catholic Colleges of England and Ireland with the University of London.

The course of study comprises, besides an Elementary department, three others, viz., Commercial, Classical, and Philosophical. In the latter department lectures are delivered in the subjects of the department of Philosophy as prescribed by the curriculum of the University of Toronto.

Special lectures are also delivered upon the History required in the curriculum of the University.

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#### The Faculty.

- REV. J. R. TEEFY, LL.D., C.S.B., *Superior*.  
 REV. M. MUNGOVAN, C.S.B., *Treasurer and Professor of Belles-Letters*.  
 REV. F. R. FRACHON, C.S.B., *Professor of Mental and Moral Science*.  
 REV. M. V. KELLY, B.A., C.S.B., *Professor of Rhetoric*.  
 REV. A. MARTIN, C.S.B., *Professor of Mathematics and Natural Philosophy*.

### *Wycliffe College.*

Wycliffe College was founded in 1877, being known at first as the Protestant Episcopal Divinity School. It was incorporated in 1879. In 1885 it was affiliated with the University of Toronto, and federated in 1890 upon the proclamation of the Federation Act.

Its object is the Theological training of candidates for the ministry of the Church of England in Canada and for the foreign Missionary field. Its work and methods are based upon the position of "distinctive Evangelical teaching" in Theology.

In the University and University College its students receive instructions in the prescribed subjects of the Arts' Course, as preliminary to the special study of Theology. The Theological Course extends over a period of three years.

The first two years of the Theological Course may, however, be taken concurrently with the Arts work of the University by means of the Theological options, and by following the schedule laid down in the calendar of the College.

Graduates in Arts may so combine the three years' work as to take the full Theological Course in two years.

The first building of the College was erected in 1882. The work is now carried on in the building completed in 1891, contiguous to the Queen's Park, and in proximity to the main building of the University of Toronto, with rooms for forty-four students, lecture rooms, library, chapel, dining hall, etc. Students have access to the University library, gymnasium, etc.

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**The Faculty.**

REV. J. P. SHERATON, D.D., LL.D. (PRINCIPAL), *Professor of Dogmatic Theology and of the Literature and Exegesis of the New Testament.*

REV. HENRY J. CODY, M.A., *Professor of the Literature and Exegesis of the Old Testament and of Ecclesiastical History.*

REV. DYSON HAGUE, M.A., *Professor of Liturgics, Homiletics and Pastoral Theology.*

———, *Professor of Apologetics and Patristics.*

———, *Instructor in Elocution.*

**Honorary Lecturers.**

REV. JOHN DE SOYRES, M.A. (late Hulsean Lecturer at the University of Cambridge), *Church History.*

REV. G. M. WRONG, M.A. (Professor of History in the University of Toronto), *Apologetics.*

REV. SEPTIMUS JONES, M.A., *Liturgics.*

REV. F. H. DUVERNET, B.D., *Pastoral Theology.*

*Chairman of Council.*

N. W. HOYLES, ESQ., B.A., Q.C.

*Representatives on the Senate.*

THE PRINCIPAL

HON. S. H. BLAKE, Q.C.

*Librarian.*

REV. PROFESSOR CODY, M.A.

*Registrar and Bursar.*

HERBERT MORTIMER, ESQ.

Rev.  
Rev.  
Rev.  
Rev.  
GEORGE  
J. F.

### Knox College.

Knox College was established at Toronto in 1844, as a theological seminary in connection with the Synod of the Presbyterian Church in Canada (Free Church), which had been organized in the same year. In 1858 it was incorporated by Act of Parliament. In 1861, in consequence of the union of the Synod of the Free Church and that of the United Presbyterian Church, as the Synod of the Canada Presbyterian Church, Knox College and the Theological Institute of the United Presbyterian Synod were united.

After several changes of location the present buildings on Spadina Avenue were erected in 1875. Knox College was affiliated with the University of Toronto in 1885, and federated in 1890, upon the proclamation of the Federation Act. In the University and University College such of its students as are not proceeding to a degree receive instruction in English, History, Logic and Rhetoric, Chemistry, Mental and Moral Philosophy and Hebrew, taking Latin and Greek in the Preparatory classes of Knox College. Most of the entrants in Theology have, however, completed a regular University course. The course in Theology extends over three years. A number of scholarships and prizes are offered for competition in each year. Theological options may be taken by students of the University in their Third and Fourth years.

### The Faculty.

- REV. WILLIAM CAVEN, D.D., LL.D. (Principal), *Professor of New Testament Literature and Exegesis.*  
 REV. WILLIAM McLAREN, D.D., *Professor of Systematic Theology.*  
 REV. GEORGE L. ROBINSON, Ph.D., *Professor of Old Testament Literature and Exegesis.*  
 REV. JAMES BALLANTYNE, B.A., *Professor of Apologetics and Church History.*  
 REV. J. J. A. PROUDFOOT, D.D., *Lecturer on Homiletics, Church Government, and Pastoral Theology.*  
 GEORGE LOGIE, B.A., *Tutor in Latin, Greek and English.*  
 J. F. EVANS, B.A., *Lecturer in Elocution.*

### *The School of Practical Science.*

In the Session of 1877 the Legislative Assembly gave its sanction to the establishment of a School of Practical Science on the basis proposed in the memorandum of the Minister of Education confirmed by the Lieutenant-Governor in Council on the 3rd day of February, 1877.

By the scheme thus approved of, the Government effected an arrangement with the Council of University College whereby the students of the School of Practical Science enjoyed full advantage of the instruction given by its professors and lecturers in all the departments of science which were embraced in the work of the School.

This arrangement was brought to an end in 1889 by the transfer of the departments in science above referred to from University College to the University of Toronto, under the operation of the University Federation Act.

In order that the students of the School might continue to enjoy the advantage of the instruction in the above departments, the Senate of the University of Toronto passed a Statute in October, 1889, affiliating the School to the University, which Statute was confirmed by the Lieutenant-Governor in Council on the 30th day of October, 1889.

By an Order-in-Council, approved by the Lieutenant-Governor, on the 6th day of November, 1899, a Principal was appointed, and the management of the School was entrusted to a council, composed of the Principal as chairman, and the Professors, Lecturers and Demonstrators appointed on the Teaching Faculty of the School.

There are five regular Departments of Instruction in each of which Diplomas are granted, viz. :—

1. Civil Engineering (including Sanitary Engineering).
2. Mining Engineering.

3. Mechanical and Electrical Engineering.
4. Architecture.
5. Analytical and Applied Chemistry.

The instruction given in each of these departments is designed to give the student a thorough knowledge of the scientific principles underlying the practice in the several professions, and also such a training as may make him immediately useful when he enters into active professional work.

#### Diploma.

The regular course in each department is of three years' duration, and leads to the Diploma of the School. The instruction is given partly in the lecture room and partly in the drafting rooms, laboratories and field. A certain amount of work is laid out for the long vacation. The course of study in each department is general, and beyond the selection of his department the student has no opportunity to specialize.

#### Degree of B. A. Sc.

After the general course is finished the Diploma of the School is granted, and the student is at liberty either to enter the active life of his profession, or to spend another year in special work. This year is called the fourth or post-graduate year. Students electing to proceed with their studies are allowed to select two subjects from an approved list, and to confine their whole attention to these subjects during the fourth year. The subjects on this list are such as require a large amount of time to be devoted to laboratory and other practical work. The advanced theoretical instruction is given either at the beginning or end of the working day, in order not to break up the time allotted to practical work. During this year the student is required to prepare a thesis on some subject connected with his work. The practical examinations are held by the School, while the written examinations and the examination of the theses are held by the University. After complying with all requirements, the candidate receives the degree of Bachelor of Applied Science (B.A. Sc.).



**Professional Degrees.**

Bachelors of Applied Science may, after three years spent in professional work, present themselves for the degrees of Civil Engineer (C.E.), Mining Engineer (M.E.), Mechanical Engineer (M.E.), or Electrical Engineer (E.E.), as the case may be, subject to the rules and regulations established by the University.

For regulations as to admission, etc., and details of the course of instruction see the Calendar of the School.

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**The Faculty.**

- J. GALBRAITH, M.A., M. Can. Soc. C.E., *Professor of Engineering (Chairman).*  
W. H. ELLIS, M.A., M.B., *Professor of Applied Chemistry.*  
A. P. COLEMAN, M.A., Ph.D., *Professor of Assaying and Metallurgy.*  
L. B. STEWART, O.L.S., D.T.S., *Lecturer in Surveying (Secretary).*  
C. H. C. WRIGHT, B.A.Sc., *Lecturer in Architecture.*  
T. R. ROSEBRUGH, M.A., Grad. S.P.S., *Lecturer in Electrical Engineering.*  
J. A. DUFF, B.A., Grad. S.P.S., *Lecturer in Applied Mechanics.*  
G. R. MICKLE, B.A., Grad. S.P.S., *Lecturer in Mining.*  
J. W. BAIN, B.A.Sc., *Fellow in Metallurgy and Assaying.*  
J. KEELE, B.A.Sc., *Fellow in Civil Engineering.*  
W. MINTY, B.A.Sc., *Fellow in Mechanical Engineering.*  
A. T. LAING, B.A.Sc., *Fellow in Surveying.*  
R. W. ANGUS, B.A.Sc., *Fellow in Electrical Engineering.*  
F. N. SPELLER, B.A.Sc., *Fellow in Analytical and Applied Chemistry.*
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### Trinity Medical College.

This Medical College was organized in 1850, and at first formed the Medical Faculty of the University of Trinity College. In 1856 it ceased to be a Faculty of that University. It has been in affiliation with the University of Toronto since 1877, in which year it was incorporated by a special Act of the Legislature, as an independent medical teaching body. Its curriculum embraces all the subjects required by the College of Physicians and Surgeons of Ontario.

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#### The Faculty.

- W. B. GEIKIE, M.D., C.M., D.C.L., F.R.C.S.E., L.R.C.P., London, Dean of the Faculty, *Professor of Principles and Practice of Medicine.*
- J. A. TEMPLE, M.D., C.M., M.R.C.S., Eng., *Professor of Obstetrics and Gynecology.*
- T. KIRKLAND, M.A., *Professor of General Chemistry and Botany.*
- C. W. COVERNTON, M.D., C.M., M.R.C.S., Eng., *Emeritus Professor of Medical Jurisprudence and Toxicology.*
- F. LE M. GRASSETT, M.B., C.M., Edin. Univ., F.R.C.S.E., M.R.C.S., Eng., *Professor of Principles and Practices of Surgery, and of Clinical Surgery.*
- W. T. STUART, M.D., C.M., Trin. Univ., and M.B., Tor. Univ., *Professor of Practical and Analytical Chemistry.*
- C. SHEARD, M.D., C.M., F.T.M.C., M.R.C.S., Eng., *Professor of Physiology and Histology and of Clinical Medicine.*
- G. S. RYERSON, M.D., C.M., L.R.C.P., L.R.C.S., Edin., *Professor of Ophthalmology and Otology.*
- L. TESKEY, M.D., C.M., M.R.C.S., Eng., *Professor of Anatomy and of Clinical Surgery.*
- J. L. DAVISON, B.A., Tor. Univ., M.D., C.M., M.R.C.S., Eng., *Professor of Clinical Medicine.*
- G. A. BINGHAM, M.D., C.M., Trin. Coll., M.B., Tor. Univ., *Professor of Applied Anatomy, and Associate-Professor of Clinical Surgery.*
- N. A. POWELL, M.D., C.M., Trin. Coll., M.D., Bellev. Hos. Med. Coll., N.Y., *Professor of Medical Jurisprudence and Toxicology, Lecturer on Clinical Surgery, and Surgical Appliances.*

- D. G. GORDON, B.A., Tor. Univ., M.D., C.M., Trin. Univ., R.C.S. & P., Edin., L.F.P. & S., Glasgow, *Professor of Sanitary Science, and Lecturer on Clinical Medicine.*
- E. B. SHUTTLEWORTH, Phar. D., Trin. Univ., F.C.S., *Professor of Materia Medica and Pharmacy.*
- H. B. ANDERSON, M.D., C.M., F.T.M.C., *Professor of Pathology, Curator of Museum, and in charge of Trinity Microscopic Path. Lab'y., Toronto Gen. Hosp.*
- D. J. G. WISHART, F.A., Tor. Univ., M.D., C.M., L.R.C.P., London, *Senior Demonstrator of Anatomy, and Lecturer on Laryngology and Rhinology.*
- A. BAINES, M.D., C.M., F.T.M.C., L.R.C.P., London, *Associate-Professor of Clinical Medicine.*
- J. T. FOTHERINGHAM, B.A., Tor. Univ., M.D., C.M., Trin. Univ., *Lecturer on Therapeutics and the Theory and Practice of Prescribing, and Lecturer on Clinical Medicine.*
- C. A. TEMPLE, M.D., C.M., F.T.M.C., *First Senior Assistant Demonstrator of Anatomy.*
- C. B. SHUTTLEWORTH, M.D., C.M., F.T.M.C., *Second Senior Assistant Demonstrator of Anatomy.*
- C. TROW, M.D., C.M., Trin. Univ., F.T.M.C., L.R.C.P., London, *Clinical Lecturer on Diseases of the Eye and Ear.*
- W. H. PEPLER, M.D., C.M., F.T.M.C., L.R.C.P., London, *Assistant in Pathology.*
- F. FENTON, M.D., C.M., F.T.M.C., *Assistant in Histology.*
- J. McMASTER, B.A., M.D., C.M., } *Assistants in Practical Anatomy.*
- B. Z. MILNER, M.D., C.M., }

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**Summer Session.**

The regular Summer Session teaching staff.

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### Ontario Medical College for Women.

The Woman's Medical College was established in 1883. Instruction is given in all subjects required by the College of Physicians and Surgeons of Ontario for admission to a license to practise, and also in all subjects required by the University of Toronto for examination in the Faculty of Medicine. The Woman's Medical College was affiliated with the University of Toronto in 1890.

The building, recently erected, is situated on Sumach street, between Gerrard and Spruce streets.

For further particulars as to instructions, etc., see the Annual Announcement of the College.

#### The Faculty.

- R. B. NEVITT, B.A., M.D., *Dean of Faculty, Professor of Clinical Surgery.*  
 J. T. DUNCAN, M.D., C.M., *Professor of Anatomy, and Lecturer on Medical Psychology.*  
 A. R. PYNE, M.B.  
 A. STOWE GULLEN, M.D., C.M., *Professor of Diseases of Children.*  
 JAS. F. W. ROSS, M.D., C.M., *Professor of Gynecology.*  
 D. J. GIBB WISHART, B.A., M.D., C.M., *Secretary of the Faculty, Professor of Ophthalmology, Otology, Rhinology, and Laryngology.*  
 T. F. McMAHON, M.D., C.M., *Professor of Principles and Practice of Medicine and Clinical Medicine.*  
 G. B. SMITH, M.D., C.M., *Professor of Materia Medica, Pharmacy, and Therapeutics.*  
 J. MACCALLUM, B.A., M.D., C.M.  
 H. T. MACHELL, M.B., *Professor of Obstetrics.*  
 N. A. POWELL, M.D., C.M., *Professor of Surgery.*  
 W. B. THISTLE, M.D., *Assistant-Professor of the Diseases of Children.*  
 G. S. CLELAND, M.B., *Assistant-Professor of Anatomy.*  
 B. E. MCKENZIE, B.A., M.D., C.M., *Lecturer on Applied Anatomy, and Assistant-Professor of Surgery (Orthopedics).*  
 R. S. TYRRELL, M.B., *Professor of Medical Jurisprudence.*  
 L. M. SWEETNAM, M.D., C.M., *Assistant-Professor of Clinical Surgery.*



- SUSANNA P. BOYLE, M.D., C.M., *Professor of Pathology and Histology.*  
G. CHAMBERS, B.A., M.B., *Professor of Chemistry, and Lecturer on Diseases of the Skin.*  
LELIA A. DAVIS, M.B., *Assistant in Anatomy.*  
E. B. SHUTTLEWORTH, *Lecturer on Bacteriology.*  
JENNIE GRAY, M.D., C.M., *Assistant-Demonstrator of Anatomy, and Demonstrator of Gynecology.*  
R. J. DWYER, M.B., *Lecturer in Physical Diagnosis.*  
A. B. EADIE, M.D., C.M., *Professor of Physiology.*  
J. A. CREASOR, B.A., Tor., M.D., C.M., McGill, *Lecturer in Chemistry.*  
IDA W. LYND, M.D., C.M., Trin., *Assistant in Anatomy.*  
JOHN STENHOUSE, M.A., B.Sc., Edin., M.B., Tor., *Lecturer on Biology.*  
CHAS. B. SHUTTLEWORTH, M.D., C.M., Trin., *Demonstrator of Practical Chemistry.*  
W. F. BRYANS, M.D., *Lecturer on Sanitary Science.*  
HAROLD C. PARSONS, B.A., Tor., M.D., C.M., Trin., M.R.C.S. and L.R.C.P., Lond., *Lecturer in Clinical Microscopy.*

### Royal College of Dental Surgeons of Ontario.

This institution was incorporated in 1868, with power to examine and issue license to practise as a dentist in the province. In connection with the College a School of Dentistry was established in 1875 for the instruction of students in their professional work.

#### The Faculty.

- J. BRANSTON WILMOTT, D.D.S., M.D.S., *Professor of Operative Dentistry and Dental Prosthetics.*
- LUKE TESKEY, L.D.S., M.D., C.M., M.R.C.S., Eng., *Professor of Principles and Practice of Medicine and Surgery, as applied in Dentistry.*
- W. T. STUART, M.D., C.M., *Professor of Chemistry.*
- W. EARL WILMOTT, D.D.S., L.D.S., *Clinical Professor of Operative Dentistry and Dental Technique.*
- FRED. J. CAPON, D.D.S., L.D.S., *Professor of Crown and Bridge Work.*
- A. PRIMROSE, M.B., C.M., Edin., *Professor of Visceral Anatomy and Physiology.*
- JOHN J. MACKENZIE, B.A., *Professor of Histology, Bacteriology, and Comparative Dental Anatomy.*
- HAROLD CLARK, D.D.S., L.D.S., *Professor of Dental Materia Medica and Therapeutics.*
- W. T. STUART, *Professor of Anatomy.*  
*Lecturer on Dental Jurisprudence.*
- A. E. WEBSTER, D.D.S. L.D.S., *Demonstrator of Dental Technique and Prosthetics.*
- W. P. COHOE, B.A., *Demonstrator of Chemistry.*
- F. G. N. STARR, M.B., *Demonstrator of Anatomy.*
- J. BRANSTON WILMOTT, D.D.S., *Dean of the Faculty.*
- W. E. WILMOTT, D.D.S., *Superintendent.*

College Building, 93 College Street, Toronto.

The Royal College of Dental Surgeons was affiliated with the University of Toronto in 1888, and shortly thereafter an examination for the degree of Doctor of Dental Surgery was instituted in the University. For Curriculum, see p. 204.

### Ontario College of Pharmacy.

The Council of the College of Pharmacy, the bi-ennially elected governing body of the practising pharmacists of the Province of Ontario, began in 1882 to give instruction in the various subjects necessary for license for druggists. The College building, situated in St. James' Square, was erected in 1886, and the Faculty re-organized and extensive additions made to the buildings in 1891. In the same year affiliation was entered into with the University of Toronto. For Curriculum, see p. 207. For details as to laboratory and other courses, preliminary qualifications, etc., see Annual Calendar of the College, which may be had by addressing Isaac T. Lewis, Registrar-Treasurer, Ontario College of Pharmacy, Toronto, Ontario.

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### The Faculty.

- CHARLES F. HEEBNER, Ph.G. (N.Y.), Phm.B. (Tor.), *Dean, Professor of Pharmacy, Pharmaceutical Chemistry and Dispensing, Director of Pharmaceutical Laboratory.*
- A. Y. SCOTT, B.A. (Tor.), M.D., C.M. (Trin.), *Professor of Theoretical Chemistry and Botany.*
- J. T. FOTHERINGHAM, B.A., M.B. (Tor.), M.D., C.M. (Trin.), *Professor of Materia Medica and Pharmacognosy.*
- GRAHAM CHAMBERS, B.A., M.B. (Tor.), *Professor of Analytical Chemistry and Toxicology, Director of Chemical Laboratory.*
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### Ontario Agricultural College.

