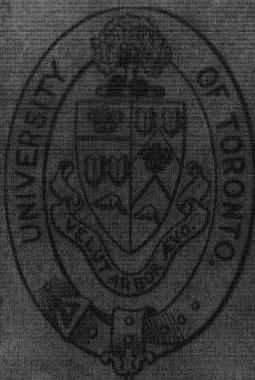


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THE
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OF THE
UNIVERSITY OF TORONTO
FOR THE YEAR

1894-95.



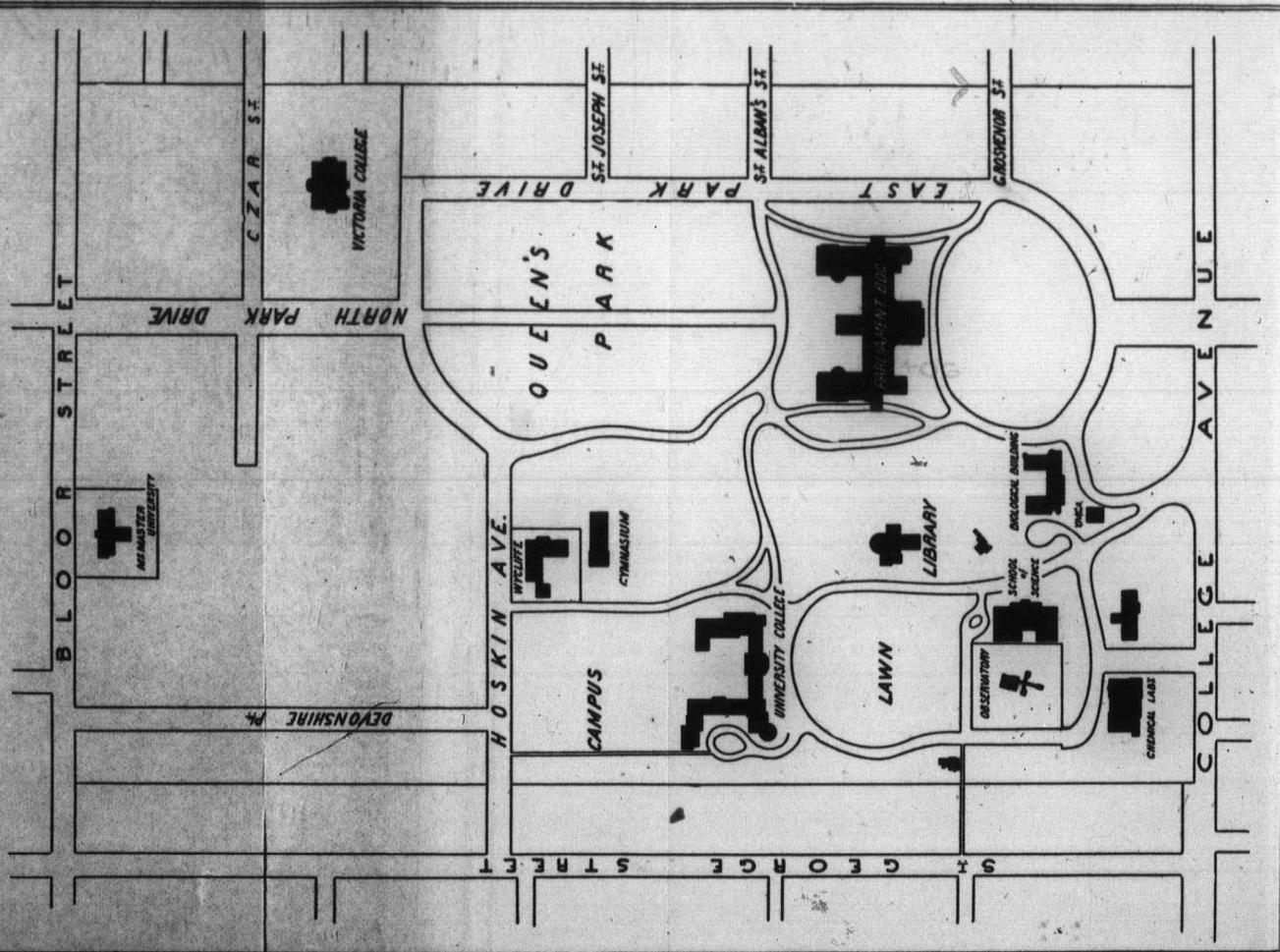
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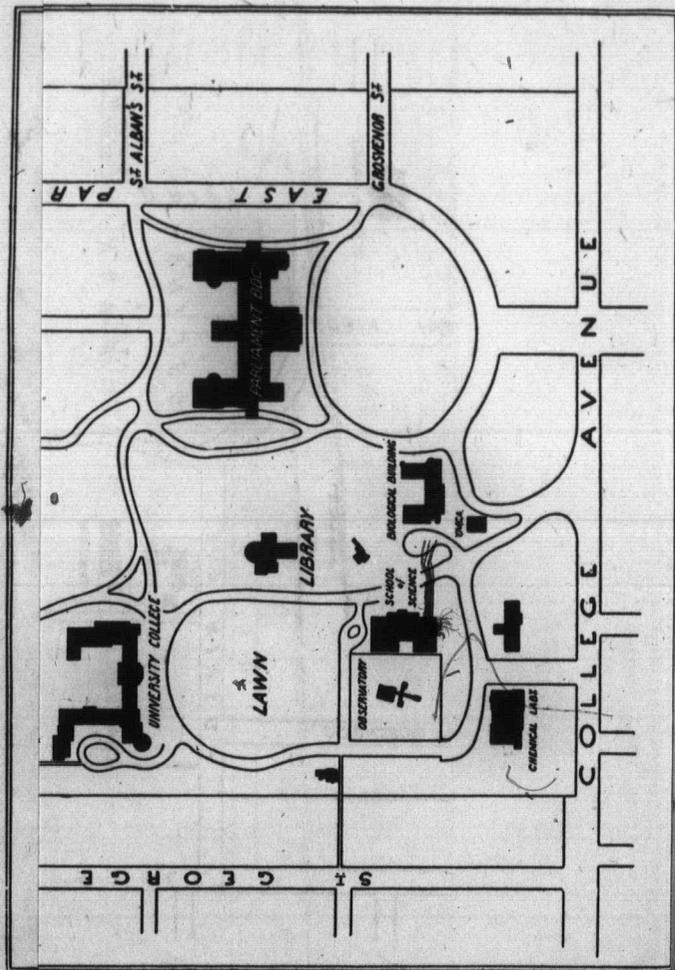
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1894-95.



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1894.



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CALENDAR, 1894-95.

Meetings of the University Council are held on the last Tuesday of September, and on the first Tuesday 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 Medical Faculty on the first Friday of each month, from October till May, inclusive.

1894—Sept. 14—Supplemental Examinations in all Faculties begin.

Oct. 1—Academic year begins.

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

Oct. 2—Lectures in Arts and Medicine begin.

Oct. 5—University College Convocation.

Dec. 21—Michaelmas Term ends.

Dec. 25—University Buildings closed.

1895—Jan. 1—University Buildings closed.

Jan. 3—Easter Term begins.

Lectures in Arts and Medicine begin.

Feb. 27—University Buildings closed.

March 20—Lectures in Medicine end.

March 27—Annual Examinations in Medicine begin.

April 9—Annual Meeting of Medical Faculty.

April 12—University Buildings closed.

April 15—Examinations in School of Practical Science begin.

April 19—Lectures in Arts end.

April 25—Annual Examinations in Law begin.

May 1—Annual Examinations in Arts begin.

Last day for presentation of M.A. theses.

May 24—University Buildings closed.

June 1—Applications for Fellowships.

June 11—University Commencement.

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.
First Year.