The institution known as the "Ontario Agricultural College and Experimental Farm" is situated about a mile to the south of the city of Guelph, in the centre of an extensive agricultural and noted stock-raising district, readily accessible by rail from all parts of the province. The farm consists of 550 acres, about 400 of which are cleared. It is composed of almost every variety of soil, and hence is well suited for the purpose for which it was selected.

The instruction given at the institution is embraced under two heads, a course of study and a course of apprenticeship. The latter is required of all First and Second year students in the autumn, winter and spring terms, during which they are employed in rotation in each of six departments of practical farm labour. The regular course of study is for two years, at the end of which time an Associate Diploma is granted by the College.

Holders of the Associate Diploma who obtain a certain standing in the theoretical and practical work of the first two years, may remain for a third year. In 1888 the College was affiliated with the University of Toronto, and an examination for the degree of Bachelor of the Science of Agriculture was instituted, to which only students of the Third year in the Ontario Agricultural College are admitted. For curriculum see p. 209.

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#### Officers.

- JAMES MILLS, M.A., LL.D., *President.*  
J. H. PANTON, M.A., F.G.S., *Professor of Biology and Geology.*  
A. E. SHUTTLEWORTH, B.A.Sc., *Professor of Chemistry.*  
J. H. REED, V.S., *Professor of Veterinary Science.*  
J. H. DEAN, B.S.A., *Professor of Dairy Husbandry.*



- J. B. REYNOLDS, B.A., *English and Mathematics.*  
W. RENNIE, *Farm Superintendent.*  
C. A. ZAVITZ, B.S.A., *Experimentalist.*  
G. E. DAY, B.S.A., *Agriculturist.*  
H. L. HUTT, B.S.A., *Horticulturist.*  
F. C. HARRISON, B.S.A., *Bacteriologist.*  
R. HARCOURT, B.S.A., *Assistant Chemist.*  
J. F. CLARK, B.S.A., *Assistant Resident Master.*  
R. F. HOLTERMAN, *Apiculturist.*  
L. G. JARVIS, *Manager and Lecturer, Poultry Department.*  
CAPTAIN WALTER CLARKE, *Instructor in Drill and Gymnastics.*  
G. A. PUTNAM, *Stenographer.*  
A. MCCALLUM, *Bursar.*

## The Toronto College of Music.

F. H. TORRINGTON, *Director.*

The Toronto College of Music, situated on Pembroke Street, was incorporated in 1890, and was affiliated with the University of Toronto in the same year. A curriculum for examinations and Degree in Music in the University has been instituted (see p. 218). The course of study for graduation extends over a period of three years. For further particulars, see the Annual Announcement of the College.

### Teaching Staff.

- F. H. TORRINGTON, F. S. WELSMAN, W. E. FAIRCLOUGH, T. C. JEFFERS, JOHN BAYLEY, MISS SULLIVAN, MISS HAMILTON, MRS. LEE, MRS. HOWSON, MISS GRAHAM, ALICE MANSFIELD, MUS. BAC., H. M. MARTIN, MUS. BAC., MISS TAIT, MISS E. HUSBAND, MISS BIRNIE, MISS KENNEDY, MISS LANDELL, *Piano.*
- F. H. TORRINGTON, W. E. FAIRCLOUGH, T. C. JEFFERS, MRS. HOWSON, *Organ.*
- F. H. TORRINGTON, W. H. ROBINSON, W. J. A. CARNAHAN, T. C. JEFFERS, MADAME LUCY FRANKLEIN, MISS NORA HILLARY, MISS C. A. WILLIAMS, MISS DUNDAS, MISS GRAHAM, *Vocal.*
- FRANK S. WELSMAN, MISS HELEN MOORE, W. E. FAIRCLOUGH, *Theory.*
- JOHN BAYLEY, W. DONVILLE, MISS MARGARET TAYLOR, *Violin.*
- W. J. OBERNIER, *Viola.*
- PAUL HAHN, *Violoncello.*
- J. GOWAN, *Contra Basso.*
- H. GOWAN, *Piccolo.*
- MR. ROBSON, *Flute.*
- A. G. RUSSELL, *Oboe.*
- J. KELLY, *Bass Clarinet.*
- MR. JOHNSON, *Bassoon.*
- J. WALDRON, *Horn, Cornet and Trumpet.*
- J. SLATTER, *Slide Trombone.*
- DR. H. M. CANLYLE, *Principal College School of Expression.*
- MISS LILLIAN BURNS, *Associate Teacher School of Expression.*

- F. R. SMITH, *Euphonium and Tuba.*  
 C. RIDDY, *Tympani and Percussion Instruments.*  
 MISS O'GRADY, *Harp.*  
 F. H. TORRINGTON, *Quartette and Ensemble Playing.*  
 F. H. TORRINGTON, J. WALDRON, *Orchestral and Band Playing, and the Art of Conducting.*  
 FRANK S. WELSMAN, *Harmony, Counterpoint, Fugue, Canon, Composition and Orchestration.*  
 F. H. TORRINGTON, T. C. JEFFERS, *Church Music, Oratorio, Choir and Chorus Practice.*  
 T. C. JEFFERS (*Tonic Sol-fa and Staff Notation*), *Sight Singing and Public School Music.*  
 F. H. TORRINGTON, *The Art of Accompanying.*  
 Lectures on Elementary Subjects, Musical History, Acoustics, Vocal Physiology, Vocal Hygiene, etc., will be delivered during the session.

#### Lecturers.

- JAMES LOUDON, M.A., LL.D., *Professor in the University of Toronto, Acoustics.*  
 FRANK WELSMAN, *Harmony, Form and Analysis, Musical History and Biography.*  
 T. C. JEFFERS, *Elementary Theory of Music.*  
 F. H. TORRINGTON, *Normal Training Class for Teachers.*  
 DR. H. M. CARLYLE, *Director College School of Expression, English Literature, Dramatic Art and Physical Development.*

## Toronto Conservatory of Music.

EDWARD FISHER, *Musical Director.*

The Toronto Conservatory of Music, incorporated in 1886, and affiliated with the University of Toronto in 1896, now occupies its new buildings, at the corner of College Street and University Avenue.

Each season of forty weeks opens on September 1st, and closes with the following June. The courses of study for graduation extend over a period of three or more years, according to the proficiency of the student. Students are prepared for University Examinations leading to degrees in Music, for particulars of these Examinations see the Curriculum, page 214, of this Calendar.

### Teaching Staff

- EDWARD FISHER, A. S. VOGT, RUDOLF RUTH, J. W. F. HARRISON, V. P. HUNT, DONALD HERALD, A.T.C.M., MAUD GORDON, A.T.C.M., SARA E. DALLAS, F.T.C.M., Mus. Bac., MRS. J. L. NICHOLS, FRANCES S. MORRIS, A.T.C.M., MRS. M. B. HEINRICH, ANNIE JOHNSON, A.T.C.M., BELLA M. GEDDES, F.T.C.M., EDITH M. CRITTENDEN, A.T.C.M., MAY L. KIRKPATRICK, A.T.C.M., *Pianoforte.*
- EDWARD FISHER, A. S. VOGT, J. W. F. HARRISON, SARA E. DALLAS, F.T.C.M., Mus. Bac., MAY HAMILTON, A.T.C.M., *Organ.*
- RECHAB TANDY, H. N. SHAW, B.A., NORMA REYNOLDS, MRS. J. W. BRADLEY, ALICE DENZIL, ANNIE HALLWORTH, A.T.C.M., MRS. H. W. PARKER, A.T.C.M., *Singing.*
- J. HUMFREY ANGER, Mus. Bac., Oxon., F.R.C.O. (Eng.), *Theory.*
- BERNHARD WALTHER, MRS. B. DRECHSLER ADAMSON, LENA M. HAYES, A.T.C.M., *Violin and Viola.*
- RUDOLF RUTH, *Violoncello.*
- SANDFORD LEPPARD, *Pianoforte Tuning.*
- JOHN GOWAN, *Contra-Basso.*
- J. CHURCHILL ARLIDGE, *Flute.*



WILLIAM FORDER, *Oboe, Saxophone, Clarinet, Bassoon.*

JOHN WALDRON, *Cornet, French Horn, Slide Trombone.*

FREDERICK SMITH, *Euphonium and Tuba.*

L. N. WATKINS, *Guitar.*

MISS LILLIE COTIAM, *Mandolin.*

S. H. PRESTON, *Sight-Singing, Rudiments of Music, and Public School Music.*

A. S. VOGT, *Improvisation (Organ).*

J. W. F. HARRISON, *Service Playing (Organ).*

EDWARD FISHER, *Ensemble Playing.*

JOHN WALDRON, *Orchestral and Band Playing.*

EDWARD FISHER and other members of the staff, *Church Music, Oratorio, Choir and Chorus Practice, and the Art of Conducting.*

A. T. CRINGAN, *Sight Singing, and Elementary Musical Theory.*

J. HUMFREY ANGER, *Harmony, Counterpoint, Canon and Fugue, Form in Composition, Instrumentation, Acoustics.*

W. H. SHERWOOD, *Examiner in Pianoforte.*

EMILIO AGRAMONTI, *Examiner in Singing.*

H. N. SHAW, B. A., MISS NELLY BERRYMAN, *Elocution, Oratory, Voice Culture, Physical Culture, Recitation, Delsarte, Philosophy of Expression, Dramatic Art.*

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Lectures on Musical History and Biography, Aesthetics of Music, Analysis of Classical Works, Acoustics, Anatomy and Hygiene of the Vocal Organs, Health Principles and other relevant subjects are delivered during the session.

#### Lecturers.

P. H. BRYCE, M. A., M. D., DR. G. STERLING RYERSON, EDWARD A. SPILSBURY, M. D., C. M., DR. G. R. McDONAGH, *Physiology and Anatomy of the Vocal Organs.*

J. HUMFREY ANGER, *Harmony, Counterpoint, Musical History.*

REV. PROF. CLARK, M. A., *English Literature.*

WILLIAM HOUSTON, M. A., *Shakespeare.*

Also lectures on appropriate subjects by other members of the staff.

### Ontario Veterinary College.

This institution was established in 1862, for the purpose of providing facilities for instruction in Veterinary Science. After various changes in buildings and equipment, necessitated by the increasing number of students, the present College building, situated at 40 Temperance Street, was erected in 1889. Affiliation with the University of Toronto took place in 1897. A curriculum of study leading to a degree is under consideration by the Senate.

#### The Faculty.

- PROF. ANDREW SMITH, V.S., EDIN., F.R.C.V.S., AND HON. ASS. R.C.V.S.  
(Principal), *Diseases of Domesticated Animals.*
- T. THORBURN, M.D., EDIN., *Veterinary Materia Medica.*
- JOHN A. AMYOT, M.B., TOR., *Animal Physiology.*
- PROF. ANDREW SMITH, V.S., AND ASSISTANTS, *Clinical Instructors.*  
*Chemistry.*
- J. T. DUNCAN, M.D., V.S., HON. ASS. R.C.V.S., *Anatomy.*
- J. CAVEN, M.D., L.R.C.P., LOND., *Pathology and Normal Histology.*
- C. H. SWEETAPPLE, V.S., *Veterinary Obstetrics and Diseases of Cattle.*
- S. SISSON, V.S., *Demonstrator of Anatomy.*
- D. KING SMITH, M.B., *Practical Microscopy and Bacteriology.*



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APPENDIX.

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The University of Toronto.

REGISTER OF STUDENTS, 1899-1900.

A. Students in Arts of the University of Toronto, University College, and Victoria University.

First Year.

Alexander, F. V.	Grimsby.	Carrier, Miss G. B.	Toronto.
Allen, Miss A. W.	Toronto.	Carson, E. J.	Charléville.
Allen, H. H.	Toronto.	Cates, W. G.	Toronto.
Allison, W. L.	Stardale.	Caulfield, A. H. W.	Toronto.
Amos, Miss F. R.	Aurora.	Cheney, A. O.	Tunbridge Wells, Eng.
Anderson, Miss E. L.	St. Thomas.	Chipman, A. L.	Berwick, N. S.
Archer, Miss M. A.	Petrollea.	Clare, D. R.	Chapman.
Archer, A. E.	St. Catharines.	Coates, E. W. S.	Prescott.
Archer, W. R.	St. Catharines.	Cochrane, A. R.	Brantford.
Armstrong, A. E.	Toronto.	Cochrane, R. B.	Brantford.
Anger, C. E.	Elora.	Coffin, E. A.	Toronto.
Aylesworth, R. P.	Kintore.	Cohen, A.	Toronto.
Badgley, F. N.	Toronto.	Coleman, J. C.	Toronto.
Baker, E. I.	Brantford.	Connor, Miss E.	Chatterton.
Banwell, H. S.	Toronto.	Coulter, J.	Milverton.
Bastedo, Miss E. B.	Toronto.	Craick, W. A.	Port Hope.
Bell, Miss J. M.	Tavistock.	Cranston, D. L.	Caledon East.
Bell, J. M.	Toronto.	Crockett, E.	Cookstown.
Bell, J. R.	Owen Sound.	Cudmore, C.	Lunley.
Bell-Smith, F. M.	Toronto.	Cunningham, J. W.	Toronto.
Bennett, F. J. H.	St. Catharines.	Darling, C. W.	Toronto.
Bertram, M.	Toronto.	Day, W. H.	Powles Corners.
Bibby, Miss M. V.	Brighton.	Deane, G. H.	Millbrook.
Biggs, S. P.	Toronto.	Denholme, J. M.	Blenheim.
Bilton, Miss E. M.	Toronto.	Dickensior, J.	Allenwood.
Bingham, C. B.	Aylmer.	Dickson, Miss E. M.	Goderich.
Bishop, E. S.	Brampton.	Dickson, Miss J. G.	Goderich.
Blackstock, W. G.	Toronto.	Dobson, F. H.	Chesley.
Block, Miss R.	Toronto.	Downing, Miss M.	Fournier.
Bray, W. C.	Wingham.	Doyle, Miss F. I.	Beulah, Man.
Broder, F. H.	Morrisburg.	Duncan, Miss B. A.	Emery.
Brodie, W. P.	Toronto.	Easson, Miss J. M.	Toronto.
Brown, Miss F. E.	Toronto.	Finlay, W. A.	Kincardine.
Brown, T. E.	Kinkora.	Fowler, J. H.	Watford.
Bull, J. J.	Galt.	Franklin, H.	Junctown.
Burt, Miss A.	Paris.	Fraser, Miss J. A.	St. Thomas.
Burwash, N. A.	Toronto.	Fudger, R. B.	Toronto.
Cairns, K.	Port Elgin.	Galbraith, Miss H.	Belleville.
Carpenter, E. H.	Toronto.	Gilbert, W. E.	Southampton.

## First Year—Continued.

Gilchrist, D. A. ....	Chatsworth.	Morris, T. E. W. ....	Elm Grove.
Gillespie, H. H. ....	Toronto.	Moss, Mrs. R. M. H. ....	Toronto.
Gilmour, C. H. ....	Toronto.	Mott, Miss C. L. ....	Norwich.
Gould, C. I. ....	Cobourg.	Mullin, S. A. ....	Hamilton.
Grant, A. W. ....	Moose Creek.	McClintock, D. T. ....	Jackson.
Gray, G. H. ....	Toronto.	McDiarmid, F. A. ....	Fingal.
Gray, N. R. ....	Ailsa Craig.	Macdonald, Miss M. A. ....	Glenarne.
Green, T. ....	Toronto.	McEvoy, R. ....	Weston.
Green, W. T. ....	Agincourt.	McFarlane, W. G. ....	Toronto Junction.
Greig, W. C. ....	Almonte.	MacGregor, J. P. ....	Toronto.
Haith, J. M. ....	Dunnville.	McHugh, M. W. ....	Streetsville.
Hall, J. B. ....	Peterboro.	McKay, R. G. ....	Kintore.
Hamilton, A. E. ....	Toronto.	Mackay, W. M. ....	Thamesford.
Hamilton, R. J. ....	Sand Hill.	McKee, G. W. ....	Oldcastle.
Hardy, E. ....	Toronto.	McKee, W. W. ....	Toronto.
Hargrave, T. A. ....	Medicine Hat, Assa.	Mackenzie, A. W. ....	Toronto.
Hedley, J. W. ....	Duncrief.	Mackenzie, E. W. ....	Galt.
Hedley, J. W. ....	Canfield.	Mackintosh, J. C. ....	Madoc.
Helgasan-Baldwin O. P. ....	Parry Sound.	McKinley, Miss A. R. ....	Seaforth.
Hills, A. J. ....	Toronto.	McLaughlin, R. P. ....	Cumberland.
Hockley, E. W. ....	Rat Portage.	MacLean, A. ....	Chatham.
Hodgson, G. S. ....	Toronto.	McLean, Miss I. ....	Mayfair.
Honeywell, F. H. ....	Skead's Mills.	McMahen, Miss M. M. ....	London.
Houston, Miss J. ....	Chatham.	McRae, A. ....	Galt.
Hughson, J. E. ....	Halifax, N. S.	Near, W. P. ....	St. Mary's.
Hull, J. D. ....	Guysboro, N. S.	Nelles, R. B. ....	Toronto.
Hunt, A. C. ....	Toronto.	Nesbitt, E. ....	Toronto.
Hunter, Miss M. R. ....	Wiarion.	Neville, H. ....	Toronto.
Hutchison, A. W. ....	Port Rowan.	Newton, S. T. ....	Violet Hill.
Hutton, W. W. ....	Detroit.	Nichol, W. L. ....	Wilton Grove.
James, W. G. ....	Lawrencetown, N. S.	Nicholas, A. ....	Iconium, Asia Minor.
Johnston, D. E. ....	Coleraine.	Nixon, W. B. ....	Toronto.
Kappele, D. ....	Hamilton.	Oliver, E. H. ....	Eberts.
King, Miss B. ....	Whitby.	Orr, J. S. ....	St. Thomas.
Klotz, W. C. ....	St. Catharines.	Pack, Miss D. M. ....	Toronto.
Lackner, Miss V. A. ....	Hamilton.	Parker, Miss A. G. ....	Toronto.
Lamb, Miss C. E. R. ....	Toronto.	Parker, Miss B. N. ....	Toronto.
Lawrence, C. H. ....	Orillia.	Paterson, E. R. ....	Toronto.
Little, W. H. ....	London.	Pattee, H. G. ....	Ottawa.
Livingston, W. W. ....	Listowel.	Peers, Miss E. L. E. ....	Woodstock.
Loree, W. H. ....	Grand Valley.	Phelan, T. N. ....	O'Sullivan's Corners.
Lougheed, W. J. ....	Forest.	Phillips, Miss M. M. ....	Rat Portage.
Luke, I. G. ....	Toronto.	Prior, C. W. ....	St. Catharines.
Marshall, Miss M. E. ....	Toronto.	Pumaville, M. F. ....	Kent Bridge.
Martin, J. A. ....	Exeter.	Redfern, Miss E. L. ....	Owen Sound.
Mason, J. A. C. ....	Toronto.	Reid, J. E. ....	Ospringe.
Mason, J. H. ....	Toronto.	Rejebbian, N. H. ....	Iconium, Asia Minor.
May, Miss A. ....	London.	Richardson, E. ....	Essex.
Mertens-Desfours, Miss M. ....	Hamburg, Ger.	Robinson, Miss E. A. ....	St. Catharines.
Meyer, Miss G. E. ....	East Toronto.	Robinson, T. J. ....	Seaforth.
Middleton, Miss E. E. ....	Toronto.	Roebuck, J. R. ....	Toronto.
Moore, D. R. ....	Rossmount.	Rolls, A. M. ....	Esquesing.
Moore, Miss M. W. ....	Madoc.	Rolph, A. H. ....	Toronto.
Morris, A. W. ....	Algonac, Mich.	Rothwell, W. ....	Ferguson's Falls.
		Rqwat, J. A. ....	Simcoe.