	<i>Monday.</i>	<i>Tuesday.</i>	<i>Wednesday.</i>	<i>Thursday.</i>	<i>Friday.</i>
9	Biology. *Elementary Analytical Geometry.	Mathematics E. Euclid. <i>English.</i>	Biology. Mathematics E. Trigo- nometry.	Mathematics E. Algeb. <i>Latin A. B. C.</i>	Biology. Mathematics E. Trig- onometry.
10	Mathe- } A. Algebra, matics } C. Trigonom.	Physics.	Mathe- } A. B. matics } C. D. Euclid.	* <i>Greek.</i> Physics.	Mathe- } D. Algebra, matics } E. Trigonom.
11	<i>Latin Prose A. B. C.</i> * <i>Greek (b).</i>	Mathe- } B. Algebra, matics } D. Trigonom. * <i>Greek Prose.</i>	<i>Greek Prose.</i> * <i>Latin (b).</i>	Mathe- } C. Algebra, matics } A. Trigonom. * <i>Classics.</i>	<i>English.</i>
12	*Mathematics. **Elem. Physics (a). <i>Ancient History.</i>	Mathematics. * <i>Italian.</i> <i>Greek.</i>	**Elem. Physics (a). <i>Latin (b) A. B. C.</i>	*Mathematics. * <i>Italian.</i> * <i>Latin.</i>	**Elem. Physics (a). *Phonetics. * <i>Latin Prose.</i>
1					
2	<i>French A. B. C.</i>	*Practical Biology. * <i>French.</i>	* <i>French.</i> <i>French B. C.</i>	*Practical Biology.	* <i>French.</i> <i>French A. C.</i>
3	* <i>German.</i> <i>German A. B.</i>	*Practical Biology. <i>Hebrew.</i>	* <i>German.</i> <i>German A. B.</i>	*Practical Biology. <i>Hebrew.</i>	<i>German A. & B.</i>
4			* <i>English.</i>	* <i>German.</i>	<i>Hebrew.</i>
5					

Second Year.

9	*French. French B. C. Physics. *Italian. *English Const. History.	German B. *English. *Can. Const. History. *Biology. *Latin. *Italian. *Greek Prose. *Economics. *Chemistry. *Spanish. *Geology.	French A. B. *French. *Elem. Calculus. *Greek (a). *Latin (b). *Can. Const. History. *Greek Prose.	English. *Biology. Latin A. B.	*†Elementary Calculus. *Latin. German B. Physics. *Eng. Const. History. *Greek. History. *Inorganic Chemistry. *Psychology. *Latin Prose. *Mathematic. *Physiology (b). *Orientals. *Latin Prose A. B.
10					
11	History. *Inorganic Chemistry. *Philosophy.		Chemistry. Logic.	*Chemistry. *Economics. *Spanish. *Geology. *Classics.	
12	*Greek (b). *Mathematics. *Physiology (b). Latin (a) A. B.	*Mathematics. Psychology.	*Mathematics. *Physiology. *Eng. Const. History. *Greek.	*Mathematics. *Logic (b). Psychology (a).	
1					
2	*Practical Biology.	*Orientals French A. C.	*Practical Biology. *Orientals.	*Practical Chemistry. *French. *Hebrew.	*Practical Biology. *Orientals. *Greek.
3	*Practical Biology. *Hebrew.	German A. *Practical Mineralogy.	*Practical Biology. *Orientals.	*Practical Chemistry. *German.	*Practical Biology. *German.
4	*Practical Chemistry.	*Practical Mineralogy. *German.	German A.	*Practical Chemistry. German A. & B.	
5	*Practical Chemistry.			*Practical Chemistry.	

Third Year.

9	*Practical Biology. *Ethics (a). *Ethics. *Latin Prose.	History.	*Latin. *Practical Biology. *Psychology.	*French. *French. *Greek.	*Practical Biology. History.
10	*Practical Biology. *French. *History of Philosophy.	*French. *Economics. *Latin (a). *Greek (b).	*French. Practical Biology. Physios (a). Greek Prose.	*Practical Psychology. *Economics. *German. *Greek.	Practical Biology. *Economics. *Ethics.
11	*Practical Biology. *German. *Greek. *Physics. *Roman Law.	*Practical Psychology. *Roman Law.	*Ethics. *Biology. *Roman Law. Latin. German.	*French. *Psychology. *Practical Psychology. *Roman Law.	*French. *Biology. *Roman Law. *Classics.
12	English. *Practical Biology.	Constitutional History. *Geology. *Latin. *Practical Psychology.	*Geology or Mineralogy. *Physics. English.	*Geology or Mineralogy. *Ethics (a). *Ethics.	Latin Prose. *Physics. *Greek Prose. *Orientals.
1				*Greek.	
2	*Practical Biology. *Practical Physics. Constitutional History. *Orientals.	*Practical Chemistry. *Italian	Practical Physics. *Practical Mineralogy. *Practical Biology. *Italian.	*Practical Geology. *German. *Orientals.	*Practical Chemistry. *Hebrew.
3	*Practical Biology. *Organic Chemistry. *English. *Practical Physics. Constitutional Law.	*Practical Chemistry. *Spanish. *Orientals. Constitutional Law.	*Practical Physics. *Practical Mineralogy. *Spanish. *Organic Chemistry. Constitutional Law.	*Practical Geology. *Spanish.	*Practical Chemistry. *Organic Chemistry. *English. *Orientals.
4	*Organic Chemistry. *Practical Physics.	*Geology. *Physical Chemistry (b). German.	*Practical Physics. *Practical Mineralogy. *Practical Biology. German.	*Practical Mineralogy. *Italian. *Physical Chemistry (b).	*Practical Chemistry. *Organic Chemistry.
5					

Fourth Year.

4	*Organic Chemistry. *Practical Physics.	*Physical Chemistry (b). <i>German.</i>	*Practical Mineralogy. *Practical Biology.	*Physical Chemistry (b). *Organic Chemistry.
5				
Fourth Year.				
9	*Physiological Chemistry. *Mathematics. *Metaphysics. *Latin Prose.	*Embryology and Histology. *Latin (b). *Mathematics. *History of Philosophy. *Orientals.	*Physiological Chemistry. *Mathematics. *History of Philosophy. *German.	*Mathematics. *Italian. *English.
10	*Physiological Chemistry. *Physics. *History of Philosophy. *Greek. *Latin. *English.	*Physiological Demon- strations. *Physics. *French. *Greek. *Ethics. *Latin.	*Physiological Chemistry. *Greek (b). *Ethics. *French. *Greek Prose.	*Latin. *Physics. *Embryology and His- tory. *History of Philosophy. *Spanish.
11	*Physiology. *English. *Orientals.	*Physiological Demon- strations. *Economics. *English.	*Economics. [strations. *Physiological Demon- strations. *Metaphysics. *Spanish. *English.	*Classics. *Physics. *Metaphysics. *French. *Greek Prose. *Latin Prose. *Greek Prose. *Orientals.
12	*German.	*German. *Latin (a).	*Italian. *English.	*Italian. *German.
1	*Mineralogy or Geology. *Greek.	*Mineralogy or Geology.	*Mineralogy or Geology. *Greek.	*Assaying.
2	*International Law. *Italian.	*International Law.	*International Law.	*Assaying.
3	*Economics. *Spanish.	*Mineralogy or Geology. *Economics.	*Economics. *Hebrew.	*Economics. *Assaying.
4	*Chemistry.	*Chemistry. *Mineralogy or Geology. *German.	*Chemistry. *Mineralogy or Geology.	*Chemistry. *Assaying.
5				

(e) During Michaelmas Term. (b) During Easter Term.
 School of Sciences Students attend Mathematics Division E. of First Year.
 † Students in Honor Natural Science and Medicine.
 ‡ Students in Honor Chemistry and Mineralogy.

University and University College.

Officers of Instruction.

[ARRANGED IN ALPHABETICAL ORDER IN GROUPS.]

University of Toronto— Arts.