## First Year—Continued.

Rumble, I. A. ....	Alma.	Thompson, G. A. ....	St. Mary's.
Russell, A. ....	Toronto.	Thompson, W. H. ....	Toronto.
Rutherford, W. H. ....	Sand Hill.	Thomson, A. ....	Bendale.
Seldon, Miss E. G. ....	Ingersoll.	Tilton, E. V. ....	Tilsonburg.
Seldon, Miss L. M. ....	Ingersoll.	Twiss, A. T. ....	Glencoe.
Seldon, Miss M. A. ....	Ingersoll.	VanWyck, J. R. ....	Toronto.
Shaver, Miss F. ....	Woodstock.	Wahl, F. R. ....	Bournemouth, Eng.
Skinner, Miss L. A. ....	Toronto.	Walker, E. B. ....	Toronto.
Smith, C. C. ....	Brampton.	Walker, W. O. ....	Ingersoll.
Smith, G. E. ....	East Toronto.	Wallace, H. T. ....	Hamilton.
Smith, Miss K. ....	London.	Wallace, Miss M. L. ....	Toronto.
Soule, J. A. ....	Niagara Falls.	Ward, Miss A. L. ....	Lindsay.
Sparling, G. ....	St. Mary's.	Webster, W. V. ....	Galt.
Sprung, W. L. ....	Hilton.	West, F. W. ....	Toronto.
Stacey, A. G. ....	Little Britain.	Westacott, Miss F. E. ....	Toronto.
Stanley, A. P. ....	Toronto.	Wilkin, J. W. ....	Harriston.
Stephens, C. T. ....	Collingwood.	Wilson, C. L. ....	Toronto.
Stewart, R. M. ....	Sandringham.	Wilson, J. L. ....	Atwood.
Stratton, R. D. ....	Toronto.	Wood, W. R. ....	Tara.
Street, Miss I. M. ....	Toronto.	Woods, I. H. ....	Leesboro.
Symington, H. J. ....	Sarnia.	Wright, Miss A. S. ....	Britannia.
Tapscott, Miss C. L. ....	Port Hope.	Wright, Miss B. ....	San Francisco, Cal.
Taylor, O. F. ....	Toronto.	Wright, J. A. ....	London.
Thomas, A. ....	Wardsville.	Younge, R. J. ....	Glencoe.

## Second Year.

Adams, A. H. ....	Whitby.	Buller, F. J. ....	Toronto.
Addison, W. H. F. ....	Toronto.	Burton, E. F. ....	Toronto.
Aitchison, W. W. ....	Seaforth.	Butt, R. H. ....	Alliston.
Amy, W. L. ....	Oakland.	Campbell, D. G. ....	Harrington.
Armstrong, F. ....	Iroquois.	Campbell, R. J. ....	Wallacetown.
Ashworth, E. M. ....	Toronto.	Campbell, W. ....	Mitchell.
Atkinson, G. F. N. ....	Wardsville.	Carson, P. A. ....	London.
Austin, Miss H. M. ....	Toronto.	Cassidy, R. A. ....	Toronto.
Aylesworth, A. F. ....	Toronto.	Chapman, F. M. ....	Audley.
Baker, A. ....	Nottawa.	Clark, G. M. ....	St. Mary's.
Barber, F. L. ....	Waterford.	Cole, Miss F. ....	Toronto.
Barnes, C. L. ....	Toronto Junction.	Colwell, A. S. ....	Tara.
Barr, Miss C. I. ....	Renfrew.	Comber, W. T. ....	Bobcaygeon.
Barton, K. W. ....	Toronto.	Coney, F. M. ....	Toronto.
Beatty, M. J. ....	Fergus.	Conlin, Miss E. E. ....	Madoc.
Beer, J. H. ....	Dutton.	Cook, H. M. ....	S. River.
Belfry, C. A. ....	Stayner.	Covert, A. P. C. ....	Grand Manan, N.B.
Bennett, Miss M. ....	St. Thomas.	Coyne, J. B. ....	St. Thomas.
Benoliel, H. ....	St. Catharines.	Crane, Miss A. E. ....	Toronto.
Bonnar, H. A. M. ....	Bolton.	Cruz, A. ....	Mimico.
Brett, R. H. ....	Alliston.	Crystal, D. S. ....	Toronto.
Bridgland, M. P. ....	Fairbank.	Currie, D. H. ....	Rosemont.
Broadfoot, F. W. ....	Guelph.	Curts, H. E. ....	Utterson, N.J.
Brophey, F. E. ....	Brantford.	Daniels, W. S. ....	Ancaster.
Brown, E. P. ....	Toronto.	Darling, Miss L. ....	Schenectady, N.Y.
Buchanan, M. A. ....	Zurich.	Davidson, D. J. ....	Belhaven.
Buley, T. M. ....	Toronto.	Deroche, H. M. P. ....	Napanee.

## Second Year—Continued.

Dever, A. W. ....	Teeswater.	Munro, Miss M. K. ....	Toronto.
Dixon, S. F. ....	Colborne.	MacColl, A. ....	Inglewood.
Donaldson, W. ....	Toronto.	McCord, T. ....	Belmont.
Dredge, Miss D. E. ....	Aylmer.	McCormick, R. J. ....	Trowbridge.
Eadie, G. ....	Point Edward.	McCulloch, E. A. ....	Marmora.
Embree, M. H. ....	Toronto.	Macdonald, Miss C. ....	Wingham.
Engler, C. ....	Henfryn.	Macdonald, Miss J. E. ....	Stanley's Mills.
Fisher, A. I. ....	Christie.	McFarland, G. F. ....	Markdale.
Forrest, Miss J. W. ....	Toronto.	McGibbon, C. P. ....	Brampton.
Foster, R. F. ....	Watford.	McIntyre, R. J. ....	Toronto.
Francis, Miss A. B. ....	Mitchell.	McIrvine, C. L. ....	Burford.
Fraser, J. M. ....	London.	McKay, D. ....	Stayner.
Goodhue, H. E. ....	Danville, Que.	McKeracher, D. A. ....	Dutton.
Godland, M. E. ....	Zimmerman.	McLaren, W. W. ....	Columbus.
Grainger, H. A. ....	Walkerton.	MacLean, J. ....	Lucknow.
Green, S. J. ....	Bury's Green.	McLean, K. ....	Strathburn.
Greene, A. W. ....	Ottawa.	McMartin, J. J. ....	New Westminster, B. C.
Gundry, Miss M. H. ....	Aylmer.	McNeill, A. ....	Presque Isle.
Hackney, G. A. ....	Farquhar.	McPhedran, A. G. ....	Wanstead.
Hamilton, W. H. ....	Toronto.	McPherson, G. A. ....	Smithville.
Hanley, W. J. ....	Midland.	McTaggart, A. ....	Burgoyne.
Hannon, R. M. ....	Stratford.	Nash, Miss M. A. ....	St. Thomas.
Harris, Miss R. H. ....	Goderich.	Parsons, J. E. ....	Fairbank.
Hastings, H. S. ....	Toronto.	Petch, J. A. ....	Griersville.
Hedley, W. P. ....	Duncrief.	Pettie, M. ....	Belmont.
Henderson, A. ....	Berlin.	Porter, G. E. ....	Keene.
Henning, W. P. ....	Smithville.	Potter, B. ....	Paisley.
Higgs, W. ....	Crossland.	Potvin, F. P. ....	Midland.
Hogg, F. D. ....	Ottawa.	Powell, Miss M. E. ....	Toronto.
Howard, A. L. ....	Toronto.	Robertson, J. E. ....	Toronto.
Hutchison, Miss W. A. ....	Toronto.	Robertson, Miss J. T. A. ....	Toronto.
Ingram, W. H. ....	St. Thomas.	Rogers, W. P. ....	Dummer.
Irwin, H. W. ....	Toronto.	Rowland, C. E. ....	Mount Albert.
Isbester, A. J. ....	Ottawa.	Rutherford, F. J. ....	Orville.
Jackson, Miss S. E. ....	London.	Ryan, F. ....	Camden East.
Jones, A. E. ....	Port Elgin.	Rymal, J. W. ....	Ryckman's Corners.
Keefe, R. D. ....	Iroquois.	Schlichter, W. C. ....	Washington.
Kerr, A. S. ....	Toronto.	Shenstone, N. S. ....	Toronto.
Ketchen, H. B. ....	Brucefield.	Shepherd, C. H. ....	Toronto.
Kinder, B. A. ....	Strathroy.	Simpson, E. ....	Mooreville.
Knight, C. E. ....	Napanee.	Simpson, J. M. ....	Peterboro.
Konkle, H. N. ....	Campden.	Simpson, W. ....	Midland.
Kylie, E. J. ....	Lindsay.	Sissons, C. B. ....	Barrie.
Langlois, Miss H. H. ....	Toronto.	Smallman, J. E. ....	London.
Lazier, H. L. ....	Hamilton.	Smillie, R. ....	Bluevale.
Lockhart, E. H. ....	St. Helens.	Smith, A. C. ....	Toronto.
Lousley, J. A. G. ....	Trafalgar.	Smith, Miss A. M. ....	Whitby.
Lucas, F. G. T. ....	Vancouver.	Sprout, G. A. ....	Shelburne.
Martyn, H. G. ....	Welcome.	Stafford, W. E. ....	Dunnville.
Masters, C. ....	Niagara-on-the-Lake.	Staples, Miss L. L. ....	Bethany.
Miller, J. A. ....	Greenbank.	Stillman, E. F. ....	Campbellford.
Millyard, J. A. J. ....	Clinton.	Steele, S. G. ....	Toronto.
Millyard, W. A. ....	Clinton.	Stephen, J. W. ....	Epsom.
Mooney, W. T. ....	Morpeth.	Taylor, W. E. ....	St. Mary's.
Mulcahy, J. T. ....	Orillia.		



## Second Year—Continued.

Telford, M. . . . .	Owen Sound.	White, T. R. . . . .	Strathnairn.
Thompson, B. W. . . . .	Warren.	Whyte, J. M. . . . .	Toronto.
Thomson, A. E. M. . . . .	Elimville.	Wicher, Miss F. M. . . . .	Toronto.
Urquhart, D. W. S. . . . .	Toronto.	Wigg, Miss H. E. . . . .	Oshawa.
Wagg, W. W. . . . .	Mt. Albert.	Wilcox, E. M. . . . .	Owen Sound.
Wallace, S. A. . . . .	Wick.	Wilkinson, A. T. . . . .	Brantford.
Ward, Miss C. . . . .	Cobourg.	Wilson, C. J. . . . .	Milverton.
Watson, H. W. . . . .	Horning's Mills.	Wilson, W. J. . . . .	Dundas.
Watson, W. O. . . . .	Toronto.	Winchester, Miss M. I. . . . .	Toronto.
Watt, Miss M. . . . .	Guelph.	Wood, F. H. . . . .	Port Hope.
Webb, D. . . . .	Brighton.	Wood, W. H. . . . .	Dixon's Corners.
Webster, W. H. W. . . . .	Be le Ewart.	Woods, F. W. . . . .	Toronto.
Wetherell, J. E. . . . .	Strathroy.	Woodsworth, Miss C. M. . . . .	Woodstock.
Whelihan, J. A. . . . .	St. Mary's.	Young, Miss A. M. . . . .	Toronto.
White, Miss B. B. . . . .	Toronto.		

## Third Year.

Allen, W. K. . . . .	Burlington.	Dyment, C. V. . . . .	Copetown.
Anderson, W. . . . .	Toronto.	Elmslie, W. . . . .	Galt.
Arkell, W. H. . . . .	Aylmer.	Fairchild, A. H. R. . . . .	Toronto.
Armstrong, R. A. . . . .	Toronto.	Farewell, F. L. . . . .	Drayton.
Baird, Miss M. M. J. . . . .	Toronto.	Ferguson, G. A. . . . .	Binbrook.
Beal, N. R. . . . .	Toronto.	Fisher, J. W. . . . .	Winnipeg, Man.
Birmingham, A. H. . . . .	Toronto.	Fitzgerald, C. R. . . . .	Ottawa.
Bollert, Miss M. L. . . . .	Guelph.	Flagg, Mrs. E. L. . . . .	Bellwood.
Bourne, C. K. . . . .	St. Thomas.	Fleming, Miss E. M. . . . .	Brockville.
Brown, F. E. . . . .	Galt.	Fleming, Miss M. I. . . . .	Markham.
Bryan, Miss F. M. . . . .	Toronto.	Flintoft, E. P. . . . .	Sarnia.
Butterworth, Miss I. S. . . . .	Windsor.	Fox, J. W. . . . .	Toronto.
Caldecott, Miss I. . . . .	Toronto.	Freleigh, A. J. . . . .	Bloomfield.
Campbell, A. C. . . . .	Dominionville.	Gall, Miss A. M. . . . .	Toronto.
Cheyne, J. G. . . . .	Hamilton.	Garvey, C. . . . .	London.
Chown, Miss M. L. . . . .	Toronto.	Gibson, J. J. . . . .	Goderich.
Clare, A. N. W. . . . .	Preston.	Gillespie, J. H. R. . . . .	Alvinston.
Cockburn, Miss C. . . . .	Toronto.	Glass, W. A. . . . .	Richmond Hill.
Cole, Miss A. S. . . . .	Toronto.	Good, W. C. . . . .	Brantford.
Coleman, N. F. . . . .	Spokane, Wash.	Gooderham, H. F. . . . .	Toronto.
Connor, R. N. E. . . . .	Toronto.	Graham, Miss E. M. . . . .	Toronto.
Cooper, E. H. . . . .	Clinton.	Graham, H. D. . . . .	Bradford.
Cornish, G. A. . . . .	Chatham.	Grant, Miss C. C. . . . .	Orillia.
Cotton, T. H. . . . .	Violet Hill.	Gray, E. A. . . . .	Waubuno.
Cragg, W. J. M. . . . .	Brighton.	Greig, P. A. . . . .	Almonte.
Creighton, Miss E. . . . .	Toronto.	Hall, Miss F. G. . . . .	Napanee.
Cunningham, J. D. . . . .	Embro.	Harcourt, F. Y. . . . .	Welland.
Davidson, J. G. . . . .	Union.	Harrison, Miss C. M. . . . .	Thorndale.
deBangy, P. J. . . . .	Guernsey.	Harrison, W. G. . . . .	Glencoe.
Dickenson, E. U. . . . .	North Glanford.	Hastie, J. J. . . . .	Dromore.
Dickson, Miss A. I. . . . .	Fenelon Falls.	Hedley, R. W. . . . .	Canfield.
Dobson, E. C. . . . .	Chesley.	Herity, J. O. . . . .	Moira.
Donovan, W. J. . . . .	Lansdowne.	Hill, A. C. . . . .	Ottawa.
Dromgole, W. J. . . . .	London.	Howe, E. L. . . . .	Pakenham.
Dundas, Miss A. . . . .	Toronto.	Hughes, Miss H. M. . . . .	Toronto.
Dundas, Miss L. C. . . . .	Toronto.	Hume, R. D. . . . .	Spanish River.

Jame  
 John  
 John  
 Jones  
 Jones  
 Kay,  
 Keith  
 Kelli  
 Kilgo  
 Kinn  
 Laidl  
 Lang,  
 Lang,  
 Lang,  
 Marti  
 Mason  
 Mason  
 Merc  
 Miche  
 Miller  
 Millm  
 Misen  
 Mitch  
 Mitch  
 Moris  
 Morris  
 Morris  
 Moyla  
 Mueller  
 McBea  
 McCal  
 McDor  
 McLeo  
 McNei  
 McPhe  
 Nasmit  
 Noble,  
 Noble,  
 Osterh  
 Parsons  
 Patters  
 Patters  
 Potter,  
 Price, T.  
 Rennie,  
 Ritchie,  
 Rivers,  
 Robinsc  
 Ross, A

Abraham  
 Alexand  
 Alexand  
 Allison,

## APPENDIX.

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## Third Year—Continued.

James, J. A. ....	Carleton Place.	Rushbrook, W. F. ....	Toronto.
Johnston, J. H. ....	Fingal.	Sanders, Mrs. F. B. ....	Toronto.
Johnston, R. H. ....	Toronto.	Sanders, A. B. ....	Sutton West.
Jones, Miss F. E. ....	Port Perry.	Savary, T. W. ....	Annapolis Royal, N. S.
Jones, L. E. ....	St. Thomas.	Scott, J. R. S. ....	Toronto.
Kay, G. F. ....	Virginia.	Scott, Miss L. E. ....	Windsor.
Keith, A. W. ....	Toronto.	Shenstone, S. F. ....	Toronto.
Kellington, H. E. ....	Trowbridge.	Simpson, B. A. ....	Trenton.
Kilgour, D. E. ....	Guelph.	Simpson, J. J. W. ....	Whitechurch.
Kinear, Miss E. E. ....	Toronto.	Sinclair, H. M. ....	Toronto.
Laidlaw, R. S. ....	Wilton Grove.	Smith, A. ....	Morpeth.
Lang, H. ....	Eagle.	Smith, H. H. ....	Scotland.
Lang, Miss M. M. ....	Toronto.	Smith, W. A. ....	Almonte.
Martin, S. T. ....	Chatham.	Smith, W. B. ....	Caistorville.
Mason, Miss L. M. ....	Perth.	Sowler, Miss N. ....	Aylmer.
Mason, Miss M. E. ....	Toronto.	Spark, G. ....	Petherton.
Meredith, W. R. ....	London.	Spence, W. J. ....	Peterboro.
Michell, R. B. ....	Perth.	Sprott, R. J. ....	Collingwood.
Miller, S. L. ....	Varency.	Stewart, G. M. ....	Toronto.
Millman, R. M. ....	Toronto.	Stewart, J. F. M. ....	Harriston.
Misner, A. P. ....	Welland.	St. John, A. N. ....	Sunderland.
Mitchell, A. N. ....	Enniskillen.	Straith, Miss R. I. ....	Toronto.
Mitchell, J. W. ....	Toronto.	Sullivan, Miss B. G. ....	Toronto.
Morison, F. ....	Toronto.	Sylvester, Miss A. ....	Toronto.
Morris, W. M. ....	Elm Grove.	Telford, R. ....	Owen Sound.
Morrison, W. ....	Ashgrove.	Thom, D. J. ....	Pickering.
Moylan, T. V. ....	Toronto.	Thompson, W. H. ....	Toronto.
Mueller, P. W. ....	Toronto.	Tobey, W. M. ....	Brighton.
McBean, J. W. ....	Hamilton.	Trumpour, H. R. ....	Dorland.
McCallum, Miss K. ....	Stratford.	Wainwright, P. H. ....	Orillia.
McDonald, Miss G. ....	Chatham.	Walker, E. M. ....	Toronto.
McLeod, A. H. ....	Clinton.	Watson, E. H. A. ....	Bradford.
McNeill, J. A. ....	Toronto.	Waver, Miss E. C. ....	Halifax.
McPherson, J. L. ....	Forest.	Wegg, Miss C. S. ....	St. Thomas.
Nasmith, G. G. ....	Toronto.	Whillans, J. A. ....	Ilderton.
Noble, F. ....	Toronto.	Whitely, L. R. ....	Clinton.
Noble, J. K. ....	Toronto.	Whiteside, N. ....	Toronto.
Osterhout, J. H. ....	Chatham.	Willson, H. G. ....	Toronto.
Parsons, Miss A. E. ....	Toronto.	Wilson, A. S. ....	Merritton.
Patterson, J. ....	Thamesford.	Wilson, G. H. ....	Collingwood.
Patterson, R. B. ....	Creemore.	Wilson, N. L. ....	Brampton.
Potter, W. A. ....	King Creek.	Wilson, R. J. ....	Newton Robinson.
Price, T. W. ....	Port Granby.	Wilson, W. G. ....	Newton Robinson.
Rennie, W. ....	Guelph.	Woolryche, Miss H. G. B. ....	Toronto.
Ritches, J. W. P. ....	Halifax.	Wright, Miss M. L. ....	Toronto.
Rivers, G. W. W. ....	Sombra.	Yemen, Miss J. F. ....	Ripley.
Robinson, S. R. ....	Markham.	Young, G. M. ....	Belmont.
Ross, A. M. ....	Clifford.		

## Fourth Year.

Abraham, H. E. ....	Whitby.	Anderson, T. H. P. ....	Aurora.
Alexander, Miss H. B. ....	Galt.	Anderson, F. W. ....	Toronto.
Alexander, W. H. ....	Ottawa.	Anderson, Miss N. E. ....	Woodstock.
Allison, W. T. ....	Toronto.	Armour, E. N. ....	Cobourg.