- F. B. ALLAN, B.A., *Lecture-Assistant in Chemistry.* 410 Markham Street.
- ALFRED BAKER, M.A., *Professor of Mathematics.*
- R. R. BENSLEY, B.A., M.B., *Assistant-Demonstrator in Biology.* 630 Bathurst Street.
- C. A. CHANT, B.A., *Lecturer on Physics.* 61 Wood Street.
- E. J. CHAPMAN, Ph.D., LL.D., *Professor of Mineralogy and Geology.* 65 St. Patrick Street.
- F. J. A. DAVIDSON, M.A., *Fellow in Italian and Spanish.* 105 Bedford Road.
- A. T. DELURY, B.A., *Lecturer on Mathematics.* University College Residence.
- W. H. ELLIS, M.A., M.D., *Demonstrator in Chemistry.* 74 St. Alban Street.
- W. H. FRASER, B.A., *Associate-Professor of Italian and Spanish.* 67 Madison Avenue.
- G. F. HULL, B.A., *Fellow in Physics.* 425 Church Street.
- J. G. HUME, B.A., Ph.D., *Professor of History of Philosophy.* 42 Grange Avenue.
- MAURICE HUTTON, M.A., *Professor of Comparative Philology.* 67 Queen's Park.
- E. C. JEFFREY, B.A., *Lecturer on Biology.* 142 Bloor Street West.
- A. KIRSCHMANN, Ph.D., *Lecturer and Demonstrator in Philosophy.* University College Residence.
- JAMES LOUDON, M.A., LL.D., *Professor of Physics.* 83 St. George's Street.
- W. J. LOUDON, B.A., *Demonstrator in Physics.* 7 Bedford Road.
- J. MAVOR, *Professor of Political Economy and Constitutional History.* University College Residence.

- W. L. MILLER, B.A., Ph.D., *Demonstrator in Chemistry.* 50 St. Alban Street.
 HON. DAVID MILLS, LL.B., *Professor of Constitutional and International Law.* London, Ont.
 J. MUNRO, B.A., *Fellow in Chemistry.* 5 Russell Street.
 A. B. MACALLUM, B.A., M.B., Ph.D., *Associate-Professor of Physiology.* 103 Bedford Road.
 T. McCRAE, B.A., *Fellow in Biology.* 240 Huron Street.
 J. C. McLENNAN, B.A., *Assistant-Demonstrator in Physics.* 161 Beverley Street.
 J. W. ODELL, B.A., *Fellow in Mathematics.* 41 Oxford Street.
 W. A. PARK, B.A., *Fellow in Mineralogy and Geology.* 75 St. George Street.
 W. H. PIKE, M.A., Ph.D., *Professor of Chemistry.* 3 Queen's Park.
 HON. MR. JUSTICE PROUDFOOT, *Professor of Roman Law.* 38 Division Street.
 C. A. STUART, B.A., *Fellow in Political Science.* 42 Gloucester Street.
 F. TRACY, B.A., Ph.D., *Special Lecturer on Philosophy.* 703 Spadina Avenue.
 R. RAMSAY WRIGHT, M.A., B.Sc., *Professor of Biology.* 80 Avenue Road.
 REV. G. M. WRONG, B.A., *Lecturer on Modern History.*

University College—Arts.

- W. J. Alexander, B.A., Ph.D., *Professor of English.* 110 Avenue Road.
 J. H. CAMERON, B.A., *Lecturer on French.* 667 Spadina Avenue.
 A. CARRUTHERS, B.A., *Lecturer on Greek.* 88 Macdonnell Avenue.
 W. DALE, M.A., *Associate-Professor of Latin and Lecturer on Roman History.* University College Residence.
 F. B. R. HELLEMS, B.A., *Fellow in Latin.* University College Residence.
 J. P. HUBBARD, B.A., *Fellow in German.* 196 Brock Avenue.
 J. G. HUME, B.A., Ph.D., *Professor of Ethics.* 42 Grange Avenue.
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- W. S. MILNER, B.A., *Lecturer on Latin.* 33 Sussex Avenue.
 J. F. McCURDY, Ph.D., *Professor of Oriental Literature.* 490 Spadina Avenue.
 D. W. MCGEE, B.A., *Lecturer on Oriental Literature.* 52 Sussex Avenue.
 G. H. NEEDLER, B.A., Ph.D., *Lecturer on German.* University College Residence.
 J. SQUAIR, B.A., *Associate-Professor of French.* 61 Major Street.
 W. H. VANDERSMISSEN, M.A., *Associate-Professor of German.* Mimico.
 C. WHETHAM, M.A., *Fellow in French.* 18 Grange Avenue.

Victoria University—Arts.

- REV. E. I. BADGLEY, M.A., LL.D., *Egerton Ryerson Professor of Mental and Moral Philosophy.* 98 Avenue Road.
 A. R. BAIN, M.A., LL.D., *Professor of Ancient History.*
 A. J. BELL, Ph.D. (Bresl.), *Professor of Latin Language and Literature.* 17 Avenue Road.
 REV. N. BURWASH, S.T.D., LL.D., *Professor of Civil Polity.* 15 Linden Street.
 MONSIEUR J. CUSIN, *Instructor in French.* 20 Queen Street West.
 W. FICK, Ph.D. (Bresl.), *Instructor in German.*
 L. E. HORNING, M.A., Ph.D. (Göttingen), *Professor of German and Old English.*
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 J. PETCH, M.A., *Professor of the French Language and Literature.* 85 Czar Street.
 REV. A. H. REYNAR, M.A., LL.D., *Professor of Modern Languages and English Literature.*

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- R. R. BENSLEY, B.A., M.B., Tor., *Assistant-Demonstrator in Biology.* 630 Bathurst Street.
- G. H. BURNHAM, M.D., Tor., F.R.C.S., Edin., *Clinical Lecturer on Ophthalmology and Otology.* 214 John Street.
- I. H. CAMERON, M.B., Tor., *Professor of Clinical Surgery.* 307 Sherbourne Street.
- F. W. CANE, M.B., Tor., *Assistant-Demonstrator of Anatomy.* 141 Queen Street East.
- J. CAVEN, B.A., M.D., Tor., *Professor of Pathology.* 239 Carlton Street.
- W. P. CAVEN, M.B., Tor., *Lecturer on Clinical Medicine.* 70 Gerrard Street East.
- C. A. CHANT, B.A., Tor., *Lecturer on Physics.* 61 Wood Street.
- DANIEL CLARK, M.D., Tor., *Extra-Mural Professor of Mental Diseases.* Asylum for Insane, Queen Street West.
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- A. R. GORDON, M.B., Tor., *Assistant-Demonstrator of Anatomy.* 323 College Street.
- J. E. GRAHAM, M.D., Tor., M.R.C.P., Lond., *Professor of Medicine and Clinical Medicine.* 70 Gerrard Street East.
- C. F. HEEBNER, Phm.B., Tor., *Demonstrator of Materia Medica and Elementary Therapeutics.* 31 Prospect Street.
- JAMES LOUDON, M.A., LL.D., Tor., *Professor of Physics.* 83 St. George Street.
- W. L. MILLER, B.A., Tor., Ph.D. (Münich), *Lecturer on Chemistry.* 50 St. Alban Street.
- HON. DAVID MILLS, LL.B., Q.C., *Legal Lecturer on Medical Jurisprudence.* London, Ont.
- A. B. MACALLUM, B.A., M.B., Tor., Ph.D., Johns Hopkins, *Professor of Physiology.* 103 Bedford Road.
- J. M. MACCALLUM, B.A., M.D., Tor., *Professor of Pharmacology and Therapeutics.* 13 Bloor Street West.
- G. R. McDONAGH, M.D., Tor., *Clinical Lecturer on Laryngology and Rhinology.* 329 Church Street.
- L. McFARLANE, M.D., Tor., *Professor of Clinical Surgery.* 26 Gerrard Street East.
- B. E. MCKENZIE, B.A., M.D., McGill, *Assistant-Demonstrator of Anatomy.* 14 Bloor Street West.
- A. McPHERDAN, M.B., Tor., *Associate-Professor of Medicine and Clinical Medicine.* 84 College Street.