## Fourth Year—Continued.

Armstrong, B. M. ....	Ottawa.	Foster, A. H. ....	Oakwood.
Armstrong, S. H. ....	Toronto.	Gibson, J. G. ....	Ottawa.
Bain, W. A. ....	Taunton.	Glanfield, W. J. ....	Jarvis.
Baker, Miss E. S. ....	Toronto.	Gould, Miss E. W. ....	Colborne.
Barlow, T. G. ....	Guelph.	Grange, E. W. ....	Napanee.
Bell, Miss E. ....	Toronto.	Grant, A. A. ....	Toronto.
Benson, Miss C. C. ....	Port Hope.	Greenshields, Miss J. ....	Toronto.
Berry, J. P. ....	South Bay.	Griffin, Miss G. ....	Toronto.
Bishop, E. T. ....	Exeter.	Griffin, Miss I. E. ....	Toronto.
Blumberger, S. ....	Toronto.	Groves, W. A. ....	Fergus.
Bogart, E. G. ....	Belleville.	Guest, Miss E. J. ....	Elginfield.
Bone, J. R. ....	Wingham.	Halliday, F. W. ....	Chesley.
Bradford, J. ....	Dunnville.	Harton, S. L. W. ....	Toronto.
Browne, Miss S. F. ....	Toronto.	Harvey, A. L. ....	Madison, Wis.
Burch, A. L. ....	St. Ann's.	Haslam, R. H. A. ....	Springfield, P. E. I.
Burgess, Miss G. O. ....	London.	Henderson, V. E. ....	Toronto.
Cameron, M. C. ....	Toronto.	Henwood, Miss A. F. ....	Welcome.
Carter, E. ....	Clandeboyce.	Hobbs, T. ....	Columbus.
Chow, Miss S. A. ....	Toronto.	Hogg, J. L. ....	Seaforth.
Cleary, E. A. ....	Windsor.	Holmes, J. H. ....	Newark.
Cleary, Miss N. ....	Windsor.	Hunter, J. B. ....	Woodstock.
Clegg, R. J. ....	Brussels.	Hunter, R. G. ....	Toronto.
Cohen, M. L. ....	Toronto.	Hurst, A. S. ....	Morpeth.
Cook, H. F. ....	Delhi.	Jackes, Miss M. ....	Toronto.
Cornie, J. A. ....	Fergus.	Jamieson, Miss B. M. ....	Ottawa.
Courtice, S. J. ....	Courtice.	Jermyn, P. T. ....	Wiaraton.
Covert, Miss I. E. ....	Toronto.	Johns, F. V. ....	Wiaraton.
Cowan, C. G. ....	Hamilton.	Johnston, Miss J. M. ....	Toronto.
Dakin, W. S. ....	Galt.	Keays, J. A. ....	Oshawa.
Davidson, R. ....	Ayr.	Kelly, H. ....	Aldboro.
Delor, A. R. ....	Little Britain.	Kennedy, Miss E. V. ....	Toronto.
Dennis, Miss E. ....	Brantford.	Kerr, W. A. R. ....	Toronto.
DeWitt, N. W. ....	Hamilton.	King, G. C. ....	Kingsville.
Dickey, Miss M. A. ....	Toronto.	Kingston, G. A. ....	West Huntingdon.
Dickson, A. J. ....	Goderich.	Knowles, R. W. ....	London.
Dickson, S. A. ....	Seaforth.	Kyle, Miss M. H. ....	Toronto.
Douglas, W. E. ....	Toronto.	Langford, A. J. ....	Granton.
Downey, Miss H. E. ....	Toronto.	Lapatinkoff, Miss P. ....	Toronto.
Doyle, M. ....	Dunkerron.	Lawson, Miss J. K. ....	Toronto.
Draper, C. D. ....	Chatham.	Lefroy, Miss C. I. ....	Toronto.
Duckett, Miss E. M. ....	Burlington.	Le Sueur, R. V. ....	Sarnia.
Dunn, Miss A. T. ....	Toronto.	Lick, Miss A. ....	Oshawa.
Dunnett, Miss E. ....	Belleville.	Little, Miss S. ....	Toronto.
Dunning, W. H. ....	Strathroy.	Loudon, Miss E. M. ....	Toronto.
Edwards, E. W. ....	Vienna.	Lucas, Miss L. ....	Toronto.
Emberson, R. ....	Bensfont.	Malott, F. E. ....	Leamington.
Eubank, Miss A. ....	Toronto.	Manson, Miss F. M. ....	Toronto.
Evans, Miss G. ....	Toronto.	Marther, Miss M. M. ....	Toronto.
Evans, Miss M. M. ....	Toronto.	Mather, A. J. ....	Weston.
Evans, W. G. ....	Tiverton.	Meredith, J. R. W. ....	Toronto.
Farmer, Miss F. ....	Ancaster.	Millar, Miss G. E. M. ....	Toronto.
Farrer, W. D. ....	Parry Sound.	Monds, J. J. ....	Caledon East.
Fielding, J. H. ....	Hamilton.	Moorhead, R. D. ....	Mt. Albert.
Fisher, J. H. F. ....	Toronto.	More, J. H. ....	Beeton.
Forbes, W. ....	Stratford.	Morrison, Miss A. M. ....	Toronto.

Mullin  
McAlp  
McCor  
Macdo  
McDou  
McDou  
McKay  
Macka  
McKee  
McKen  
McKen  
McKin  
McLea  
McLea  
McMun  
McNai  
McRae  
Neal,  
Neilson  
Newton  
Paine,  
Parry,  
Patters  
Patters  
Petch,  
Pewes,  
Potter,  
Powell,  
Poynter  
Rea, W  
Reynar,  
Richard  
Robb, E  
Robins  
Ross, G  
Russell,  
Sadler,  
Scott, A  
Scott, M  
Sealey,  
Sheppar  
Sinclair,  
  
Baird, V  
Hunter,  
Hunter,  
Johnston  
MacGill  
McKicha

## Fourth Year—Continued.

Mullin, R. H. ....	Hamilton.	Smeaton, W. ....	Hamilton.
McAlpine, R. J. ....	Thessalon.	Smith, F. R. ....	Buffalo.
McConnell, G. ....	Springbrook.	Smith, Miss M. A. ....	London.
Macdonald, P. A. ....	Thornbury.	Smith, W. G. ....	Cupids, Nfld.
McDougall, A. ....	Ottawa.	Snell, A. E. ....	Bolton.
McDougall, D. ....	Strathroy.	Spencer, R. A. ....	Collingwood.
Macdougall, G. ....	Brampton.	Steele, R. K. ....	Orillia.
McKay, J. ....	Lucknow.	Stratton, W. A. ....	Toronto.
Mackay, W. F. ....	Woodstock.	Sullivan, Miss N. ....	Toronto.
McKee, Miss K. E. ....	Toronto.	Sutcliffe, J. I. ....	Toronto.
McKenzie, A. F. ....	Toronto.	Tait, M. C. ....	St. Thomas.
McKerroll, D. ....	Owen Sound.	Taylor, Miss E. J. ....	London.
McKinlay, Miss G. ....	Toronto.	Taylor, Miss L. E. ....	Toronto.
McLean, H. W. ....	Port Hope.	Tegler, R. ....	Walkerton.
McLean, W. I. ....	Blyth.	Tennant, Miss I. L. ....	Toronto.
McMurchy, R. D. ....	Harriston.	Thackeray, B. E. ....	Roseneath.
McNairn, W. H. ....	Toronto.	Thomas, Miss J. ....	Toronto.
McRae, Miss M. H. I. ....	Dandalk.	Thomson, R. B. ....	Donville.
Neal, T. W. ....	Toronto.	Toll, S. T. ....	Quvey.
Neilson, Miss E. M. ....	Calgary, Alta.	Trenaman, Miss M. N. ....	St. Thomas.
Newton, S. F. ....	Smith's Falls.	Trench, W. W. A. ....	Richmond Hill.
Paine, Miss H. C. ....	Toronto.	Turner, Miss M. F. L. ....	Udora.
Parry, J. R. ....	Dunnville.	Umphey, G. W. ....	Thorndale.
Paterson, R. H. ....	Agincourt.	Uren, H. J. ....	Toronto.
Patterson, Miss A. W. ....	Oakville.	Waldie, R. S. ....	Toronto.
Petch, Miss H. M. ....	Toronto.	Walker, T. W. ....	Norwich.
Plewes, Miss E. D. ....	Toronto.	Watson, Miss M. M. ....	Mimico.
Potter, Miss E. G. ....	Paisley.	Westman, J. B. ....	Granton.
Powell, E. G. ....	Toronto.	White, E. T. ....	Oakwood.
Poynter, A. J. ....	Cherrywood.	White, Miss L. K. ....	Woodstock.
Rea, W. ....	Leadbury.	Whyte, D. ....	Markdale.
Reynar, Miss M. B. ....	Cobourg.	Will, G. E. ....	Toronto.
Richardson, J. T. ....	Gananoque.	Williams, W. H. ....	Toronto.
Robb, E. G. ....	Toronto.	Willis, C. L. ....	Seaforth.
Robinson, Miss M. ....	Toronto.	Wilson, N. R. ....	Cobourg.
Ross, G. W. ....	Toronto.	Winters, G. A. ....	Toronto.
Russell, T. A. ....	Exeter.	Woolverton, Miss H. S. ....	Hamilton.
Sadler, W. A. ....	Toronto.	Wooster, Miss T. ....	St. Thomas.
Scott, A. A. ....	Columbus.	Worts, Miss L. ....	Toronto.
Scott, Mrs. J. P. ....	Toronto.	Wren, J. S. ....	Chiselhurst.
Sealey, Miss E. M. ....	Hamilton.	Wright, Miss D. F. ....	Toronto.
Sheppard, Miss O. ....	Toronto.	Winch, Miss M. E. ....	Toronto.
Sinclair, D. A. ....	Toronto.		

## Graduate Students.

Baird, W. J., B.A. ....	Motherwell.	Pakenham, W., B.A. ....	Toronto.
Hunter, Miss G. H., B.A. ....	Toronto.	Perkins, R. J. M., B.A. ....	Gorrie.
Hunter, Miss M. E., B.A. ....	Toronto.	Prendergast, W., B.A. ....	Toronto.
Johnston, W. D., B.A. ....	Toronto.	Robinson, T. R., B.A. ....	Toronto.
MacGillivray, A. H., M.A. ....	Pt. Elgin.	Watson, W. G., B.A. ....	Toronto.
McKichan, M. D., B.A. ....	Hamilton.	Woodsworth, J., B.A. ....	Brandon.



## Candidates for Ph.D.

Blewett, G. J., B.A. ....	St. Thomas.	Shaw, M. A., B.A. ....	Merton.
Scott, F. H., B.A. ....	Toronto.	Wrinch, F. S., M.A. ....	Toronto.

Number of Students in the First year .....	235
Number of Students in the Second year .....	139
Number of Students in the Third year .....	168
Number of Students in the Fourth year .....	204
Number of Graduate Students .....	12
Number of Candidates for Ph.D. ....	4
<b>Total</b> .....	<b>762</b>

Ansley  
Archer  
Armstr

Atkin,  
Bell, W  
Biggar,  
Brown,  
Campb  
Campb  
Campb  
Chamb  
Charlto  
Currie,  
Davey,  
Draesek  
Elliot,  
Esler,  
Fisher,  
Fletche  
Flower,  
Foster,

Foster,  
Fraser,  
Fry, E.  
Gilmour  
Godfrey  
Graham  
Gray, E  
Gray, J.  
Gunn, J  
Haigh,  
Harris,  
Henders  
Hoag, J  
Hoidge,  
Huffmar

Abbott,  
Campbel  
Campbel  
Cerswell  
Chisholm  
Christie,

## B. Students in Medicine of the University of Toronto.

## First Year.

Ansley, B. C. ....	Toronto.	Irwin, J. R. ....	Port Hope.
Archer, A. E. ....	St. Catharines.	James, P. ....	Galt.
Armstrong, G. H. L. ....	Richard's Landing.	Johnstone, D. S. ....	Orillia.
Atkin, G. M. ....	Milverton.	Jones, H. ....	Hamilton.
Bell, W. J. ....	Toronto Junction.	Kergin, W. T. ....	St. Catharines.
Biggar, L. ....	Toronto.	King, D. M. ....	Toronto.
Brown, A. ....	Motherwell.	Klotz, O. ....	Ottawa.
Campbell, H. S. ....	Grafton, Ohio.	Laughland, L. C. ....	Ottawa.
Campbell, J. L. ....	Ridgetown.	Logan, H. ....	Meaford.
Campbell, N. S. ....	Thornbury.	Mcchell, W. R. ....	Perth.
Chambers, W. J. ....	Lochalsh.	Moir, A. ....	Dunnville.
Charlton, S. R. ....	Toronto.	Montgomery, C. H. ....	Orillia.
Currie, T. A. ....	Toronto.	Mugan, P. T. ....	Toronto.
Davey, E. J. ....	Stoney Creek.	Mullin, R. H. ....	Hamilton.
Draeseke, G. C. ....	Dundas.	Murdoch, C. ....	Brucefield.
Elliott, H. R. ....	New Sarum.	McCordie, H. N. ....	Jura.
Esler, J. K. ....	Blake.	McEachran, A. D. ....	Glencoe.
Fisher, A. ....	Stratford.	McGibbon, S. ....	Arkona.
Fletcher, G. W. ....	Blenheim.	MacLaurin, N. T. ....	Toronto.
Flower, J. ....	Dunnville.	Nelles, A. P. F. ....	Hamilton.
Foster, E. J. ....	Kagawong, Manitoulin Island.	Penwarden, C. B. ....	St. Thomas.
Foster, R. F. ....	Scottville, Mich.	Roaf, H. E. ....	Toronto.
Fraser, J. J. ....	Huttonville.	Rutherford, R. W. ....	Chatham.
Fry, E. E. ....	Elmira.	Saunders, P. W. ....	Toronto.
Gilmour, C. H. ....	Toronto.	Short, F. ....	Elora.
Godfrey, J. E. ....	Meaford.	Smith, D. ....	Embro.
Graham, J. A. S. ....	Toronto.	Smith, D. A. ....	Claude.
Gray, E. A. ....	Toronto.	Snell, A. E. ....	Bolton.
Gray, J. W. ....	Toronto.	Stauffer, L. L. ....	Waterloo.
Gunn, J. N. ....	Clinton.	Stewart, R. ....	Bluevale.
Haigh, E. J. ....	Toronto.	Sullivan, H. J. ....	Pictou.
Harris, R. B. ....	Bloomfield.	Sutherland, C. G. ....	Hamilton.
Henderson, V. E. ....	Toronto.	Wallace, W. T. ....	Orangeville.
Hoag, J. M. ....	Nelson, B.C.	Welch, J. W. ....	New Westminster, B.C.
Hoidge, E. T. ....	Toronto.	Withrow, O. C. ....	Woodstock.
Huffman, J. L. ....	Aylmer.	Wray, G. S. ....	Schomberg.
		Wright, A. B. ....	Toronto.

## Second Year.

Abbott, W. J. ....	Brockville.	Clarkson, F. A. ....	Seaforth.
Campbell, C. C. ....	Listowel.	Cleland, F. A. ....	Meaford.
Campbell, J. A. ....	Blenheim.	Cohoe, R. A. ....	Springford.
Cerswell, W. A. ....	Bondhead.	Colbeck, O. W. ....	Toronto Junction.
Chisholm, J. D. ....	Berlin.	Colling, F. J. ....	Preston.
Christie, H. A. ....	Garnet.	Cronyn, W. H. ....	London.

## Second Year—Continued.

Coates, F. P. ....	Stratford.	McCollum, J. A. ....	Toronto.
Davis, G. ....	Cayuga.	McIlwraith, D. G. ....	Hamilton.
Davis, T. A. ....	Toronto.	McIntyre, W. ....	Toronto.
Dixon, J. J. ....	Hamilton.	MacKechnie, H. N. ....	Paisley.
Doran, W. ....	Hamilton.	McKichan, M. D. ....	Hamilton.
Doherty, F. J. ....	Eglington.	Parent, H. R. ....	Tecumseh.
Ferguson, C. D. ....	Port Stanley.	Pirie, G. R. ....	Hamilton.
Ferguson, J. A. ....	Hamilton.	Riches, F. S. ....	Toronto.
Gordon, G. A. ....	Thamesford.	Rutherford, A. B. ....	Owen Sound.
Hamilton, W. T. ....	Motherwell.	Smillie, J. ....	Bluevale.
Hill, E. A. ....	Brussels.	Smith, J. A. ....	Hamilton.
Hill, S. R. ....	Bradford.	Sproat, R. D. ....	Milton.
Kee, R. J. ....	Stanley Mills.	Stanley, G. D. ....	St. Mary's.
Kerr, T. E. ....	Toronto.	Steele, A. T. ....	Orangeville.
Leader, R. W. ....	Plattaville.	Storey, W. E. ....	Windsor.
Lighthall, D. S. ....	Picton.	Traibe, C. E. ....	Toronto.
Moak, J. W. ....	Luenburg.	Wainwright, C. S. ....	Orillia.
Montgomery, A. H. ....	Brantford.	Warren, C. A. A. ....	Acton.
Moran, S. A. ....	Trenton.	Whealey, D. G. ....	Toronto.
Morten, C. S. ....	Toronto.	Whitley, L. N. ....	Londesboro'.
McCartney, G. E. R. ....	Jerseyville.	Wright, F. T. ....	Britannia.

## Third Year.

Anderson, G. A. ....	Owen Sound.	Hutchison, H. S. ....	Toronto.
Anderson, H. T. ....	Petrolia.	Martindale, C. J. ....	Mount Healy.
Bell, C. C. ....	Chatham.	Montgomery, W. G. ....	Wroxeter.
Blanchard, N. N. ....	Leaskdale.	Montzambert, N. H. ....	Toronto.
Burns, W. T. ....	Toronto.	Morgan, A. E. ....	Kerwood.
Cameron, A. J. ....	Watford.	Morrison, H. ....	Thamesford.
Cameron, H. C. ....	Robroy.	McClelland, A. W. ....	Palmerston.
Campbell, A. C. ....	St. Thomas.	MacDougall, A. J. G. ....	Toronto.
Campbell, C. A. ....	Toronto.	MacDonald, F. C. ....	Bendale.
Carder, E. D. ....	St. Thomas.	McKay, W. F. ....	Beaverton.
Casselman, C. O. ....	Huntsville.	MacKenzie, A. J. ....	Lucknow.
Charlton, S. E. ....	Galt.	MacKinnon, K. ....	Guelph.
Clutterbuck, H. E. ....	Watford.	McLoughlin, F. E. ....	Hamilton.
Collins, H. L. ....	Kincardine.	O'Brien, P. W. ....	Toronto.
Cook, R. W. ....	Fordwich.	Parry, R. Y. ....	Dunville.
Cooper, E. M. ....	Melbourne.	Revell, D. G. ....	Tryconnel.
Coutts, E. N. ....	Chatham.	Rogers, N. L. ....	Newmarket.
Currie, C. J. ....	Toronto.	Robertson, W. E. ....	Milton.
Dixon, I. ....	Walkerton.	Scott, P. L. ....	Paris.
Dittrick, H. ....	St. Catharines.	Smith, G. W. ....	Almonte.
Downing, H. G. ....	Woodstock.	Stubbs, E. J. ....	Stratford.
Dunlop, D. R. ....	Fordwich.	Snyder, G. B. ....	Abbingdon.
Dunnington, W. H. ....	Victoria, B.C.	Tatham, C. C. ....	Listowel.
Flath, E. ....	Drayton.	Trout, J. H. ....	Toronto.
Gilbert, H. S. ....	Picton.	Webb, J. ....	Toronto.
Hodgson, D. E. ....	Toronto.	White, W. R. ....	Toronto.
Howland, G. W. ....	Toronto.	Williams, J. P. F. ....	Georgetown.
Hendrick, A. C. ....	Frankford.	Wilson, T. J. H. ....	Hamilton.