- UZZIEL OGDEN, M.D., Tor., *Professor of Gynecology.* 18 Carlton Street.
- W. OLDRIGHT, M.A., M.D., Tor., *Professor of Hygiene.* 154 Carlton Street.
- G. A. PETERS, M.B., Tor., F.R.C.S., Eng., *Associate-Professor of Surgery and Clinical Surgery.* 171 College Street.
- W. H. PIKE, M.A., Oxon., Ph.D., Göttingen, *Professor of Chemistry.* 75 St. George Street.
- A. PRIMROSE, M.B., C.M., Edin., *Associate-Professor and Demonstrator of Anatomy.* 186 Simcoe Street.
- R. A. REEVE, B.A., M.D., Tor., *Professor of Ophthalmology and Otolary.* 199 Victoria Street.
- J. H. RICHARDSON, M.D., Tor., *Professor of Anatomy.* 36 St. Joseph Street.
- B. SPENCER, M.D., Tor., *Lecturer on Medical Jurisprudence.* 8 Bloor Street East.
- F. N. G. STARR, M.B., Tor., *Senior Assistant-Demonstrator of Anatomy.* 393 Markham Street.
- W. B. THISTLE, M.D., Tor., *Assistant-Demonstrator of Anatomy.* 160 McCaul Street.
- F. WINNETT, M.D., Tor., *Assistant-Demonstrator of Anatomy.* 11 Wilton Avenue.
- A. H. WRIGHT, B.A., M.D., Tor., *Professor of Obstetrics.* 30 Gerrard Street East.
- R. RAMSAY WRIGHT, M.A., B.Sc., Edin., *Professor of Biology.* 703 Spadina Avenue.

Examiners, 1894.

Arts.

- Classics*: J. C. ROBERTSON, B.A.; A. CARRUTHERS, B.A.; W. S. MILNER, B.A.;
REV. H. J. CODY, M.A.; A. L. LANGFORD, M.A.; C. A. STUART, B.A.;
S. W. PERRY, M.A.; F. B. R. HELLEMS, B.A.; N. QUANCE, B.A.; E.
W. HAGARTY, B.A.
- Ancient History*: W. S. MILNER, B.A.; C. A. STUART, B.A.
- Mathematics*: A. T. DELURY, B.A.; R. HENDERSON, B.A.; I. J. BIRCHARD,
M.A., Ph.D.; W. J. ODELL, B.A.
- Physics*: C. A. CHANT, B.A.; J. C. MCLENNAN, B.A.
- English*: D. R. KEYS, M.A.; W. PAKENHAM, B.A.; FLORENCE V. KEYS, B.A.;
W. FICK, Ph.D.; M. F. LIBBY, B.A.
- French*: J. H. CAMERON, B.A.; J. PETCH, M.A.; A. H. YOUNG, M.A.; C.
GUILLET, B.A.
- German*: ELIZA BALMER, B.A.; L. E. HORNING, M.A., Ph.D.; G. H. NEEDLER,
B.A., Ph.D.; J. P. HUBBARD, B.A.
- Italian and Spanish*: W. H. FRASER, B.A.; F. J. A. DAVIDSON, M.A.; S. B.
LEACOCK, B.A.

Oriental Languages : REV. J. F. McLAUGHLIN, M.A., B.D.
Chemistry : W. L. MILLER, B.A., PH.D.; J. MUNRO, B.A.
Mineralogy and Geology : W. G. MILLER, B.A.
Philosophy and Logic : F. TRACY, B.A., PH.D.; E. I. BADGLEY, B.D., LL.D.;
 REV. J. WALSH; J. G. HUME, M.A., PH.D.
History and Ethnology : REV. G. M. WRONG, B.A.; H. H. LANGTON, B.A.
Constitutional History and Political Economy : J. MAVOR; J. A. McLEAN, B.A.

Arts and Medicine.

Biology : R. R. BENSLEY, B.A., M.B.
Botany : J. J. MACKENZIE, B.A.
Physiology : A. B. MACALLUM, M.A., M.B., PH.D.

Junior Matriculation.

Classics : A. J. BELL, PH.D.; W. DALE, M.A.; W. S. MILNER, B.A.
Mathematics : A. T. DE LURY, B.A.; A. C. MCKAY, B.A.; N. F. DUPUIS, M.A.
English : W. J. ALEXANDER, PH.D.; A. CARRUTHERS, B.A.; W. TYTLER, B.A.
French and German : J. SQUAIR, B.A.; L. E. HORNING, PH.D.; A. H. YOUNG,
 M.A.
Physics, Chemistry, and Biology : C. A. CHANT, B.A.; R. R. BENSLEY, B.A.,
 M.B.; A. P. KNIGHT, M.A.

Supplemental Junior Matriculation.

Classics : W. S. MILNER, B.A.; A. CARRUTHERS, B.A.
Mathematics : A. C. MCKAY, B.A.; A. T. DELURY, B.A.
English and History : W. TYTLER, B.A.; A. CARRUTHERS, B.A.
French and German : A. H. YOUNG, M.A.; L. E. HORNING, PH.D.
Physics, Chemistry, and Biology : C. A. CHANT, B.A.; R. R. BENSLEY, B.A.,
 M.B.

Arts and Law.

Roman Law, Constitutional Law, History of Law, International Law, Juris-
prudence : W. R. RIDDELL, B.A., LL.B.; J. M. McEVROY, B.A., LL.B.

Law.

J. MCG. YOUNG, B.A.; W. H. McFADEN, B.A., LL.B.

Medicine.

Anatomy : A. PRIMROSE, M.B.; H. W. AIKINS, B.A., M.D.
Materia Medica : C. B. HEERNER, PHM.B.
Medicine : J. WHITE, M.A., M.D.
Surgery : D. B. FRASER, M.B.
Midwifery and Gynecology : U. OGDEN, M.D.
Pathology : J. CAVEN, B.A., M.D.
Therapeutics : A. MCKINNON, M.B.
Hygiene : W. OLDRIGHT, M.A., M.D.

Medical Jurisprudence : B. SPENCER, M.D.

Medical Psychology : N. H. BEEMER, M.B.

Chemistry : W. L. MILLER, B.A., Ph.D.

Physics : C. A. CHANT, B.A.

Civil Engineering.

WILLIS CHIPMAN, C.E.

Applied Science.

Chemistry : W. L. MILLER, B.A., Ph.D.

Mineralogy : A. P. COLEMAN, M.A., Ph.D.

Electricity : T. R. ROSEBRUGH, B.A.

Astronomy, Geodesy, and Least Squares : L. B. STEWART, P.L.S., D.L.S.

Steam Engineering and Hydraulics : T. R. ROSEBRUGH, B.A.; E. J. LASCHINGER,
B.A.Sc.

Strength of Materials and Architecture : C. H. C. WRIGHT, B.A.Sc.

Dentistry.

Operative Dentistry and Dental Pathology : W. REVELL, D.D.S., L.D.S.

Prosthetic Dentistry : F. KILMER, D.D.S., L.D.S.

Physiology and Dental Histology : G. H. WEAGANT, L.D.S.

Dental Materia Medica and Therapeutics : T. BETLER, D.D.S., L.D.S.

Medicine and Surgery as applied in Dentistry : T. ROWE, M.D., L.D.S.

Anatomy : D. CLARK, D.D.S., L.D.S.

Chemistry : S. MOYER, D.D.S., L.D.S.

Practical Dentistry : W. E. WILLMOTT, D.D.S., L.D.S.

Pharmacy.

Pharmacy : C. F. HEEBNER, Ph.M.B.

Chemistry : J. MUNRO, B.A.

Materia Medica : J. T. FOTHERINGHAM, B.A., M.D., C.M.