Archib  
Begg,  
Bremm  
Bretho  
Burgess  
Chisho  
Church  
Clarke,  
Colville  
Couch  
Connol  
Dean,  
Dillane  
Dowle  
Fletche  
Gow, J  
Hargre  
Hawke  
Holmes  
Lones,  
Keith,  
Kelly,  
Kitcher  
Kitcher  
Knox,  
Leask,  
McArth  
McCall

Amey, W  
Armstr  
Armstr  
Atkins  
Barker,  
Bartlam  
Bentley  
Bonnyce  
Campbe  
Campbe  
Chamber  
Colborne  
Curry,  
Dando,  
Deacon,  
Doering,  
Elliott,  
Ely, E.  
Fitzpatr  
Foster,  
Floyd, S  
Gallangh  
Gray, J.  
Gunn, V

## Fourth Year.

Archibald, T. D. ....	Halifax, N.S.	MacDonald, W. ....	Windsor.
Begg, C. L. ....	Orillia.	McFall, W. A. ....	Bolton.
Bremner, W. C. P. ....	Minesing.	MacKenzie, J. J. ....	Toronto.
Brethour, H. F. ....	Sunderland.	McKenna, C. H. ....	Dublin.
Burgess, C. M. ....	Bala.	McLeay, L. ....	Watford.
Chisholm, J. S. ....	Wingham.	McTavish, F. ....	Palmyra.
Church, A. H. ....	Toronto.	Neely, D. ....	Harkaway.
Clarke, W. T. ....	Exeter.	Northcott, W. S. ....	Belleville.
Colville, N. E. ....	Leskard.	Peters, J. H. ....	Fergus.
Couche, J. B. ....	Glace Bay, N.S.	Piersol, W. H. ....	Toronto.
Connolly, E. L. ....	Belhaven.	Ramsey, G. H. ....	Toronto.
Dean, M. B. ....	Brighton.	Ratcliffe, W. G. ....	St. Catharines.
Dillane, K. M. ....	Tottenham.	Reid, J. B. ....	St. George.
Dowsley, G. W. O. ....	Campbellford.	Robinson, J. W. ....	Omagh.
Fletcher, W. G. ....	Chatham.	Rutherford, J. W. ....	Chatham.
Gow, J. ....	Windsor.	Schnarr, R. W. ....	Berlin.
Hargreave, H. G. ....	Toronto.	Smith, G. W. M. ....	Barrie.
Hawken, R. E. ....	St. Catharines.	Stanley, J. R. ....	Granton.
Holmes, C. U. ....	Selkirk.	Tanner, A. W. ....	Toronto.
Lones, E. A. ....	Whitby.	Turnbull, F. ....	Milverton.
Keith, J. P. ....	Lindsay.	Vivian, E. P. ....	Toronto.
Kelly, A. W. ....	Chatham.	Wagner, C. T. ....	Toronto.
Kitchen, A. S. ....	Chatham.	Walters, J. J. ....	Elora.
Kitchen, W. W. ....	Toronto.	Wales, H. C. ....	Toronto.
Knox, A. A. ....	Chatham.	Wells, W. ....	Holland, Manitoba.
Leask, T. M. ....	Parkdale.	Woods, A. C. ....	Barrie.
McArthur, P. R. ....	Moorefield.	Young, F. A. ....	Toronto.
McCallum, S. ....	Sandhill.		

## Occasional Students.

Amy, W. B. ....	Oakland.	Harding, C. A. ....	St. Mary's.
Armstrong, R. M. ....	Ottawa.	Hermiston, G. M. ....	Pictou.
Armstrong, T. B. ....	Locust Hill.	Holloway, W. T. ....	Clinton.
Atkinson, J. R. ....	Priceville.	Honsinger, E. W. ....	St. Thomas.
Barker, E. S. ....	Toronto.	Howard, G. P. ....	Toronto.
Bartlam, S. H. ....	Toronto.	Hudson, H. J. ....	Lucknow.
Bentley, W. J. ....	London.	Island, J. S. ....	Orangeville.
Bonnycastle, G. C. ....	Campbellford.	Jarvis, R. ....	London.
Campbell, E. C. ....	Belwood.	Jones, E. C. ....	Woodstock.
Campbell, K. C. ....	Toronto.	Kelsey, J. H. ....	Toronto.
Chambers, J. S. ....	Toronto.	Kennedy, L. T. ....	Toronto.
Colborne, H. ....	Chesterville.	Kennedy, S. M. ....	London.
Curry, B. J. ....	Ottawa.	Lockridge, S. ....	Napanee.
Dando, A. B. C. ....	Galt.	Mallory, F. R. ....	Campbellford.
Deacon, T. H. ....	London.	Miller, J. S. ....	Hamilton.
Doering, L. ....	Stratford.	Michell, A. C. ....	Toronto.
Elliott, W. F. ....	Toronto.	Moore, F. P. ....	London.
Ely, E. M. ....	Kingston.	Moles, E. W. ....	Athens.
Fitzpatrick, C. A. ....	Vankleek Hill.	Monro, A. E. ....	London.
Foster, D. M. ....	Guelph.	McBride, C. W. ....	Northfield.
Floyd, S. T. ....	Toronto.	McDonald, R. T. ....	Galt.
Gallagher, T. E. ....	Toronto.	McDowell, W. A. ....	Listowel.
Gray, J. W. ....	Hamilton.	McKarlane, J. M. ....	Georgetown.
Gunn, W. J. ....	Cornwall.	McGill, T. N. ....	Erin.



## Occasional Students—Continued.

McKay, W. S. ....	Galt.	Simmons, E. H. ....	Glen Miller.
McKercher, L. ....	L'Original.	Smith, E. P. ....	London.
McLellan, H. ....	Almonte.	Smith, L. ....	London.
McPherson, J. ....	Woodstock.	Sprott, R. J. ....	Barrie.
Reed, J. S. ....	Toronto.	Tait, W. L. ....	Pakenham.
Rhind, J. E. ....	Toronto.	Vanduzer, F. C. ....	Hamilton.
Ross, C. M. ....	Hamilton.	Wilson, J. J. ....	Newton Robinson.
Rundell, A. E. ....	Berlin.	Wilson, W. E. ....	Warkworth.
Rutherford, W. J. ....	Aurora.	Windsor, C. ....	London.
Santo, A. E. ....	London.	Winters, H. ....	Carlton Place.
Sims, E. J. ....	Owen Sound.	Woods, W. ....	Brampton.

Number of students in the First Year. ....	73
Number of students in the Second Year. ....	54
Number of students in the Third Year. ....	56
Number of students in the Fourth Year. ....	55
Occasional students. ....	70
Total. ....	308

Barrett, F.  
Batt, T. V.  
Beatty, W.  
Bell, J. W.  
Benson, T.  
Bertram,  
Bowes, W.  
Brandon,  
Breton,  
Broughton,  
Chace, W.  
Christie, A.  
Cockburn,  
Conlon, F.  
Denison, I.  
Duff, W. A.  
Eason, D.  
Forbes, D.  
Fotheringham,  
George, R.  
Gibson, N.  
Hamer, A.

NO

Alison, J.  
Anderson,  
Armstrong,  
Beatty, F.  
Beardmore,  
Bochmer, C.  
Bolger, E.  
Dawson, C.  
Elwell, W.  
Evans, W.  
Fuller, W.  
Gagne, L.  
Henry, J. I.  
Jackson, F.  
Knight, R.

Ardagh, E.  
Barley, J. I.  
Boswell, M.  
Burd, J. H.

## C. Students of the School of Practical Science.

## First Year.

## REGULAR STUDENTS.

Barrett, R. H. ....	Gesto.	Harvey, C. ....	Indian Head.
Batt, T. W. ....	West Toronto Junction.	Laidlaw, A. ....	Durham.
Beatty, W. G. ....	Fergus.	Larkworthy, W. J. ....	Mitchell.
Bell, J. W. ....	St. George.	McCallum, G. C. ....	Welland.
Benson, T. B. F. ....	Port Hope.	McMaster, A. T. C. ....	Toronto.
Bertram, G. M. ....	Toronto.	McMillan, G. ....	South Finch.
Bowes, W. J. ....	Toronto.	McVean, H. G. ....	Dresden.
Brandon, E. T. ....	Toronto.	Morley, R. W. ....	Waterloo.
Brereton, W. P. ....	Bethany.	Mustard, W. A. ....	Brucefield.
Broughton, J. T. ....	Harriston.	Pinkerton, W. T. ....	Lloydtown.
Chace, W. G. ....	St. Catharines.	Rigsby, J. P. ....	Toronto.
Christie, A. G. ....	Manchester.	Robertson, D. F. ....	Almonte.
Cockburn, J. R. ....	Toronto.	Rust, H. P. ....	Toronto.
Conlon, F. T. ....	Thorold.	Sauer, M. V. ....	Toronto.
Denison, F. C. ....	Toronto.	Shepherd, W. F. ....	St. Mary's.
Duff, W. A. ....	Hamilton.	Sill, A. J. ....	Jarvis.
Eason, D. E. ....	Keene.	Stevenson, W. H. ....	Lancaster.
Forbes, D. L. H. ....	Toronto.	Sutherland, W. H. ....	Toronto.
Fotheringham, J. M. ....	Bethany.	Twiss, A. T. ....	Glencoe.
George, R. E. ....	Port Elgin.	Wolverton, A. N. ....	Lindsay.
Gibson, N. R. ....	Toronto.	Zahn, H. J. ....	Stratford.
Hamer, A. T. E. ....	Bradford.		

## NON-REGULAR STUDENTS TAKING FULL COURSES.

Alison, J. G. R. ....	Toronto.	Lacher, B. H. ....	Toronto.
Anderson, A. W. ....	Sutton West.	Lytle, C. W. ....	Toronto.
Armstrong, H. J. ....	Markdale.	Mace, F. G. ....	Toronto.
Beatty, F. R. ....	Toronto.	Macdonald, W. R. ....	Toronto.
Beardmore, W. W. ....	Toronto.	MacLennan, A. L. ....	Toronto.
Bochmer, C. H. ....	Berlin.	Mason, H. C. ....	Potsdam, N.Y., U.S.
Bolger, E. B. ....	Lindsay.	Minnie, R. S. ....	Toronto.
Dawson, C. N. ....	Peterboro'.	Mitchell, C. H. ....	Enniskillen.
Elwell, W. J. ....	Toronto.	Pickett, A. B. ....	St. John, N.B.
Evans, W. F. ....	Toronto.	Reid, T. ....	Toronto.
Fuller, W. J. ....	Leamington.	Ritchie, G. F. ....	Toronto.
Gagne, L. ....	St. Joseph d'Alma, P.Q.	Thompson, W. J. ....	Carberry, Man.
Henry, J. S. ....	Toronto.	Vassar, A. W. ....	Toronto.
Jackson, F. C. ....	Seaforth.	Wanless, A. A. ....	Toronto.
Knight, R. ....	Bruce Mines.	Wilkin, J. F. ....	Toronto.

## Second Year.

Ardagh, E. G. R. ....	Toronto.	Clark, J. ....	St. Helens.
Barley, J. H. ....	Mitchell.	Clarke, F. F. ....	Deer Park.
Boswell, M. C. ....	Peterborough.	Clarke, N. ....	Toronto.
Burd, J. H. ....	Parry Sound.	Davidson, J. E. ....	Toronto.

## Second Year—Continued.

Dickinson, E. D. ....	Barrie.	Matheson, W. C. ....	Milton.
Dickson, G. ....	Toronto.	Middleton, H. T. ....	Toronto.
Dixon, H. A. ....	Eglington.	Miller, L. H. ....	Alymer, Ont.
Fullerton, C. H. ....	Atwood.	Morrison, J. A. ....	Winthrop.
Guest, W. S. ....	Elginfield.	Neelands, E. V. ....	Lindsay.
Henderson, S. E. M. ....	London.	Phillips, E. H. ....	Tilsonburg.
Henry, J. A. ....	St. Ives.	Power, G. H. ....	Toronto.
Holcroft, H. S. ....	Toronto.	Price, H. W. ....	Brampton.
Hunt, G. A. ....	Galetta.	Roaf, J. R. ....	Toronto.
Johnston, H. A. ....	Toronto.	Saunders, H. W. ....	Petrollea.
Johnston, J. A. ....	Pefferlaw.	Smith, A. H. ....	Toronto.
Johnston, J. C. ....	Toronto.	Tennant, W. C. ....	Toronto.
Lumbers, W. C. ....	Toronto.	Thorne, S. M. ....	Toronto.
Mackenzie, J. R. ....	Toronto.	Thorlde, F. W. ....	Toronto.
McArthur, R. E. ....	Toronto.	Weir, H. M. ....	Brantford.
McMillan, J. G. ....	Dutton.	Withrow, F. D. ....	Toronto.

## Third Year.

Allan, J. L. ....	Halifax, N.S.	Monds, W. ....	Caledon East.
Barber, T. ....	Meaford.	Patterson, J. ....	Thamesford.
Bray, L. T. ....	Amherstburg.	Perry, F. M. ....	Toronto.
Burnside, T. ....	Deer Park.	Pope, A. S. H. ....	Toronto.
Chubbuck, L. B. ....	Ottawa.	Revell, G. E. ....	Woodstock.
Clothier, G. A. ....	Kemptville.	Richards, E. ....	Brockville.
Cooper, C. ....	Hampden.	Rountlwaite, C. H. E. ....	Collingwood.
Coulthard, R. W. ....	Toronto.	Saunders, G. A. ....	Petrollea.
Craig, J. A. ....	Port Hope.	Shanks, T. ....	Mouse Creek.
Elliot, J. C. ....	Kelso.	Tennant, D. C. ....	Toronto.
Foreman, W. E. ....	Walkerville.	Van Every, W. W. ....	Petrollea.
Guy, E. ....	Columbus.	Wagner, W. E. ....	Toronto.
Hall, G. A. ....	Washington.	Watt, G. H. ....	Walkerton.
Hare, W. A. ....	Dartmouth, N. S.	Willson, R. D. ....	Toronto.
Hemphill, W. ....	Toronto.	Yeates, E. ....	London.
Latham, R. ....	Eglington.		

## Fourth Year.

Boyd, W. H. ....	Toronto.	Kormann, J. S. ....	Toronto.
Carter, W. E. H. ....	Toronto.	Shiple, A. E. ....	Cheltenham.
Grant, W. F. ....	Toronto.	Williamson, D. A. ....	Jarvis.

## Occasional Students.

Anglin, B. ....	Toronto.	Manning, W. M. ....	Spokane, U.S.
Davidson, J. L. ....	Toronto.	Ross, D. A. ....	Toronto.
Hamilton, T. E. ....	Fergus.	Swannell, F. C. ....	Toronto.

## Summary.

Number of Students in Arts .....	762
Number of Students in Medicine .....	308
Number of Students in Applied Science .....	156
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	1,226

## HISTORICAL SKETCH.

The movement which ended in the establishment of the University of Toronto as the centre of the educational system of the Province of Ontario originated with General Simcoe, the First Governor of Upper Canada, who repeatedly expressed his conviction, both before his departure from England and also during his term of office (1792-1796), that the best interests alike of the Government and of the inhabitants demanded the establishment of a University in Upper Canada. It was not, however, during his administration that the project assumed a definite form.

In 1797 the Legislative Council and House of Assembly in a joint address to King George III. asked "that his Majesty would be graciously pleased to direct his Government in the Province to appropriate a certain portion of the waste lands of the Crown as a fund for the establishment and support of a respectable Grammar School, in each district thereof; and also a College or University for the instruction of youth in the different branches of liberal knowledge." To this address a favorable answer was transmitted, and the acting Lieutenant-Governor, the Hon. Peter Russell, was directed to determine the manner and character of the appropriation. In accordance with this request the Executive Council of Upper Canada reported on the 1st December, 1798, that an appropriation of 500,000 acres would be sufficient for the support and maintainance of four Grammar Schools and a University. For the foundation of the latter nothing was done until 1827, when a Royal Charter was granted for the establishment at or near York, as Toronto was then called, of a College "with the style and privilege of a University," to be called "King's College," having for its endowment that portion of the grant of "waste lands" originally provided for the University in the report above referred to. These lands were in 1828 exchanged for 225,944 acres of Crown Reserves.

Owing not only to the character of the endowment, which required time for its realization in a form yielding an annual revenue, but also owing to the terms of the charter, which required all the members of the Faculties to be adherents of one particular religious denomination, the opening of the College was delayed for fourteen years. In consequence of public representations on the sectarian character of the College, all religious tests were abolished by an amended charter which passed the two Houses of the Provincial Legislature and received the Royal Assent in 1837. In 1842 the affairs of the University had assumed such a condition as to render its organization possible, and Faculties of Arts, Medicine, Law, and Divinity were established. In that year the erection of the College Building was begun on the eastern portion of the site of the present Legislative Buildings. In 1843 the first matriculation of students took place, and inaugural addresses and lectures were delivered on the 8th and 9th June of that year.



The agitation which resulted in the amended charter of 1837 had continued after the opening of the College in 1842, owing to efforts made to defeat the purpose of the amendment, and in 1849 an Act of the Legislature effected important modifications in the constitution of King's College, whereby all instruction in Divinity was discontinued, and a larger measure of public control of the affairs of the University instituted, through the formation of a Senate, of which a number of the members were appointed by the Crown. The name was now changed from that of the University of King's College to that of "The University of Toronto."

Three years afterwards the University underwent a further transformation, by which the Act of 1853 abolished the Faculties of Medicine and Law, and divided its functions between the two newly organized corporations of the "University of Toronto" and "University College." To the Senate were assigned the duties of framing the curriculum, holding examinations and admitting to degrees in Arts, Law and Medicine, while to the President and Professors of University College, as a distinct and independent corporation with special powers, were assigned the teaching in Arts and the entire discipline and control of students. The models followed in the reorganization of the Universities, it was claimed, were the University of London and University College, London, both of which had then been only recently established. For thirty-four years, the University of Toronto and University College performed the functions respectively assigned to them by this Act.

During the early years of the University it experienced repeated changes in its local habitation. The faculty and students of King's College were at first temporarily accommodated in the Parliament Buildings until the erection of the east wing of King's College admitted of the occupation of their own building. From this they were anew transferred to the old Parliament Buildings in 1853, when, by a special Act, the site of King's College was appropriated for the proposed new buildings for the use of the Parliament of Upper and Lower Canada. On the return of the Legislature to Toronto, in 1856, the Faculty resumed the occupation of the old King's College Building, while one formerly in use by the Medical Faculty, situated on the site of the present Biological Building, was being adapted for their occupation. There accordingly the work of the College was carried on, pending the erection of the new University buildings. These buildings were begun in 1856, and on October 4th, 1858, the top stone of the main tower was placed in position by Sir Edmund Head, the Governor-General, an old Oxford professor, the value of whose sympathy and support at this critical period in the history of the University cannot be over-estimated.

For thirty-four years the constitution of the University of Toronto and of University College remained unchanged. Other collegiate bodies, principally denominational schools of theology, entered into affiliation with the University, and, with regard to their especial requirements, the course of study in Oriental Languages was augmented, but the Faculty of University College continued to do the work of instruction for nearly all the students in Arts who presented themselves for examination. The candidates for examinations and degrees in

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Medicine were trained in medical schools in affiliation with the University, and for degrees in Law the examinations were based upon text-books prescribed by the Senate, without teaching.

In 1887 both the University of Toronto and University College were remodelled by the University Federation Act. The main object of renewed legislation was to secure a more uniform standard of higher education by the union of the various denominational universities of Ontario with the Provincial University. Since the proclamation of the Act, Victoria University at Cobourg, representing the Methodist body, has entered into federation with the University of Toronto. The governing body of this institution is now represented on the Senate of the University of Toronto, its graduates elect representatives to the same body, and by the removal of the faculty and students of Victoria University to Toronto, where college buildings have been erected to the north of Queen's Park, the Union of the two universities has been effected. Under the Federation Act, the theological colleges also, formerly in affiliation with the University of Toronto, have become federated colleges, and enjoy increased representation on the Senate.

The Faculty of University College, by the Act of 1887, consists of professors and lecturers in Classical Languages and Literature (including lecturers in Ancient History), Oriental Languages, English, French, German, and Moral Philosophy. All other portions of the Arts course are assigned to the Faculty of the University of Toronto, of which the lectures are made equally available to the students of University College, and those of all federating universities and colleges. For the maintenance of certain of the departments of science on a scale demanded by modern methods of research, special provision has been made by the erection of new and the enlargement of old buildings. In the new Biological building every facility is now provided for practical training in Biology and Physiology. The Chemical Building was completed in 1895, and affords similar facilities for practical work in Chemistry.