Botany : T. MCCRAE, B.A.

Agriculture.

Chemistry (General and Analytical) : REV. J. BURWASH, M.A., D.Sc.

Chemistry (Agricultural and Animal) : A. E. SHUTTLEWORTH, B.A., B.Sc.

Botany and Entomology : J. A. CRAIG, B.S.A.; T. MCCRAE, B.A.

English : M. F. LIBBY, B.A.

Drawing : F. R. HEAKES, Esq.

Geology : A. P. COLEMAN, M.A., Ph.D.

Latin : F. B. R. HELLEMS, B.A.

Dairying : G. HARCOURT, B.S.A.

Agriculture : HON. C. DRURY.

Mathematics : A. T. DELURY, B.A.

Music.

Theoretical : ARTHUR E. FISHER, Mus. Bac.

Practical : W. E. FAIRCLOUGH, Esq.

(3) <i>Elected</i> :	Representing :
HON. J. M. GIBSON, M.A., LL.B., Q.C., M.P.P.	<i>Graduates in Arts.</i>
HON. S. H. BLAKE, B.A., Q.C.	" "
A. BAKER, M.A.	" "
W. HOUSTON, M.A.	" "
W. H. VANDERSMISSEN, M.A.	" "
W. DALE, M.A.	" "
W. H. ELLIS, M.A., M.B.	" "
HON. W. G. FALCONBRIDGE, M.A.	" "
J. KING, M.A., Q.C.	" "
J. SEATH, M.A.	" "
REV. W. T. HERRIDGE, B.A.	" "
W. H. BALLARD, M.A.	" "
I. H. CAMERON, M.B.	<i>Graduates in Medicine.</i>
A. H. WRIGHT, B.A., M.D.	" "
L. McFARLANE, M.D.	" "
W. H. B. AIKINS, M.B.	" "
J. M. CLARK, M.A., LL.B.	<i>Graduates in Law.</i>
A. H. MARSH, B.A., LL.B., Q.C.	" "
J. J. MACLAREN, M.A., LL.D., Q.C.	<i>Graduates in Arts of Victoria University.</i>
W. KERR, M.A., LL.D., Q.C.	" " " "
REV. A. CARMAN, M.A., D.D.	" " " "
REV. A. BURNS, M.A., LL.D.	" " " "
W. W. DEAN, M.A.	" " " "
J. HENDERSON, M.A.	<i>High School Teachers of Ontario.</i>
H. E. SPOTTON, M.A.	" " " "

University Council.

THE PRESIDENT OF THE UNIVERSITY.

PROFESSOR CHAPMAN.	PROFESSOR J. CAVEN.
" R. RAMSAY WRIGHT.	" GRAHAM.
" PIKE.	ASSOC.-PROF. McPHERDAN.
" BAKER.	PROFESSOR J. M. McCALLUM.
" HUTTON.	" U. OGDEN.
" HUME.	" A. H. WRIGHT.
" A. B. MACALLUM.	" REEVE.
" RICHARDSON.	" OLDRIGHT.
ASSOC.-PROF. PRIMROSE.	ASSOC.-PROF. FRASER.
PROFESSOR W. T. AIKINS.	PROFESSOR MAJOR.
" McFARLANE.	" PROUDFOOT.
" CAMERON.	" MILLS.
ASSOC.-PROF. PETERS.	

Council and Corporation of University College.

THE PRESIDENT.

PROFESSOR HUTTON.	ASSOCIATE-PROFESSOR VANDERSMISSEN.
“ McCURDY.	“ “ DALE.
“ ALEXANDER.	“ “ SQUAIR.
“ HUME.	DEAN OF RESIDENCE: A. T. DELURY.

Organization of the University.

The management of the finances and the academic business of the University is entrusted 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:—

1. 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, and the president or head of each federating 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 federating 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 powers 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, Medicine, and Law. The Council has full powers with reference to instruction in the University, the discipline of students and student societies or associations, and the control of officers and servants in connection with the work of instruction. 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 federating University.

Administrative Officers.

* UNIVERSITY AND UNIVERSITY COLLEGE.

<i>President</i>	JAMES LOUDON, LL.D.
<i>Registrar</i>	JAMES BREBNER, B.A.
<i>Librarian</i>	HUGH H. LANGTON, B.A.
<i>Dean of Medical Faculty</i>	UZZIEL OGDEN, M.D.
<i>Secretary of Medical Faculty</i>	A. PRIMROSE, M.D.
<i>Bursar</i>	J. E. BERKELEY SMITH.

*For administrative officers of Federated and Affiliated institutions, see pp. 172, 191.

NOTE.—All communications relating to examinations are to be addressed to the Registrar.

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 Pass courses 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. 52-74. For further details, see also pp. 75-97.

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, Mathematics, English, History and Geography, and either Greek or French and German, or French with Physics or Chemistry, or German with Physics or Chemistry, are required of all candidates at Junior Matriculation; and Latin, English, History, Mathematics, Greek (or French and German) and Biology or Physics, are required at Senior Matriculation, the substitution of Hebrew for French or German being also allowed. Additional work in the various subjects is prescribed for honor standing. The ordinary Junior Matriculation examination is held in July,

and applications must be sent to the Education Department before 1st June. The ordinary Senior Matriculation is held in May, Supplemental examinations for both Junior and Senior Matriculation are held in September, and a Supplemental examination for Senior Matriculation in June, applications for such examinations being sent to the Registrar of the University of Toronto. A fee of five dollars must accompany all applications for the Junior Matriculation examination, and of ten dollars for Senior Matriculation or Supplemental examination. Provision is also made for admission *ad eundem statum*, the fee being six dollars, which must accompany the application to be made to the Registrar of the University. For details see pp. 36-38.

Examinations.

In addition to the Matriculation examinations 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 pass subjects, except Chemistry, 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, 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. 38, 41.

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, Comparative Philology, Italian and Spanish, History, Political Economy and Constitutional History, Constitutional and International Law, Roman Law, General Jurisprudence, and History of English Law; and to the Faculties of University College and Victoria University jointly: 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, and Wycliffe 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 authority to impose fines, to levy assessments for damage 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. It contains, besides a fire-proof book-room with a storage capacity of 120,000 volumes, a reading-room capable of seating upwards of 200 readers, a periodical-room, several seminary-

rooms, 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 50,000 volumes, together with upwards of 5,000 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 contains collections of the principal journals and transactions of the leading societies of Europe and America. In the Departments of Language and Literature, the works of all authors of primary or secondary importance from the origins of the language to the present time are available, as well as the principal philological and literary journals. 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. The seminary-rooms 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 their 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 Simms, clock by Dent, chronograph and clock-fork by Kœnig, exhaustion and compression pumps by Bianchi, Golaz, Alvergniat, 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 Duboseq, 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 Nachet 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.

The Psychological Laboratory which has recently been established, is situated in the west wing of the main University Building, in close proximity to the Physical Laboratory of which the apparatus is available for some of the experiments in Psychology. The Laboratory is well supplied with apparatus for work in Psychologies, and for the investigation of the time and space relations of mental phenomena.

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 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.

Pending the completion of the Chemical Building, at present in course of construction, accommodation is provided for laboratory work in Chemistry in the School of Prac-

tical Science. It is expected that the new Building will be completed within the present year. It will, in addition to two lecture-rooms with accommodation for 300 and 100 students respectively, contain 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 will exceed 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 Biological Museum forms the central portion of the buildings occupied by the Biological Department, and consists of four large well-lighted rooms with northern and southern aspect. The collections from the old museum are in great part intact, and are now being transferred to the new museum. Collections such as that purchased from Dr. Garnier, and including about a thousand specimens, chiefly of reptilian and avian forms, and the donations from the United States Fish Commission, the Paris Museum, the Museum of Comparative Anatomy at Cambridge, Mass., and other sources, have very largely increased the facilities of the Museum for the purposes of instruction. The cases in which the collections are arranged are dust, light and moth proof, and have been in large part adapted from the plans of those of the Dresden Museum. The upper portions of the cases contain the objects commonly used in the course of instruction, each object being accompanied with an explanatory card. These objects are so arranged in the cases, and so well lighted, that all their characteristics may be easily noted. Steps are now being taken to complete the equipment of the Museum for teaching purposes, and it is expected that satisfactory progress in this respect will have

been made before the beginning of the session. The collection of minerals recently purchased from F. W. Ferrier is also displayed in this museum.

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 palæolithic implements from the English and French Drift, and the beginnings 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 add to the ethnological collection, and it is hoped that they will do what they can to aid in its completion.

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 numerous attended by the public as well as by the students of the University. For the list of subjects and lectures during 1893-94, see Appendix.

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 \$120 to \$230. In addition to the above, various undergraduate scholarships are offered for competition in Classics, Modern Languages, German, Mathematics, Physics, Philosophy, Natural Sciences, Chemistry and Mineralogy, Political Science and Law. These scholarships range in value from \$45 to \$120, and are tenable for one year. A scholarship of \$60 in Political Economy, and one of £150 sterling in some department of Physical Science, are offered for post-graduate competition, the former annually, and the latter every second year. Prizes in books are offered in Classics, English, French, Chemistry, Biology, and Mineralogy and Geology. Medals are also awarded in Classics, Modern Languages, Oriental Languages, and Natural Sciences. For details, see pp. 98-104.

Fellowships.

For the encouragement of special post-graduate study, fellowships are offered in Latin, French, German, Italian and Spanish, Mathematics, Physics, Chemistry, Biology, Mineralogy and Geology, 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 re-appointment for a period not exceeding three years in all. They are required to assist in the teaching, and to devote their entire time during the session to the work of the department in which the appointment is held. For details, see p. 104.

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, and the Natural Science Association. Clubs have also been organized for the cultivation of musical talent. A paper devoted to literature and college news is published weekly, its editorial staff consisting of representatives from all sections of the undergraduate body.

Gymnasium and Athletic Grounds.

The University Gymnasium was completed and equipped in 1893. It is thoroughly provided with the best and most modern appliances for physical culture, and includes a running-track, bowling-alleys, shower-baths and swimming-baths, 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. Additions to the gymnasium building are at present in process of erection, consisting of a large hall for the public meetings of students, a reading-room, committee-rooms, and offices. In addition to the lawn in front of the main University Building, which is already available, a large plot of ground in the rear is now being put into order for athletic purposes. By this addition the facilities for football, cricket, tennis and other out-door athletic sports will be doubled, as compared with present accommodation; and by these grounds, in conjunction

with the Gymnasium, an ample opportunity will be 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. Rights and privileges as to the use of the grounds for athletic purposes are assigned twice a year. Applications from clubs for the use of the grounds during the session (1st October to 31st May) must be made to the President before 15th September, and for the summer vacation (1st June to 30th September) before 15th May, all such applications to be accompanied by a list of officers, and by particulars as to the organization and objects of the club making application.

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 entrusted, 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 reasonable 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.

AO The University of Toronto.

9 REGULATIONS
AND
CURRICULUM IN ARTS.

Degree of Bachelor of Arts.

There are two ordinary modes of proceeding to the Degree of B.A., viz.: (1) by taking a Pass course; or, (2) by taking an Honor course.

Entrance.

Candidates may enter this Faculty by passing the Junior Matriculation examination or the Senior Matriculation examination (First year).

Candidates for Junior Matriculation must have completed the fifteenth year of their age.

All candidates entering at the Junior Matriculation examination must take the pass subjects in Latin, Mathematics, English, History and Geography, and in one of the following groups: (a) Greek; (b) French and German; (c) French, and either Physics or Chemistry; (d) German, and either Physics or Chemistry.

Candidates intending to take, during their University course, any one of the following honor departments, viz.: Political Science, Mathematics and Physics, Chemistry and Mineralogy, Natural Sciences, are recommended to take French and German at Matriculation, since these languages must be taken in connection with the above-named honor departments. For a similar reason candidates intending to take, during their University course, either the honor department of Philosophy or that of Oriental Languages are recommended to take Greek, French and German at Junior Matriculation.

All candidates entering at the Senior Matriculation examination must take the pass subjects in Latin, English, History, Mathematics, either Greek or French and German,* and either Biology or Physics, specified in the curriculum under the title of First year. Candidates who purpose taking the honor

* Hebrew may be substituted for French or German.

course in Philosophy are recommended to take French and German as well as Greek, in view of the course for Second year prescribed on page 42; and candidates who intend taking the honor course in Political Science are recommended to take French and German, either instead of or along with Greek, in view of the course for Second year prescribed on page 42. Candidates for Senior Matriculation may present themselves either in May—and compete with the undergraduates for honors and scholarships—or at special examinations in June and September, at which no honors or scholarships are awarded.

An undergraduate in the Faculty of Arts, in any University in Her Majesty's dominions, may enter by being admitted *ad eundem statum*, on special application to the Senate.

If such application be for admission to the standing of the Third or Fourth year in this University the Senate will, if it sees fit to grant the same, prescribe the subjects of examination in which such applicant shall be required to pass before proceeding to the Degree, having regard to the subjects in which he has already passed satisfactory examinations in his own University.

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.

The ordinary annual examinations for Junior Matriculation (both pass and honor) will commence in the beginning of July, and applications therefor must be sent to the Education Department not later than May 24th, except in the case of candidates for Scholarships, whose application and fee must be sent to the Registrar.

Supplemental examinations for Junior and Senior Matriculation will be held in 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.

Candidates for entrance must produce satisfactory certificates of age and of good conduct.

The fee for the ordinary Junior Matriculation examination is five dollars, and for the Supplemental Matriculation ten dollars. The fee must be paid in each case when the application for the examination is made.

The fee for admission *ad eundem statum* is six dollars, and must be paid to the Registrar at the time of application.

Until the Senate by resolution otherwise determines, the standing of candidates who have passed, or who may hereafter pass, the examination of the Department of Education for First or Second Class Teachers' Certificates, is accepted *pro tanto* at any Junior Matriculation examination.

First Class Teachers' Certificates, or Senior Leaving Certificates, or certificates of having passed portions of the examination for such certificates, may be accepted *pro tanto* at the Senior Matriculation and First year examinations.

Teachers holding Grades A and B are allowed the options granted to honor men in the subjects in which these certificates have been granted ; thus those having these grades in Mathematics will be recognized as in the honor department of Mathematics ; those having Grade A in Natural Science will be recognized as in the honor department of Natural Sciences of the Second year, on passing the necessary additional subjects in the First and Second examinations ; and those having these grades in English will be recognized as in the honor department of Modern Languages on passing in pass and honor French and German in addition to other necessary subjects.

The Examinations in Mathematics and Chemistry are not required of those who hold certificates of having passed the First examination in the School of Practical Science.

Candidates who desire to compete at the First year examinations for scholarships or relative standing cannot exercise the privilege referred to in the preceding two paragraphs.

Regulations Relating to all Undergraduates.

Undergraduates proceeding to a Degree are required to be registered either in University College or in a federating University—except in those cases in which the Senate, in consideration of peculiar circumstances, shall dispense with attendance. All applications for such dispensation must be lodged with the Registrar before January 15th.

Every undergraduate not registered in University College, and who has not received such dispensation from the Senate for any particular year, must, before being admitted to examination, produce to the Registrar, from the Head of the federated University which he has attended during the year, a certificate of attendance and of compliance with the requirements of that University.

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

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, and such application must be accompanied by the fee of ten dollars.

Regulations Relating to the Pass Course.