A Faculty of Medicine in the University of Toronto was established immediately upon the passing of the Act in 1887, and teaching is imparted in all branches of medical science. All the advantages of the Faculty of Arts are available for the students in Medicine, and the laboratories of the scientific departments are utilized equally by students in both faculties.

In 1888 a stimulus was given to the study of scientific methods of farming by the affiliation of the Ontario Agricultural College, and the adoption of a curriculum of study for the degree of Bachelor of the Science of Agriculture. Similarly an examination for the degree of Doctor of Dental Surgery was instituted, as a consequence of the affiliation of the Royal College of Dental Surgeons of Ontario. The College of Pharmacy was subsequently admitted to affiliation, and a curriculum in Pharmacy prescribed. On the affiliation of the Toronto College of Music, a curriculum of study was prepared for the degree of Bachelor of Music. The School of Practical Science was affiliated in 1889, and graduates of the School are specially eligible on certain conditions for the degrees of Bachelor of Applied Science and of various degrees in Engineering in the University. By a recent enactment of the Senate a

curriculum was prescribed leading to the degree of Bachelor and Doctor of Pedagogy. In 1897 a course of study was established leading to the degree of Doctor of Philosophy in certain of the Arts departments. In 1897 also the Ontario Veterinary College was affiliated.

On February 14th, 1890, the main University building was partly destroyed by fire. In the reconstruction thereby rendered necessary, opportunity was afforded for important improvements in lighting, heating, and ventilation. Considerable extension was effected in the numbers, capacity and equipment of the lecture-rooms and laboratories. A new library building was erected on plans embracing the most recent improvements suggested by the experience of leading Universities in the United States and elsewhere. A building for the accommodation of the Gymnasium was erected in 1892, and additions to it were completed in 1894 for the accommodation of student societies.

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## BENEFACTIONS AND DONATIONS.

**The Library Building.**

D. W. Alexander .....	\$ 100 00	Robert Jaffray (a debenture)	\$ 1000 00
Dr. Barbour .....	2422 22	John Keith .....	200 00
W. H. Beatty .....	1000 00	Kilgour Bros. ....	500 00
Bell, Begg & Cowan .....	100 00	W. D. Matthews .....	1000 00
Caldecott, Burton & Co. ....	100 00	M. McConnell .....	100 00
Canadian Bank of Commerce	1000 00	McGaw & Winnett .....	250 00
Joseph Cawthra .....	500 00	William Mulock .....	5000 00
William Christie .....	5000 00	H. W. Nelson .....	100 00
Copp, Clark Co. ....	100 00	E. B. Osler .....	10000 00
George A. Cox .....	5000 00	Province of Quebec .....	10000 00
Miss Cumberland .....	3 00	John Pugsley .....	200 00
Davidson & Hay .....	1012 50	Elias Rogers .....	100 00
Rev. A. Dowsley .....	4 40	James Scott .....	500 00
The Goldsmiths' Company .....	241 67	Mrs. Emily Smart .....	500 00
Geo. Gooderham .....	10000 00	Dr. Andrew Smith .....	500 00
W. G. Gooderham .....	1000 00	Dr. Larratt W. Smith .....	500 00
W. B. Hamilton .....	250 00	Col. Sweny .....	500 00
H. C. Hammond .....	1000 00	Warwick & Sons .....	100 00
Dr. John Hoskin .....	1000 00	Wyld, Grasset & Darling .....	200 00

**Gymnasium Building.**

Collected before 1880 (names not obtainable) .....	\$ 650 23	John Macdonald & Co .....	\$ 10 00
Dr. H. W. Aikins .....	25 00	J. H. McCullough .....	2 00
Prof. E. J. Chapman .....	50 00	William Mulock .....	600 00
D. B. Dick .....	50 00	Dr. R. A. Pyne .....	10 00
J. T. Duncan .....	5 00	Dr. R. A. Reeve .....	100 00
Literary and Scientific Soc'y.	800 00	Dr. A. H. Wright .....	40 00
		Prof. R. Ramsay Wright .....	60 00

**Residence Extension Fund.**

Dr. A. H. F. Barbour, Edin- burgh .....	\$484 44	Sir Daniel Wilson .....	\$200 00
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**Women's Residence Fund.**

In 1893 an association of ladies was formed, with the object of obtaining funds for the erection of a Residence for women students in connection with University College. A beginning has been made in the work of securing subscriptions. The following is the list of subscribers to this fund up to 25th May, 1899 :—



Mrs. W. H. B. Aikins .....	\$ 5 00	Laura L. Jones .....	\$ 40 00
D. W. Alexander .....	25 00	Gertrude Lawler .....	50 00
Mr. Baird .....	5 00	President London .....	150 00
Alfred Baker .....	100 00	Mrs. Loudon .....	50 00
Eliza M. Balmer .....	50 00	Mary Ard. MacKenzie .....	20 00
Jean Balmer (per Mrs. Balmer) .....	25 00	The Misses MacMurchy .....	25 00
Robert Balmer .....	50 00	J. Mavor .....	100 00
Dr. and Mrs. Barbour, Edinburgh .....	121 50	Mr. W. J. Mitchell .....	5 00
Alfred Benjamin .....	10 00	Moss, Hoyles & Aylesworth .....	50 00
Hon. Edward Blake .....	500 00	Sheriff Mowat .....	25 00
Mrs. Edward Blake .....	500 00	G. H. Needler .....	25 00
Hon. S. H. Blake .....	600 00	John Penman, Paris, Ont .....	50 00
Mrs. A. F. Campbell .....	1 00	Mrs. Reeve .....	20 00
Through Miss J. W. Carter, Elora .....	30 00	Charlotte Ross .....	25 00
The Misses Carty .....	50 00	Miss L. L. Ryckman .....	50 00
William Christie .....	500 00	Rowell & Hutchison .....	200 00
Mr. James Crane .....	5 00	Nellie Spence .....	25 00
W. Dale .....	100 00	J. Squair .....	100 00
A. T. DeLury .....	50 00	Professor Morse Stephens (proceeds of lecture) .....	113 00
Gertrude Eastwood .....	25 00	Emily Thompson .....	25 00
J. W. Flavell .....	50 00	Miss Veals .....	10 00
Kate Fleming .....	25 00	B. E. Walker .....	100 00
W. H. Fraser .....	100 00	Hiram Walker & Sons .....	100 00
Freer and Patterson .....	100 00	R. & T. Watson .....	100 00
A Friend .....	5 00	G. M. Wrong .....	50 00
Helene J. Gervais .....	1 00	Women Students, Class of '95 .....	34 00
Mrs. Elmyra T. Hamilton .....	100 00	Women's Glee Club Concert .....	19 00
W. B. Hamilton .....	100 00	Ladies' Association, Ottawa (additional) .....	60 00
Julia Hillcock .....	25 00	Ladies' Association, Ottawa (additional) .....	25 85
J. G. Hume .....	100 00	Ladies' Association, Toronto (proceeds of Concert) .....	70 00
E. C. Jeffrey .....	25 00	Saturday Lectures .....	373 00

### Physical Laboratory.

The following contributions have been made to aid in completing the equipment of the Physical Laboratory:—

Prof. Alfred Baker .....	\$ 50 00	Hon. William McMaster .....	\$ 50 00
J. H. Balderson .....	15 00	J. McMillan .....	5 00
George Baptie .....	5 00	F. F. Manly .....	10 00
A. K. Blackadar .....	20 00	Alfred H. Marsh .....	20 00
H. S. Brennan .....	10 00	Charles Moss .....	50 00
Mrs. Alexander Cameron .....	1000 00	Sir Oliver Mowat .....	50 00
T. D. Delamere .....	20 00	William Mulock .....	200 00
Prof. Galbraith .....	50 00	Dr. W. Oldright .....	10 00
J. C. Glashan .....	30 00	Dr. R. A. Reeve .....	165 00
William Gooderham .....	50 00	E. H. Rutherford .....	50 00
F. Hayter .....	25 00	William Scott .....	10 00
W. D. LeSeuer .....	10 00	McL. Stewart .....	50 00
Hon. John Macdonald .....	50 00	Sir Daniel Wilson .....	50 00
Dr. N. MacNish .....	25 00	Frederick Wyld .....	100 00
J. L. McDougall .....	50 00	Prof. G. P. Young .....	50 00
Dr. L. McFarlane .....	10 00		

This Laboratory has also received from the Hon. R. H. Meade, C.B., Colonial Office, London, England, the gift of a large Binocular Microscope with accessories.

### Pathological Laboratory.

A subscription list was opened in February, 1890, for the purpose of raising a fund for the equipment of the Pathological Laboratory. The whole sum paid to the Barsar and expended for this purpose was \$1,206.92, after the deduction of \$1.58 for incidental expenses of collection. The following is the list of subscribers:—

M. H. Aikins .....	\$ 40 00	Mr. Goldie, Galt .....	\$250 00
W. T. Aikins .....	250 00	J. E. Graham .....	60 00
O. R. Avison .....	13 00	S. M. Hay .....	5 00
L. F. Barker .....	5 00	J. H. Hudson .....	5 00
Price Brown .....	10 00	W. H. Johnson .....	10 00
J. H. Burns .....	5 00	A Lady .....	5 00
Dr. Burt, Paris .....	10 00	James Leslie .....	10 00
I. H. Cameron .....	30 00	L. McFarlane .....	120 00
F. W. Cane .....	8 00	B. E. McKenzie .....	10 00
J. Caven .....	10 00	A. McPhedran .....	34 00
W. P. Caven .....	5 00	W. Oldright .....	3 00
G. S. Cleland .....	10 00	G. A. Peters .....	10 00
T. S. Cullen .....	5 00	R. A. Reeve .....	150 00
J. T. Duncan .....	34 00	B. L. Riordan .....	5 00
A. T. Ellis .....	2 00	R. Rowan .....	10 00
J. Ferguson .....	30 00	H. C. Scadding .....	3 50
T. A. Ferguson .....	5 00	W. J. Wagner .....	5 00
G. Féré .....	5 00	M. Wallace .....	8 00
C. M. Foster .....	8 00	A. H. Wright .....	20 00

### Scholarship Funds.

Bankers of Toronto, viz., The Canadian Bank of Commerce, the Dominion, Imperial, Standard, and Traders' Banks, and the Union Bank of Lower Canada (Political Science) .....	\$1200 00	Mary Mulock (Matriculation Classics) .....	\$2000 00
Dr. A. H. F. Barbour, of Edinburgh (The George Brown Scholarship in Medical Science) .....	5055 56	William Mulock (Classics, Mathematics) .....	2000 00
Hon. Edward Blake (Matriculation Scholarships) .....	15000 00	His Royal Highness the Prince of Wales (Matriculation) .....	900 00
Hon. Edward Blake (Mathematics, Physics and Science) .....	3750 00	William Ramsay, of Bowlands, Scotland (Political Economy) .....	1009 42
George Brown Scholarship, by Friends of the late Hon. Geo. Brown (Modern Languages) .....	1054 82	Julius Rossin, of Hamburg, Germany (Modern Languages) .....	1000 00
Alexander T. Fulton (Mathematics, Physics and Science) .....	3000 00	T. B. P. Stewart .....	961 32
Hon. John Macdonald (Philosophy) .....	1950 00	Toronto Committee of the American Association for the Advancement of Science (Mathematics, Physics and Science) .....	2350 00
Friends of the late Hon. Alexander Mackenzie (Political Science) .....	16425 00	Daniel Wilson Scholarship, by a friend of the late Sir Daniel Wilson (Chemistry and Mineralogy and Natural Science) .....	2000 00
Moss Scholarship, by friends of the late Hon. Chief Justice Moss (Classics) .....	2000 00	The Young Memorial Fund, by friends of the late Professor George Paxton Young .....	3018 74

### Library Restoration Fund.

After the destruction of the University Library in 1890, a sum amounting to upwards of \$40,000 was subscribed by individuals and organizations to aid in replacing the loss. In the Calendar of 1898-99 will be found a complete list of amounts paid into this fund by the various subscribers up to 1st May, 1898.

### Donations of Books.

Since the destruction of the University Library by fire in 1890, upwards of 30,000 volumes have been presented by various persons and organizations. For a complete list of these, see Appendix to Calendars of 1894, 1895, 1896, 1897, and 1898. The following donations have been received between May, 1898, and May, 1899:—

Government of Canada, 19 Vols. ; Government of France, 3 Vols., 26 Pamphlets ; Government of Manitoba, 1 Vol. ; Government of Nova Scotia, 1 Vol., 5 Pamphlets ; Government of Ontario, 15 Vols. ; Government of Quebec, 6 Vols. ; Government of Italy, 4 Pamphlets ; Government of United States, 9 Vols., 8 Pamphlets ; State of Maine, 1 Vol. ; State of Massachusetts, 3 Vols. ; State of Michigan, 1 Vol., 1 Pamphlet ; State of New York, 1 Vol. ; State of Rhode Island, 1 Vol. ; Agricultural Experiment Station, California, 3 Pamphlets ; American Society for Extension of Teaching, Philadelphia, 1 Vol., 18 Pamphlets ; American Museum of Natural History, New York, 3 Pamphlets ; American Association for Advancement of Science, 2 Pamphlets ; Astronomical and Physical Society of Toronto, 1 Pamphlet ; American Historical Association, 1 Vol. ; Bureau für Bremische Statistik, 1 Vol. ; Boston Society of Medical Science, 1 Pamphlet ; British Museum, 5 Vols. ; Bureau für Statistik, Budapest, 4 Pamphlets ; Botanic Gardens, Sydney, Australia, 26 Pamphlets ; British Association for the Advancement of Science, 1 Vol. ; Bristol Museum, 1 Pamphlet ; Boston Public Library, 1 Pamphlet ; Brookline Public Library, 1 Pamphlet ; Buffalo Society of Natural Science, 2 Pamphlets ; Bergens Museum, 3 Pamphlets ; Bellevue Hospital, New York, 1 Vol., 1 Pamphlet ; Canadian Institute, Toronto, 1 Vol., 1 Pamphlet ; California Academy of Science, 1 Pamphlet ; Charity Organization of New York, 1 Pamphlet ; Clinical Society of London, 1 Vol. ; Canadian Bankers' Association, 1 Pamphlet ; Dante Society, 1 Pamphlet ; Direccion General del Registro Montevideo, 10 Pamphlets ; Enoch Pratt Free Library, Baltimore, 1 Pamphlet ; Egypt Exploration Fund, 1 Pamphlet ; Essex Institute, 2 Pamphlets ; Field Columbian Museum, 6 Pamphlets ; Geological Survey, London, 1 Pamphlet ; Free Labor Protection Association, 3 Vols., 1 Pamphlet ; Historical and Scientific Society of Manitoba, 3 Pamphlets ; Historical Department of Iowa, 3 Pamphlets ; Das Hydrographische Amt, Pola, Austria, 1 Pamphlet ; Institute of Civil Engineers, London, 3 Vols., 1 Pamphlet ; Institute of Mechani-

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Aberdeen, University of, 2 Vols., 1 Pamphlet; Auckland University, New Zealand, 1 Vol.; Augustana College, Rock Island, 1 Pamphlet; Acadia University, Wolfville, N.S., 1 Pamphlet; Basel Universität, 6 Pamphlets; Bryn Mawr University, 3 Pamphlets; Bourget College, Quebec, 1 Pamphlet; Bowdoin College, 3 Pamphlets; College of the Holy Cross, Worcester, 1 Pamphlet;



Cambridge, University of, 1 Vol., 1 Pamphlet; Chicago University, 3 Pamphlets; California, University of, 11 Pamphlets; Colorado, University of, 1 Pamphlet; Columbia University, 3 Pamphlets; Cornell University, 2 Pamphlets; Case School of Applied Science, 1 Pamphlet; Canterbury College, New Zealand, 1 Vol.; Dartmouth College, Hanover, N.H., 2 Pamphlets; Dalhousie College, Halifax, 1 Pamphlet; Denver, University of, 1 Pamphlet; De Pauw University, Indiana, 1 Pamphlet; Drew Theological Seminary, 1 Vol., 15 Pamphlets; Dakota, State University of, 1 Pamphlet; Edinburgh, University of, 2 Vols.; Erlangen Universität, 210 Pamphlets; Glasgow University, 1 Vol.; Göttingen Universität, 2 Pamphlets; Giessen Universität, 58 Pamphlets; Groszherzogl. Regierungsbibliothek, Schwerin, 693 Vols., 46 Pamphlets; Hartford Theological Seminary, 1 Pamphlet; Harvard University, 3 Pamphlets; Jena Universität, 200 Pamphlets; Johns Hopkins University, 1 Vol., 27 Pamphlets; Kaiserl. Japanische Universität, Tokyo, 8 Pamphlets; Kansas University, 3 Pamphlets; Konigl. Norske Frederiks Universitet, Christiania, 19 Pamphlets; Königl. Vereinigte Friedrichs Universität, Halle, 94 Pamphlets; Knox College, Toronto, 1 Pamphlet; Lille, Université de, 1 Vol., 9 Pamphlets; Louvain, Université de, 13 Pamphlets; Lund Universitet, 2 Pamphlets; Leland Stanford University, 4 Pamphlets; Lyon, Université de, 1 Pamphlet; Marburg Universität, 6 Pamphlets; Michigan University of, 1 Vol., 1 Pamphlet; McMaster University, Toronto, 1 Vol., 1 Pamphlet; Melbourne, University of, 1 Vol., 2 Pamphlets; Mount Allison College, Sackville, N.B., 1 Pamphlet; Manitoba, University of, 2 Pamphlets; McGill University, Montreal, 1 Vol., 12 Pamphlets; Mason University, Birmingham, 1 Vol.; North-western University, Evanston, Ill., 1 Pamphlet; National University, Athens, 5 Pamphlets; Nebraska, University of, 1 Pamphlet; New York, University of the State of, 4 Vols., 8 Pamphlets; New York, University of, 1 Pamphlet; Notre Dame University, Indiana, 1 Pamphlet; New Brunswick, University of, 1 Pamphlet; Oberlin College, 4 Pamphlets; Ottawa, University of, 1 Pamphlet; Pennsylvania, University of, 15 Pamphlets; Pisa, Università di, 2 Pamphlets; Princeton University, 3 Vols., 4 Pamphlets; Philadelphia College of Pharmacy, 9 Pamphlets; Presbyterian College, Halifax, 1 Pamphlet; Picton Academy, Picton, N.S., 1 Pamphlet; Palermo Università di, 1 Pamphlet; Panjab University, Lahore, 1 Vol.; Park College, Parkville, Mo., 2 Pamphlets; Queen's University, Kingston, 2 Pamphlets; Queen's College, Galway, 1 Vol.; Rochester, University of, 1 Pamphlet; School of Mining, Kingston, 1 Pamphlet; St. Michael's College, Toronto, 1 Pamphlet; St. Andrew's University, Scotland, 1 Vol.; Sydney, University of, 1 Pamphlet; St. Mungo's College, Glasgow, 1 Vol.; School of Science, Toronto, 1 Pamphlet; Toulouse, Université de, 4 Pamphlets; Tulane University, New Orleans, 1 Pamphlet; Trinity University, Toronto, 1 Pamphlet; Trinity College, Hartford, 1 Pamphlet; Trinity College, London, 2 Vols.; Tübingen Universität, 37 Pamphlets; Technische Hochschule, Darmstadt, 3 Pamphlets; Theological Seminary, Auburn, N.Y., 1 Pamphlet; University College of North Wales, 1 Vol., 7 Pamphlets; University College of South Wales and Monmouthshire, 1 Vol.; Upsala Universitet, 56 Pamphlets; Université Libre

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Secretary of State for India, 13 Vols.; Prince of Monaco, 1 Pamphlet; Addison, W. T., Byng Inlet, Ont., 1 Vol.; Alexander, Prof. W. J., 2 Vols.; Alexander, A., New York, 1 Vol.; Bourinot, Sir John, 1 Vol.; Bain, J., Toronto, 2 Vols., 1 Pamphlet; Bashford, E., Horncastle, Eng., 1 Pamphlet; Barker, P. M., 1 Pamphlet; Copp, Clark Co., Toronto, 28 Vols.; Carter, President, Williams College, Mass., 1 Pamphlet; Chapman, Prof., Hampton Wick, Eng., 1 Vol.; Douglas, J., New York, 1 Vol.; De Candolle, C., Geneva, 3 Pamphlets; Editor Phi Gamma Delta Directory, New York, 1 Vol.; Editor of "Current History," Boston, 1 Pamphlet; Eddison, Dr., Leeds, Eng., 2 Vols., 1 Pamphlet; Errara, M. L., University of Brussels, 1 Pamphlet; Foote, A. R., Washington, 2 Vols.; Gosnell, R. E., Victoria, 1 Pamphlet; Goto, Dr. Seitaro, Tokyo, 3 Pamphlets; Green, S. A. Cambridge, Mass., 1 Pamphlet; Green, J. R., Trinity College, Cambridge, 9 Pamphlets; Horton-Smith, L., London, 1 Pamphlet; Herbert, A., Ringwood, Hampshire, 4 Vols., 1 Pamphlet; Hirasé, Dr., Tokyo, 1 Pamphlet; Hackett, C. C., Washington, 1 Vol.; Kingsmill, Nicol, Toronto, 1 Vol.; Prince Kropotkin, 2 Pamphlets; Kenin, E. N., Toronto, 1 Pamphlet; Loudon, President, University of Toronto, 4 Vols., 1 Pamphlet; Morelli, Sig. A., Modena, 1 Pamphlet; Macoun, J., Ottawa, 4 Pamphlets; McNairn, Mrs., Toronto, 1 Vol.; McNairn, W. H., Toronto, 1 Vol.; Nordheim, Jakob, Hamburg, 5 Vols.; Roberts, S. A., Victoria, 1 Pamphlet; Renault, Raoul, Quebec, 1 Pamphlet; Sadler, Ralph, 1 Pamphlet; Sherwood, G. E., Sherwood, London, 1 Pamphlet; Shortt, Prof. A., Kingston, 4 Pamphlets; Stahl, E., Botanical Gardens, Jena, 1 Pamphlet; Shipley, Mrs. Marie F., Chexbres, 1 Pamphlet; Scott, A. M., Toronto, 2 Pamphlets; Thompson, R. A., Hamilton, 2 Vols.; Vernon Harcourt, L. E., London, 2 Pamphlets; Wheeler, H. L., Burlington, Vt., 2 Vols., 1 Pamphlet; Walker, W. H., Ann Arbor, 1 Pamphlet; Wilson, G. H., Toronto, 1 Vol.; Ward, H. Marshall, University of Cambridge, 1 Pamphlet; Wager, H., Leeds, Eng., 1 Pamphlet; Wrong, Prof. G. M., 1 Vol., 18 Pamphlets.