The subjects to be taken by those pursuing the pass course, with the options permitted, are set forth in the following schedule :

- FIRST YEAR { Latin ; English ; History ; Mathematics ; either Greek, or French and German* ; Biology or Physics.
- SECOND YEAR ... { Latin ; English ; History ; Philosophy ; Chemistry or Geology† ; either Greek, or French and German.*
- THIRD YEAR { Latin ; English ; either Greek, or French and German* ; any two of the three departments—History and Political Science, Philosophy, Physics.
- FOURTH YEAR .. { Latin ; English ; either Greek, or French and German* ; any two of the three departments—Political Science, Philosophy, Astronomy.

Undergraduates in the pass 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, and Church History, according to the following scheme :

THIRD YEAR.

- BIBLICAL GREEK { May be substituted for the prescribed classical Greek.
- BIBLICAL LITERATURE OR CHURCH HISTORY. ... { May be substituted for the Modern History of the Political Science subject.
- APOLOGETICS { An undergraduate who takes Philosophy may substitute Apologetics for Ethics.

FOURTH YEAR.

- BIBLICAL GREEK { May be substituted for the prescribed classical Greek.
- BIBLICAL LITERATURE OR CHURCH HISTORY OR APOLOGETICS { May be substituted for Political Science or Philosophy.

Undergraduates who exercise these options must present certificates of having attended lectures and passed examinations in the subjects so selected at an affiliated or federating College or University other than University College. The minimum for passing at such examinations must not be less than the minimum required at the University examinations of the same year.

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, at the time of the Senior Matriculation exam-

*Hebrew may be substituted for French or German in each of the four years.

†Pass candidates who take Biology in the First year must take Geology in the Second year, and those who take Physics in the First year must take Chemistry in the Second year.

ination; 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.

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 of examinations.

An Honor candidate in Arts may be starred in one, but not more than one, of his Pass subjects on like conditions.

Candidates who have failed in one or two subjects, and who in consequence have been starred in those subjects, may present themselves for examination therein either in May or September, but on their presenting themselves, they shall be entitled to examination in those subjects only in which they have been starred.

A student who has been pursuing the pass course, but who has also succeeded in taking honors in some department in any year of his course, may apply to the Senate to be permitted to take such honor course, as if he had originally entered thereon; and such application may be granted, the Senate having due regard to the subjects on which he has already been examined.

Candidates in pass subjects in the Faculty of Arts shall be arranged in the annual class lists in three grades, A, B, and C; the minimum for Grade A shall be 75 per cent. of the marks, and for Grade B, 50 per cent.; all who pass with less than 50 per cent. shall be placed in Grade C.

Term Work in the Pass Course.

Reports of attendance at pass lectures in the First and Second years shall be made in all departments except those of Chemistry, Natural Science, and Physics, 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	“

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

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.

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

The Senate may for good reason excuse non-registered students from attending lectures, and shall in such case dispense with the requirements hereinbefore stated in regard to term work save in the case of English.

The Senate may upon the report of the University or College Council, 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; but no exemption from term work shall be allowed in the case of English.

Regulations Relating to the Honor Course.

In this course there are eight honor departments, viz.: I. Classics; II. Modern Languages; III. Oriental Languages; IV. Political Science; V. Philosophy; VI. Mathematics and Physics; VII. Chemistry and Mineralogy; VIII. Natural Sciences.

Candidates pursuing department II. are allowed to take either Teutonic or Romance languages in their Fourth year.

Candidates pursuing department VI. are allowed to take either Mathematics or Physics in their Fourth year.

Candidates pursuing department VIII. are allowed to take either Division I. or Division II. in their Fourth year.

An undergraduate is entitled to admission to the degree of Bachelor of Arts, if in each year of his course he passes the examination in the pass and honor subjects of one of these departments (except in the department of Political Science of which the honor subjects only are required), and also the Pass examinations in the subjects, and at the respective times mentioned in the following schedule:—

HONOR DEPARTMENT.	ADDITIONAL PASS EXAMINATIONS.	YEAR OF COURSE IN WHICH TO BE TAKEN.	
I. Classics.....	Pass English of the First Year.....	1st Year.	
	Pass Mathematics of the First Year.....	1st Year.	
	Pass History of the First and Second Years.....	1st and 2nd Years.	
	Pass French or German or Hebrew of the First and Second Years.....	1st and 2nd Years.	
	Pass Philosophy of the Second Year.....	2nd Year.	
II. Modern Languages....	Pass Mathematics of the First Year.....	1st Year.	
	Pass Biology, or Physics of the First Year.....	1st Year.	
	Pass Latin of the First and Second Years.....	1st and 2nd Years.	
	Pass Philosophy of the Second Year.....	2nd Year.	
	Pass History of the Second and Third Years.....	2nd and 3rd Years.	
III. Oriental Languages....	Pass Latin and Greek of the First Year.....	1st Year.	
	Pass English of the First Year.....	1st Year.	
	Pass History of the First Year.....	1st Year.	
	Pass Hebrew of the First Year.....	1st Year.	
	Pass Mathematics of the First Year.....	1st Year.	
	Pass French or German of the Second Year (German recommended).....	2nd Year.	
	Pass Latin or Greek of the Second Year.....	2nd Year.	
	Pass Philosophy of the Second Year.....	2nd Year.	
	Pass English or History of the Second and Third Years.....	2nd and 3rd Years.	
	Pass Ethics of the Third Year.....	3rd Year.	
	Pass Latin, or Greek, or French, or German of the Third and Fourth Years.....	3rd and 4th Years.	
	IV. Political Science.	Pass Mathematics of the First Year.....	1st Year.
		Pass History of the First Year.....	1st Year.
Pass Greek, or French and German (French and German recommended).....		1st Year.	
Biology, or Physics, of the First Year (Biology recommended).....		1st Year.	
Pass Latin of the First and Second Years.....		1st and 2nd Years.	
Pass English of the First and Second Years.....		1st and 2nd Years.	
Pass French, or Pass Greek of the Second Year.....		2nd Year.	
Pass German of the Second Year.....		2nd Year.	
Pass Psychology of the Second Year.....		2nd Year.	
Pass French, or German of the Third Year.....		3rd Year.	
V. Philosophy.....	Pass Latin, English, History, and Mathematics of the First Year.....	1st Year.	
	Pass Biology, or Physics of the First Year. (Biology recommended).....	1st Year.	
	Pass Greek, or French and German of the First Year.....	1st Year.	
	Pass Optics of the Second Year.....	2nd Year.	
	Pass Greek of the Second Year.....	2nd Year.	
	Pass Hebrew of the First Year.....	1st Year.	
	or		
	† Pass German of the Second Year.....	2nd Year.	
	Pass Hebrew of the Second Year.....	2nd Year.	
	or		
	† Pass German of the Third Year.....	3rd Year.	
	Pass English, or History of the Third Year.....	3rd Year.	
	Pass Greek (Plato only) of the Fourth Year.....	3rd Year.	
Pass Economics of the Fourth Year.....	4th Year.		

* In view of the course for Second Year, it is recommended that candidates in this department take Greek and German the First Year; Hebrew, however, may be substituted for French.

† Students at St. Michael's College are allowed to substitute Latin of the Second and Third Years for German. Students availing themselves of the Hebrew option are required to take Hebrew in the Third Year, and may read the Kant of the Fourth Year in translation.

HONOR DEPARTMENT.	ADDITIONAL PASS EXAMINATIONS.	YEAR OF COURSE IN WHICH TO BE TAKEN.
VI. Mathematics and Physics	Pass English of the First Year	1st Year.
	Pass Latin, or Greek of the First Year	1st Year.
	Pass French and German of the First and Second Years	1st and 2nd Years.
	Chemistry, Theoretical and Practical, of the Second Year. (Only Pass standing required)	2nd Year.
VII. Chemistry and Mineralogy....	Pass English of the First Year	1st Year.
	Pass Mathematics of the First Year, with Permutations, Combinations and Binomial Theorem.	1st Year.
	Pass Latin, or Greek of the First Year	1st Year.
	Pass French and German of the First and Second Years	1st and 2nd Years.
VIII. Natural Sciences	Pass English of the First Year	1st Year.
	Pass Mathematics of the First Year	1st Year.
	Pass Latin, or Greek of the First Year	1st Year.
	Pass French and German of the First and Second Years	1st and 2nd Years.
	Pass Psychology of the Second Year.....	2nd Year.