### Museum.

The following donations were received by the Biological Museum from June 1898, up to April 30th, 1899:—

William Christie, Esq., \$250.00; Hiram Walker & Sons, \$250.00; J. W. Flavelle, Esq., \$250.00; Charles Miller, Esq., B.A., '78, \$200.00; T. G. Blackstock, Esq., \$125.00; Geo. Gooderham, Esq., \$125.00; William Davies, Esq., \$100.00; B. E. Walker, Esq., \$100.00; Jos. Kilgour, Esq., \$25.00.

### Portraits and Works of Art.

The following portraits and works of art have been presented to the University:—

1. A portrait of the late Hon. William Hume Blake (oil painting by T. Hamel), presented by the Hon. Edward Blake.
2. A portrait of the Hon. Edward Blake, Chancellor of the University (oil painting by E. Wyly Grier), presented by graduates and friends.
3. A portrait of Prof. E. J. Chapman (oil painting by Miss Frances Sutherland), presented by the artist.
4. A portrait of the late Professor Henry Hohmes Croft (oil painting by A. Dickson Patterson), presented by friends of Professor Croft.
5. A portrait of the late President Dr. McCaul (oil painting by A. Dickson Patterson), presented by the artist.
6. A portrait of the late Vice-Chancellor Moss (oil painting by Miss C. S. Berthon, copy of oil painting by M. Berthon), presented by Charles Moss, Esq.
7. A portrait of the late Right Reverend Bishop Strachan (oil painting copy), presented by the Council of University College.
8. A portrait of the late President Sir Daniel Wilson (oil painting by A. Dickson Patterson), presented by friends of Sir Daniel Wilson.
9. A marble bust of the late Professor George Paxton Young (by Hamilton McCarthy), presented by friends of Professor Young.
10. A portrait of the late Professor George Paxton Young (oil painting by W. Allaire Shortt), presented by the artist.
11. The "Call to Duty" (oil painting by Paul Giovanni Wickson), presented to the Medical Faculty by the artist.
12. The "Marriage of the Duke of York" and "The King of Denmark's First Visit," commemorative medals, presented by the Town Clerk of London, England.
13. Bronze medal commemorative of the sesquicentennial anniversary of the founding of the College of New Jersey (Princeton University), presented by the Trustees of Princeton University.
14. Bronze medal commemorative of the 150th anniversary of the capture of Louisbourg in 1745, presented by the Louisbourg Memorial Committee of the General Society of Colonial Wars.
15. Busts of Dr. W. T. Aikins, Dr. J. H. Richardson, and Dr. H. H. Wright, by the Medical Faculty and other friends.

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### University Studies.

The following is a list of Studies published up to May, 1899, together with those in preparation at that date:—

History, 1st Series.—Review of Historical Publications relating to Canada, Vol. II., Publications of the year 1897, and Vol. III., Publications of the year 1898, both edited by Professor George M. Wrong, assisted by H. H. Langton, B. A.\*

History, 2nd Series, No. 1.—Louisbourg in 1745, the anonymous "Lettre d'un Habitant de Louisbourg," edited and translated by Professor George M. Wrong. No. 2.—The Early Trading Companies of New France. (In preparation.) No. 3.—The Chronicle of Jocelyn of Brakelonde, an English translation, with introduction and notes. (In preparation.)

Economic Series (under the editorship of Professor Mavor), No. 1.—Public Debts in Canada, by J. Roy Perry, B. A.

Biological Series (under the editorship of Professor Ramsay Wright), No. 1.—The Gametophyte of *Botrychium Virginianum*, by E. C. Jeffrey, B. A.

Psychological Series (under the editorship of Dr. Kirschmann), No. 1.—Spatial Threshold of Colours and its Dependence on Contrast Phenomena, by W. B. Lane, M. A., with appendices on Abnormal Colour Sense, by J. W. Baird, B. A., R. J. Richardson, B. A., and A. Kirschmann, Ph. D. No. 2.—Experiments on the estimation of rhythmical time intervals, etc. (In preparation.)

Mathematical Series (under the editorship of Professor Baker), No. 1.—Collected Mathematical Papers of George Paxton Young, M. A., LL.D., Late Professor of Metaphysics and Ethics in the University of Toronto, edited by J. C. Glashan. (In preparation.)

Physiological Series (under the editorship of Professor A. B. Macallum), No. 1.—Structure of non-nucleated Organisms. (In preparation.)

No. 2.—Structure and Micro-Chemistry of Nerve Cells. (In preparation.)

\* Volume I. of this Review was issued before the publication of the Studies was provided for under the management of the Faculties.

### Local Lectures.

To meet the demand for popular lectures on literary and scientific subjects, a committee of the Councils has been annually appointed for several years back to arrange for the delivery of such lectures by members of the Faculty at various centres throughout the Province, and also in Toronto. In order to extend the benefits of the lectures as widely as possible the services of the lecturers are placed at the disposal of any literary or scientific organization desiring them, as far as is consistent with the academic engagements of the lecturers, and no charge has hitherto been imposed other than travelling expenses. During the present academic year 70 lectures have been delivered at 32 local centres. The following programme of lectures was prepared and circulated early in the session:—



## PROFESSOR ALFRED BAKER—

- (1) "The Hard-grained Muses of the Cube and Square;" (2) Genius in Science—Sir William Rowan Hamilton; (3) Astrology; (4) Hero of Alexandria—A Study in Greek Mechanical Science; (5) The Science of the Ancient Greeks, and the Debt we owe them; (6) The Nebular Hypothesis; (8) The Beginnings of Astronomy.

MR. J. HOME CAMERON, M.A.—  
Zola and the Realists.

## MR. ST. ELME DE CHAMP—

- (1) La Chanson Française; (2) Le Paysan dans le Roman Français. (These lectures are delivered in French.)

## MR. C. A. CHANT, B.A.—

- (1) Electric Waves; (2) Complementary Colors. (These lectures can be given only in Toronto.)

## PROFESSOR A. P. COLEMAN—

- (1) The Ice Age in Canada; (2) Mountain Building.

## MR. A. T. DELURY, B.A.—

The Sun: Its Relation to Life and Terrestrial Energy.

## PROFESSOR J. G. HUME—

- (1) The Preparation for Christianity; (2) The Ascetic Life; (3) Faith Doubt in Modern Controversy; (4) A Great Modern Reformer; (5) Problems of Social Reform; (6) How to Think; (7) Philosophical Views of the late George Paxton Young.

Professor Hume is also prepared to deliver a series of lectures on the History of Philosophy, and on the History and Theory of Ethics.

## PROFESSOR MAURICE HUTTON—

- (1) The Statesmen of Athens; (2) Greek Virtues and Theories of Life; (3) The Women of Greece; (4) Some Oxford Types (1st Series); (5) Some Oxford Types (2nd Series); (6) The Mind of Herodotus; (7) Some Aspects of Classical Education; (8) The Roman, the Greek, the Englishman and the Frenchman (one or two lectures as desired); (9) Plato on University Education; (10) The Antigone of Sophocles; (11) Athenian Literature (1st period); (12) Athenian Literature (2nd period); (13) Roman Life, Literature and Later Analogies (two lectures); (14) Plutarch; (15) The Tyrants of Greece.

Professor Hutton is also prepared to deliver a series of lectures on The Antigone of Sophocles; on The History of the Gracchi; and on The History of the Tyrants of Greece.

## MR. D. R. KEYS, M.A.—

- (1) The American Humorists; (2) The Life and Times of Shakespeare; (3) Macaulay; (4) Thackeray; (5) Scott; (6) Gladstone as a Writer; (7) Matthew Arnold, the Apostle of Culture; (8) Oliver Wendell Holmes.

## PROFESSOR J. F. McCURDY—

- (1) The Bible and Altruism; (2) The Message of Israel; (3) Our Debt to the East; (4) Bible Lands and Peoples; (5) The Beginning of the World; (6) Our Eastern Words and their Story; (7) The Bible and

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MR. W. S. MILNER, M.A.—

- (1) The Watershed of History ; (2) Cicero and the Great Companies of Rome ; (3) Roman Provincial Government ; (4) Greek Education ; (5) Tolstoi.

MR. R. G. MURISON, M.A., B.D.—

- (1) A Buried Civilization ; (2) Phœnicia and the Phœnicians.

MR. G. H. NEEDLER, B.A., PH.D.—

- (1) The German Empire and its People ; (2) Heinrich Heine and Young Germany ; (3) Martin Luther from the Literary Standpoint.

MR. F. J. SMALE, B.A., PH.D.—

- (1) Alchemy ; (2) The Chemistry of Fermentation ; (3) The Relations of Chemistry to Trade.

MR. F. TRACY, B.A., PH.D.—

- (1) Socrates, the Man and the Philosopher ; (2) The Republic of Plato ; (3) Stoicism and Christianity ; (4) Relation of Psychology to Pedagogy ; (5) Logic and Life.

Mr. Tracy is also prepared to deliver a series of Lectures on the Republic of Plato.

PROFESSOR W. H. VANDERSMISSEN—

- (1) Goethe's Faust (two lectures) ; (2) Life in Germany in the Middle Ages (with lantern slides) ; (3) Walther von der Vogelweide, a Sweet Singer of the Middle Ages ; (4) Klopstock, the Singer of the Messiah ; (5) Friedrich von Logau, an Epigrammatist of the Thirty Years' War.

MR. S. M. WICKETT, B.A., PH.D.—

Money.

PROFESSOR R. RAMSAY WRIGHT—

Some Aspects of the Biology of the Great Lakes (with lantern slides).

PROFESSOR G. M. WRONG—

Oliver Cromwell.

### SATURDAY PUBLIC LECTURES.

The following lectures were delivered in the University of Toronto during the session of 1898-99 :—

<i>Subject.</i>	<i>Lecturer.</i>
The Klondike .....	Mr. F. C. Wade.
With the American Land Forces in Cuba .....	Mr. John A. Ewan.
Hieroglyphics, Ancient and Modern .....	Mr. Sam Hunter.
Our Salmon and Salmon Fisheries .....	Professor Prince.
Some Oxford Types .....	Professor Hutton.
Some Types of Rural French Canada .....	Dr. W. H. Drummond.
The Seasons in India .....	Dr. R. D. Rudolf.

## UNIVERSITY EXTENSION.

The following statute, relating to University extension work, was passed by the Senate in April, 1894 :—

1. A standing committee of seven members of Senate shall be appointed annually for the purpose of carrying on "University Extension" work of a kind similar to that carried on under the same designation in connection with the Universities of Cambridge and Oxford.
2. The Committee shall have authority to appoint a secretary, define his duties, and fix his remuneration.
3. No part of the expense incurred for teaching and examining done at "local centres" of instruction, or for secretarial work done under the authority of the Committee, or for any other purpose connected with University extension, shall be a charge on the ordinary revenue of the University.
4. It shall be the duty of the Committee, subject to ratification by the Senate, to appoint teachers and examiners for approved or prescribed courses of study at local centres, and to grant certificates to such students as may have passed the final examination in each course, and complied with other conditions prescribed from time to time by the Committee.
5. It shall be the duty of the secretary to keep a register, in which shall be entered the name and address of each student who obtains a certificate, with a description of the course of study in which he has passed, and such other particulars as the Committee may from time to time order to be inserted.

## UNIVERSITY COLLEGE RESIDENCE.

## General Regulations.

1. Resident students are under the immediate charge of the Dean.
2. Only matriculated students in Arts registered in University College, and members of the University or College Arts staff, are admitted as residents.
3. Each student upon entering is required to sign his name in the Dean's book to a declaration that he will conform to the statutes and regulations relative to resident students.
4. All interference with the personal liberty of any student by arresting him, or summoning him before any tribunal of students, or otherwise subjecting him to any indignity or personal violence, or by disturbing him in the possession of his room, is forbidden by the Council.
5. All use of beer, wine or spirits in the students' rooms is strictly forbidden.
6. Resident students shall regularly attend morning and evening prayers, unless exempted from so doing in consequence of the objection of their parents or guardians.
7. A register shall be kept of the attendance of the residents at prayers, and also of the hours of passing the gate.
8. No stranger shall be admitted after the closing of the gate, nor remain in the building after 12 o'clock at night.

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9. No student will be allowed to continue in Residence who is reported to the Council to be persistently neglecting his work.
10. The Dean is authorized to impose fines for infraction of regulations, and for insubordination or disorderly conduct.
11. The authority to dismiss from Residence is vested in the College Council.

#### Rules.

1. The first morning bell shall be rung at 7.30 A.M.; second morning bell and prayers at 8.10 A.M.; breakfast from 8.15 to 9 A.M.; lunch at 1 P.M.; evening bell and prayers at 6.30 P.M.; dinner from 6.40 to 7.15 P.M.; gate closed at 10.40 P.M.
2. No student shall remain out after 12 o'clock at night, except by permission of the Dean.
3. Students may invite their friends to any meal, having informed the Steward, to whom they shall pay the charge fixed for such meal.
4. The officers of the College and non-resident students may purchase from the Steward tickets for meals.
5. The fee payable by resident students for board and rent of room varies from three and three-quarters to four dollars and a half per week.
6. All fees of resident students are to be paid monthly in advance.
7. Resident students shall regularly attend their respective places of worship on Sunday.

#### Circular of Dean of Residence.

University College .....

As your son (or *ward*) proposes coming into Residence in this College, I beg to inform you that it is the desire of the Council that, where there are no conscientious objections, all the students under their charge should be present in the hall at daily morning and evening prayers, with reading of Scriptures. It is also their wish that they should regularly attend on Sundays their respective places of worship, and receive such other religious instruction as their parents or guardians may desire. I have to request that you will be so good as to let me know whether you desire your son (or *ward*) to attend such daily prayers in the College, and that you will also mention the Minister under whose charge you wish to place him.

The Council will afford every facility for the carrying out of your intentions, and with this view will exercise such control over your son (or *ward*) during his residence, as may be best calculated to effect your wishes. In the event of your not informing me of your desire on the subject, the Council will assume that you have no objection to his being required to attend the daily prayers of the College, and will exercise an oversight as to his attendance on the ministrations of a clergyman of the denomination to which he belongs.



## STUDENT SOCIETIES.

## Young Men's Christian Association.

## OFFICERS.

<i>Pres</i> . . . . . N. F. Coleman, '00.	<i>Asst. Treas</i> . . . . . C. Cudmore, '02.
<i>1st Vice-Pres</i> . . . . R. B. Patterson, '00.	<i>Rec. Sec</i> . . . . . W. L. Nichol, '02.
<i>2nd Vice-Pres</i> . . . . J. A. Henry, S.P.S.	<i>Gen. Sec</i> . . . . . F. W. Anderson.
<i>Treas</i> . . . . . D. J. Davidson, '01.	

*Conveners of Committees: Membership, W. G. Wilson; Devotional, W. Simpson; Rooms, A. S. Wilson; City Missions, R. S. Laidlaw; Bible Study, W. C. Good; Fall Campaign, A. E. Armstrong; Finance, D. J. Davidson; Music, G. F. Atkinson; Inter-Collegiate Movement, R. J. Wilson; Missionary, A. G. McPhedran.*

## Young Women's Christian Association.

## OFFICERS.

<i>Hon. Pres</i> . . . . . Mrs. Fletcher.	<i>Treas</i> . . . . . Miss R. Straith '00.
<i>Pres</i> . . . . . Miss Ethel Fleming, '00.	<i>Rec. Sec</i> . . . . . Miss F. M. Wicher, '01.
<i>Vice-Pres</i> . . . . . Miss L. Darling, '01.	<i>Cor. Sec.</i> . . . . . Miss M. McDonald, '02.

*Conveners of Committees: Membership, Miss J. Yemen, '00; Missionary, Miss Harrison, '00; Music, Miss A. Gall, '00; Lunch, Miss M. Lang; Secretary of Bible Class, Miss A. I. Dickson, '00; Leader of Missionary Study Class, Miss A. C. McDonald, '01.*

## Medical Faculty Young Men's Christian Association.

## OFFICERS.

## 1. FINAL YEARS.

<i>Pres.</i> . . . . . S. E. Charlton.
<i>Vice-Pres</i> . . . . . F. P. Coates.
<i>Treas</i> . . . . . E. M. Cooper.
<i>Sec.</i> . . . . . R. W. Leader.

*Conveners of Committees for Final Years: Membership, G. B. Snyder; Devotional, H. G. Downing; Missionary, M. D. McKichan, B.A.; Reception, G. A. Anderson; Music, W. T. Hamilton.*

*Conveners of Committees for Primary Years: Membership, A. E. Archer; Bible Study, E. J. Davey.*

## 2. PRIMARY YEARS.

<i>Pres.</i> . . . . . W. T. Kergin.
<i>Treas.</i> . . . . . O. C. Withrow.
<i>Coun.</i> . . . . . B. Jones.
" . . . . . F. Short.

## University College Literary and Scientific Society.

## OFFICERS.

<i>Pres.</i> . . . . . Dr. F. J. Smale.	<i>Sec. of Coms.</i> . . . . R. B. Cochrane, '02.
<i>1st Vice-Pres.</i> . . . . G. A. Cornish, '00.	<i>Hist. Sec</i> . . . . . H. Lang, '00.
<i>2nd Vice-Pres.</i> . . . . R. A. Cassidy, '01.	<i>4th Yr. Coun.</i> . . . . A. H. McLeod, '00.
<i>3rd Vice-Pres.</i> . . . . A. E. Hamilton, '02.	<i>3rd Yr. Coun.</i> . . . . J. A. Miller, '01.
<i>Rec. Sec.</i> . . . . . H. D. Graham, '00.	<i>2nd Yr. Coun.</i> . . . . A. E. Cunningham, '02.
<i>Cor. Sec.</i> . . . . . E. V. Neelands, S. P. S.	<i>3rd Yr. S.P.S. Coun.</i> . W. C. Matheson.
<i>Curator</i> . . . . . R. J. Wilson, '00.	<i>2nd</i> " " " W. J. Larkworthy.
<i>Treas.</i> . . . . . F. H. Wood, '01.	

Hon.  
Pres.  
Vice-  
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Orator  
Judge  
Proph  
Critic.

Pres.  
1st Vi  
2nd Vi  
Sec. . .  
Treas  
Orator  
Proph  
Judge.

## Women's Literary Society.

### OFFICERS.

<i>Hon. Pres.</i> ..... Miss Hillock.	<i>Treas.</i> ..... Miss E. E. Conlin.
<i>Pres.</i> ..... Miss H. M. Hughes.	<i>4th Yr. Rep.</i> ..... Miss A. St. O. Cole.
<i>Vice-Pres.</i> ..... Miss I. S. Butterworth.	<i>3rd Yr. Rep.</i> ..... Miss B. B. White.
<i>Rec. Sec.</i> ..... Miss F. Cole.	<i>2nd Yr. Rep.</i> ..... Miss E. L. E. Peers.
<i>Cor. Sec.</i> ..... Miss J. A. Fraser.	

### Varsity.

#### EDITORIAL BOARD.

<i>Editor-in-Chief</i> .... A. H. R. Fairchild.	<i>3rd Year</i> ..... G. F. McFarland.
<i>4th Year</i> ..... F. E. Brown.	"..... Miss W. A. Hutchison.
"..... A. N. W. Clare.	<i>2nd Year</i> ..... E. R. Patterson.
"..... W. C. Good.	"..... R. M. Stewart.
"..... Miss M. L. Wright.	"..... Miss J. Dickson.
<i>3rd Year</i> ..... A. I. Fisher.	<i>S.P.S.</i> ..... D. A. Ross.
"..... E. J. Kylie.	

#### BUSINESS BOARD.

<i>Bus. Mngr.</i> ..... D. E. Kilgour.	<i>3rd Year</i> ..... Miss M. Watt.
<i>4th Year</i> ..... W. A. Smith.	<i>2nd Year</i> ..... J. A. Martin.
"..... Miss H. B. Woolryche.	<i>S.P.S.</i> ..... Holcroft.
<i>3rd Year</i> ..... A. F. Aylesworth.	"..... I. R. Fotheringham.

### Sesame.

#### EDITORIAL BOARD.

<i>Editor-in-Chief</i> .. Miss C. C. Grant, '00.	<i>3rd Yr. Rep.</i> .. Miss A. C. Macdonald, '01.
<i>4th Yr. Rep.</i> .. Miss E. M. Fleming, '00.	<i>2nd Yr. Rep.</i> .. Miss M. W. Moore, '02.

#### BUSINESS BOARD.

<i>Bus. Mngr.</i> .... Miss G. McDonald, '00.	<i>2nd Year Rep.</i> .... Miss Downing, '02.
<i>3rd Yr. Rep.</i> .. Miss W. Hutchison, '01.	

### Class Societies.

#### 1899.

<i>Pres.</i> ..... Alex. McDougall.	<i>Mus. Dir.</i> ..... H. E. Abraham.
<i>1st Vice-Pres.</i> .. Miss B. M. Jamieson.	<i>Ath. Dir.</i> ..... W. A. Groves.
<i>2nd Vice-Pres.</i> .. S. A. Dickson.	<i>Historian</i> ..... W. Rea.
<i>Sec.</i> ..... W. H. McNairn.	"..... Miss E. Dennis.
<i>Treas.</i> ..... C. J. Dickson.	<i>Coun.</i> ..... Miss C. C. Benson.
<i>Orator</i> ..... J. J. Monds.	"..... Miss D. F. Wright.
<i>Judge</i> ..... A. L. Burch.	"..... F. Halliday.
<i>Prophet</i> ..... E. G. Robb.	"..... R. J. Clegg.
<i>Critic</i> ..... G. A. Kingston.	

#### 1900.

<i>Pres.</i> ..... A. N. W. Clare.	<i>Critic</i> ..... J. F. M. Stewart.
<i>1st Vice-Pres.</i> .. Miss L. S. Wegg.	<i>Ath. Dir.</i> ..... R. Telford.
<i>2nd Vice-Pres.</i> .. H. Lang.	<i>Historian</i> ..... Miss M. M. G. Baird.
<i>Sec.</i> ..... W. G. Harrison.	"..... E. P. Flintoft.
<i>Treas.</i> ..... R. M. Millman.	<i>Coun.</i> ..... Miss M. M. Lang.
<i>Orator</i> ..... B. A. Simpson.	"..... Miss M. E. Mason.
<i>Prophetess.</i> .. Miss M. R. Fleming.	"..... W. Elmslie.
<i>Judge</i> ..... H. D. Graham.	"..... A. H. R. Fairchild.

## 1901.

<i>Pres.</i> ..... E. J. Kylie.	<i>Poetess</i> ..... Miss J. Forrest.
<i>1st Vice-Pres.</i> Miss W. A. Hutchison.	<i>Judge</i> ..... A. F. Aylesworth.
<i>2nd Vice-Pres.</i> ..... C. E. Rowland.	<i>Critic</i> ..... J. Bowes Coyne.
<i>Sec.</i> ..... A. H. Adams.	<i>Historian</i> ..... G. F. MacFarland.
<i>Treas.</i> ..... H. W. Irwin.	“..... Miss F. Cole.
<i>Mus. Dir.</i> ..... H. L. Lazier.	<i>Councillor</i> ..... Miss A. E. Crane.
<i>Orator</i> ..... F. G. T. Lucas.	“..... Miss M. Watt.
<i>Prophet</i> ..... H. M. P. Deroche.	“..... P. A. Carson.
<i>Ath. Dir.</i> ..... E. P. Brown.	“..... F. H. Wood.

## 1902.

<i>Pres.</i> ..... R. J. Hamilton.	<i>Historian</i> ..... Miss E. M. Bilton.
<i>1st Vice-Pres.</i> ..... Miss E. L. E. Peers.	“..... Miss E. M. Dickson.
<i>2nd Vice-Pres.</i> ..... E. R. Patterson.	<i>Color Com.</i> ..... Miss M. MacMahon.
<i>Sec.</i> ..... W. Mac. Mackay.	“..... Miss A. May.
<i>Treas.</i> ..... W. L. Bray.	“..... N. R. Gray.
<i>Mus. Dir.</i> ..... Edm. Hardy, Mus. Bac.	“..... I. H. Woods.
<i>Ath. Dir.</i> ..... H. J. Hills.	<i>Councillor</i> ..... Miss B. King.
<i>Judge</i> ..... A. Russel.	“..... Miss J. M. Easson.
<i>Critic</i> ..... R. M. Stewart.	“..... Miss M. L. Wallace.
<i>Orator</i> ..... J. A. Soule.	“..... A. Cohen.
<i>Prophetess</i> ..... Miss J. A. Fraser.	“..... J. A. Reid.
<i>Poetess</i> ..... Miss M. E. Marshall.	“..... E. H. Oliver.

## Classical Association.

## OFFICERS.

<i>Pres.</i> ..... H. R. Trumpour, '00.	<i>Sec.</i> ..... E. J. Kylie, '01.
<i>1st Vice-Pres.</i> ..... J. E. Wetherell, '01.	<i>Treas.</i> ..... J. A. Martin, '02.
<i>2nd Vice-Pres.</i> ..... Miss A. Maye, '02.	<i>4th Yr. Coun.</i> ..... Miss E. Creighton, '00.

First Year Councillor to be elected in October.

## Modern Language Club.

## OFFICERS.

<i>Hon. Pres.</i> ..... D. R. Keys, M.A.	<i>Rec. Sec.</i> ..... N. F. Shenstone, '01.
<i>Pres.</i> ..... R. M. Millnan, '00.	<i>Treas.</i> ..... A. E. Hamilton, '02.
<i>1st Vice-Pres.</i> ..... A. Baker, '01.	<i>Asst. - Treas.</i> ..... Miss Ward, '01.
<i>2nd Vice-Pres.</i> ..... Miss Gall, '00.	<i>2nd Yr. Rep.</i> ..... Miss Robinson, '02.
<i>Cor. Sec.</i> ..... W. Elmslie, '00.	

Two Representatives from First Year to be elected in October.

## Mathematical and Physical Society.

## OFFICERS.

<i>Pres.</i> ..... A. M. Scott, Ph.D.	<i>4th Yr. Coun.</i> ..... J. W. Fisher.
<i>1st Vice-Pres.</i> ..... H. Lang, '00.	<i>3rd</i> ..... Miss H. E. Wigg.
<i>2nd Vice-Pres.</i> ..... Miss M. I. Fleming, '00.	<i>2nd</i> ..... R. M. Stewart.
<i>Sec. Treas.</i> ..... A. G. McPhedran, '01.	<i>Rep. of Phy. and Chem.</i> .....
<i>Cor. Sec.</i> ..... A. C. Campbell, '00.	W. C. Good, '00

\* First Year Councillor to be elected next term.





### Ladies' Mandolin and Guitar Club.

#### OFFICERS.

<i>Hon. Pres</i> .....	Mrs. Carruthers.	<i>Treas</i> .....	Miss Kathleen Barr, '01.
<i>Pres.</i> .....	Miss Amy Morrison, '99.	<i>Grad. Coun.</i> ..	Miss E. M. Balmer, B.A.
<i>Sec.</i> .....	Miss Laura M. Mason, '00.		

### Athletic Board.

This Board, which has been constituted for the promotion of Athletic Sports, has entire supervision and control of all athletic matters within and without the precincts of the University, subject to such conditions as the Councils or the Joint Committee thereof, may impose from time to time.

#### OFFICERS.

##### 1898-99.

President London, <i>Chairman</i> .	A. E. Snell, '99.
Professor Fletcher.	W. E. Douglas, '99.
C. H. C. Wright, B.A.Sc.	T. A. Russell, '99, <i>Secretary</i> .

##### 1899-1900.

President London, <i>Chairman</i> .	R. Telford, '00.
Professor Fletcher.	W. G. Harrison, '00.
C. H. C. Wright, B.A.Sc.	J. J. Gibson, '00, <i>Secretary</i> .

### Athletic Association.

#### OFFICERS.

<i>Hon. Pres</i> .....	President London.	<i>Rep. Victoria</i> .....	J. Davidson, '00.
<i>Pres</i> .....	R. Telford.	" "	McCulloch, '01.
<i>Vice-Pres</i> .....	W. G. Harrison.	" <i>Dentals</i> .....	A. E. Rudell.
<i>Sec. Treas</i> .....	John J. Gibson.	" "	G. Trewin.
<i>Rep. Arts</i> .....	W. Campbell, '01.	" <i>Knox</i> .....	A. McLeod.
" "	Aylesworth, '01.	" <i>Rugby Club</i> ..	J. T. R. Burnside.
" "	S. P. Biggs, '02.	" <i>Assn. Club</i> ..	L. R. Whiteley.
" <i>S.P.S.</i> .....	J. T. R. Burnside.	" <i>Hockey Club</i> ..	A. J. Isbester.
" "	G. Hunt.	" <i>Lacrosse Club</i> ..	A. E. Snell.
" "	G. Bertram.	" <i>Base Ball Club</i> ..	J. Parry.
" <i>Medicine</i> .....	R. Parry, '00.	" <i>Cricket Club</i> ..	M. C. Cameron.
" "	F. A. Cleland, '01.	" <i>Tennis Club</i> ..	A. N. W. Clare.
" "	B. C. Ansley, '02.	" <i>Rowing Club</i> ..	V. E. Henderson.

The Annual University Games will be held on Friday, October 13th, and the Inter-College Athletic Meet will be held in Montreal, on Friday, October 20th.

#### The Gymnasium.

The Gymnasium, including gymnasium proper, locker rooms, baths, and the bowling alley, is open daily from 8.30 a.m. to 6 p.m. to all Members. Instruction will be given to classes by Sergeant Williams at the following hours:—

<i>Gymnasium Class</i> ..	4.30-6 p.m.	Mondays, Wednesdays and Fridays.
<i>Fencing Class</i> .....	4-6 p.m.	Tuesdays and Thursdays.
<i>General Work</i> .....		Saturdays, and when special work is not required.

Instruction may also be had in boxing, quarter-staff, bayonet, club-swinging, dumb-bells and other exercises. During the hours that Class work is going on all Members other than those in the Class will be excluded from the floor. All Members wishing information as to further regulations are requested to apply to the Instructor, Sergeant Williams, or to some of the Members of the Executive.

JOHN J. GIBSON, *Sec.-Treas.*

**Golf Club.**

## OFFICERS.

<i>Captain</i> .....	Professor Ramsay Wright.	<i>Committee</i> .....	Dr. G. H. Needler.
<i>Sec.-Treas.</i> .....	M. C. Cameron.	“	W. H. Cronan, B.A.
<i>Committee</i> .....	Professor Ellis.	“	H. F. Gooderham.
“	Professor Wrang.		

**Cricket Club.**

## OFFICERS.

<i>Hon. Pres.</i> .....	Mr. Justice Street.	<i>Hon. Sec.-Treas.</i> .....	E. P. Brown.
<i>Hon. Vice-Pres.</i> .....	Pelham Edgar, Ph.D.	<i>Curator</i> .....	A. Mullin.
<i>Pres.</i> .....	R. S. Waldie.	<i>Committee</i> .....	W. A. Mackenzie.
<i>Vice-Pres.</i> .....	T. D. Archibald.	“	E. G. Powell.
<i>Captain</i> .....	M. C. Cameron.	“	S. F. Shenstone.

**Association Football Club.**

## OFFICERS.

<i>Hon. Pres.</i> .....	Dr. Johnston.	<i>Captain</i> .....	L. R. Whiteley, '00.
<i>Pres.</i> .....	A. N. W. Clare, '00.	<i>Councillors</i> .....	W. G. Harrison, '00.
<i>Vice-Pres.</i> .....	R. Smillie, '01.	“	W. Campbell, '01.
<i>Sec.</i> .....	S. V. Dymont, '00.	“	Biggs, '02.
<i>Treas.</i> .....	E. F. Burton, '01.		

**Rugby Football Club.**

## OFFICERS.

<i>Hon. Pres.</i> .....	Prof. McCurdy.	<i>2nd Yr. Rep.</i> .....	A. W. McKenzie.
<i>Hon. Vice-Pres.</i> .....	W. J. Loudon, B.A.	<i>3rd and 4th Yr. Med.</i> .....	N. Montizambert.
<i>Pres.</i> .....	A. J. McKenzie, B.A.	<i>1st and 2nd Yr. Med.</i> .....	B. C. Ansley.
<i>Vice-Pres.</i> .....	G. W. Ross.	<i>Dental Rep.</i> .....	A. H. Mason.
<i>Sec.-Treas.</i> .....	John J. Gibson.	<i>Knox Rep.</i> .....	J. McArthur.
<i>4th Yr. Rep.</i> .....	R. A. Armstrong.	<i>St. Michael's Rep.</i> .....	A. J. Staley.
<i>3rd Yr. Rep.</i> .....	E. P. Brown.		

**University of Toronto Rowing Club.**

## OFFICERS.

<i>Hon. Pres.</i> .....	James G. Merrick, B.A.	<i>Manager</i> .....	A. H. Hutchinson.
<i>Pres.</i> .....	Dr. A. A. Small.	<i>Exec. Com.</i> .....	J. H. F. Fisher.
<i>Vice-Pres.</i> .....	W. E. Douglas.	“	E. D. Carder.
<i>Sec.-Treas.</i> .....	V. E. Henderson.		

*Advisory Board:* President Loudon, Professors Baker, Hutton, Reeve, Messrs. Byron E. Walker, T. G. Blackstock, and William Macdonald (Hon. Treas.). The Club is in affiliation with the Argonaut Rowing Club, and has full use of their splendid Club House. It possesses two working-fours and a four-oared shell.

**Lawn Tennis Club.**

## OFFICERS.

<i>Hon. Pres.</i> .....	Prof. McCurdy.	<i>Coun.</i> .....	G. Bertram.
<i>Pres.</i> .....	C. E. Treble.	“	C. L. Wilson.
<i>Vice-Pres.</i> .....	A. N. W. Clare.	“	J. Chisholm.
<i>Sec.-Treas.</i> .....	E. R. Paterson.		

*Patrons:* President Loudon; Hon. Wm. Mulock, LL.D., Q.C.; John Hoskin, LL.D., Q.C.; A. Carruthers, M.A.; G. H. Needler, B.A., Ph.D.; Rev. Elmore Harris; Andrew Rutherford, Esq.

**Ladies' Lawn Tennis Club.**

## OFFICERS.

<i>Hon. Pres.</i> . . . . . Mrs. Fletcher.	<i>4th Yr. Coun.</i> . . . Miss M. M. Lang, '00.
<i>Pres.</i> . . . . . Miss M. E. Mason, '00.	<i>Grad. Coun.</i> . . . Miss J. M. Johnston.
<i>Vice-Pres.</i> . . . . Miss B. B. White, '01.	<i>2nd Yr. Coun.</i> . . . Miss M. Marshall, '02.
<i>Sec.-Treas.</i> . . . . Miss A. E. Crane, '01.	<i>Curator</i> . . . . . Miss L. M. Mason, '00.

**Hockey Club.**

## OFFICERS.

<i>Hon. Pres.</i> . . . . . Byron E. Walker.	<i>Captain.</i> . . . . . A. E. Snell.
<i>Hon. Vice-Pres.</i> . . W. T. Jennings, C.E.	<i>Delegate to O.H.A.</i> . . . A. J. Isbester.
<i>Pres.</i> . . . . . R. Y. Parry.	" . . . . . H. F. Gooderham.
<i>Mngr.</i> . . . . . A. A. Sheperd.	<i>Com.</i> . . . . . J. R. Parry.
<i>Sec.-Treas.</i> . . . . A. J. Isbester.	" . . . . . A. W. McKenzie.

**Base Ball Club.**

## OFFICERS.

<i>Hon. Pres.</i> . . . . . Prof. Ramsay Wright.	<i>1st Yr. Rep.</i> . . . . . A. W. McKenzie.
<i>Pres.</i> . . . . . F. K. Johnston.	<i>1st and 2nd Yr. Med.</i> . . . . R. Davey.
<i>1st Vice-Pres.</i> . . . W. A. Stratton.	<i>3rd and 4th Yr. Med.</i> . . . . .
<i>2nd Vice-Pres.</i> . . . J. R. Meredith.	A. J. G. MacDougall.
<i>Captain</i> . . . . . J. R. Parry.	<i>Victoria College Rep.</i> . . . A. E. Fisher.
<i>Manager</i> . . . . . F. D. McEntee.	<i>S. P. S. Rep.</i> . . . . . W. P. Brereton.
<i>Curator.</i> . . . . . A. J. Hills.	<i>Dental College Rep.</i> . . . R. McDonald.
<i>4th Yr. Rep.</i> . . . . D. A. Sinclair.	<i>Pharmacy Rep.</i> . . . . . J. Christmas.
<i>3rd Yr. Rep.</i> . . . . L. E. Jones.	<i>St. Michael's Rep.</i> . . . . W. O'Connor.
<i>2nd Yr. Rep.</i> . . . . W. O. Watson.	

**Fencing Club.**

## OFFICERS.

<i>Hon. Pres.</i> . . . . . E. I. Sifton.	<i>Sec.-Treas.</i> . . . . W. J. Fuller, S.P.S.
<i>Pres.</i> . . . . . R. M. Millman, '00.	<i>Maitre d'Armes.</i> . . . . Sergt. Williams.
<i>Vice-Pres.</i> . . . . G. M. Bertram, S.P.S.	

**Chess Club.**

## OFFICERS.

<i>Hon. Pres.</i> . . . . Prof. Maurice Hutton.	<i>Sec.</i> . . . . . R. A. Cassidy, '01.
<i>Pres.</i> . . . . . S. F. Shenstone, '00.	<i>Treas.</i> . . . . . H. S. Banwell, '02.
<i>Vice-Pres.</i> . . . . A. W. Keith, '00.	<i>S.P.S. Rep.</i> . . . . . D. L. H. Forbes.

A Curator is to be appointed from the incoming First Year.

**Women's Fencing Club.**

## OFFICERS.

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