Undergraduates in the honor departments of Philosophy and Oriental Languages may, in the Third year, substitute Biblical Literature or Church History for History. Undergraduates in the honor department of Philosophy may also substitute Biblical Greek for the pass Classical Greek (Plato) to be taken in the Third year, and Biblical Literature or Apologetics for the pass Economics of the Fourth year. Undergraduates in the honor department of Oriental Languages may also substitute Biblical Greek for the pass Classical Greek of the Third and Fourth years. Undergraduates in the honor department of Political Science may substitute Church History for the pass English of the Second year, and Biblical Greek for the pass French or German of the Third year. Those exercising these options must present certificates of having attended lectures and passed examinations in the subjects so selected at an affiliated or confederated College or University other than University College. The minimum for passing at such examinations must not be less than the minimum required at the University examinations of Third year. These examinations do not count for honors.

In the honor department of Philosophy two distinct examinations are held upon the two systems of Philosophy taught in the confederating Arts Colleges.

A candidate for honors in any of these departments is required each year to take the pass papers set in the subjects of his department for that year, except in the department of Political Science, in which only the honor papers are required.

Candidates in the honor subjects of Physics, Chemistry, Biology, and Mineralogy and Geology, 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.

In the Departments of Mathematics and Physics, Chemistry and Mineralogy, and Natural Sciences, each candidate for honors must attend all examinations in the practical work of the year in which he presents himself for the University Examination.

A candidate pursuing the honor course in any one of these departments may, after passing in honors the examination of any year, apply for leave to take the pass course during the remainder of his undergraduateship.

A candidate pursuing the honor course, who fails to take honors in his department, shall not be considered to have passed the examination of the year, excepting that in the departments of Modern Languages, Political Science, Philosophy, Chemistry and Mineralogy, and Natural Sciences, a candidate who in any one branch has failed to obtain the full percentage requisite for ranking in honors may, on the special recommendation of the examiners, be allowed to proceed as an honor candidate in the department in the following year. A candidate who has failed may at his option again present himself as an honor candidate at any subsequent annual examination; or, upon application to the Senate, may be permitted to take the ordinary Supplemental Pass examination in September, with such of the previous pass subjects as may appear requisite in view of the extent and character of the examinations he has already passed.

A candidate who competes for honors at the examination for B. A., 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.

An undergraduate who has obtained honors in any one of these departments may transfer himself to any other department, and proceed therein, but as a prerequisite to obtaining the Degree of B. A., he must during his course have passed the examinations in pass subjects annexed to the honor department to which he is transferred.

Regulations Relating to Students, Terms, and Examinations.

Students.

1. The regular students include undergraduates of the University, and matriculants, *i. e.*, students who, though they have not passed the prescribed matriculation examinations, are taking the full undergraduate course.
2. Matriculated students are required to attend the lectures and examinations on all subjects necessary for students of their respective standings. Certificates of attendance, during one or more academic years, will be given to those matriculated students who have been regular in their attendance on the required lectures, and who have passed the prescribed examinations.

3. 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.

4. All interference with the personal liberty of any student, 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.

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

6. 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.

Terms.

1. The Academic Year consists of two terms; the first (*Michaelmas*) extending from October 1st to December 23rd; and the second (*Easter*) from January 2nd to May 31st.

2. The term will not be allowed to students who have been reported to the President by any of the Professors as neglecting to attend the required lectures, or have not conformed to the statutes and regulations of the College, or have been reported to the Council for bad conduct.

Examinations.

1. Matriculated students are required to attend all examinations prescribed by the Professors and Lecturers in their special departments.

2. Prizes and honors are awarded on the recommendation of the Professors and Lecturers, in accordance with the requirements prescribed by them in their several departments.

3. Occasional students are not required to attend the examinations, unless they are candidates for prizes or honors, or desire to obtain certificates of attendance.

Degree of Master of Arts.

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 May 1st.

Admission "Ad Eundem Gradum."

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.

FEES.

I. UNIVERSITY FEES.

General.

The following fees are payable :—

For Junior Matriculation.....	Five Dollars.
For Senior Matriculation.....	Ten “
For each Supplemental examination.....	“ “
For each examination after Matriculation.....	“ “
For change of Faculty.....	Five “
For admission <i>ad eundem statum</i>	Six “
For the Degree of B.A.	Ten “
For the Degree of M.A.	Twenty “
For admission <i>ad eundem gradum</i> (B.A. or M.A.).....	“ “
For admission to a higher year on the certificate of the Head of an affiliated College.....	Five “
For dispensation from attendance at lectures in an affiliated College.....	Two “
For certificates of Honor, each.....	One “

Matriculated undergraduates who are registered students of University College, or of any federating 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 federating 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.
	\$	\$	\$	\$	\$	\$
FIRST YEAR AND DEPARTMENT.						
Natural Sciences		2 00	2 00	1 00		3 00
SECOND YEAR AND DEPARTMENT.						
Chemistry and Mineralogy	3 00	1 00		1 00		5 00
Natural Sciences	2 00	1 00	5 00	1 00		9 00
Mathematics	2 00					2 00
THIRD YEAR AND DEPARTMENT.						
Chemistry and Mineralogy	10 00	2 00		2 00		14 00
Natural Sciences	2 00	2 00	10 00			14 00
Physics				8 00		8 00
Psychology					2 00	2 00
FOURTH YEAR AND DEPARTMENT.						
Chemistry and Mineralogy	10 00	4 00				14 00
Biology			20 00			20 00
Geology and Mineralogy		4 00				4 00
Physics				10 00		10 00
Psychology					3 00	3 00

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 Professor or the Senate.

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; 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 sub-division, 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 Federating 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 student in Arts shall, during his undergraduate course, 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 accompany the application to the Registrar.

The fee for admission *ad eundem statum*, for change of faculty, for admission to a higher year on the certificate of the Head of an affiliated college, for dispensation from attendance at lectures, or for certificates of honor, must be paid to the Registrar 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	\$30 00
SECOND YEAR.....	Any course or department	30 00
THIRD YEAR	Chemistry and Mineralogy.....	25 00
	Natural Sciences	25 00
	Any other course or department	30 00
FOURTH YEAR.....	Chemistry and Mineralogy or Physics.....	25 00
	Biology	20 00
	Any other course or department	30 00

The annual enrolment fee of a matriculated student in Arts taking, under the regulations, more than one honor course, shall be \$30 only.

The enrolment fee of a matriculated student in Arts attending lectures for one term, or part of a term, shall be \$15.

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 \$30.

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

N.B.—All the above fees are payable in advance to the Registrar, 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.

CURRICULUM IN ARTS.

JUNIOR MATRICULATION.

Latin.

Translation from English into Latin prose, involving a knowledge of Bradley's Arnold, Exercises 1-24 inclusive, and 49-65 inclusive. For practice in writing continuous Latin prose, candidates are advised to study Simpson's Latin Prose (Part I.).

Translation at sight, with the aid of vocabularies, of easy passages from Latin authors.

A paper on grammar.

*Translation at sight from Latin authors not specified.

*Translation from English into Latin prose.

*A paper on grammar.

1895: VIRGIL, *Æneid*, II; CÆSAR, *Bellum Gallicum*, V, VI; *HORACE, *Odes*, III, IV; *LIVY, *Book XXI*.

Greek.

Translation from English into Greek prose, involving a knowledge of the first fifteen exercises in Abbott's Arnold's Greek Prose Composition.

Translation at sight, with the aid of vocabularies, of easy passages from Greek authors:

A paper on grammar.

*Translation at sight from Greek authors not specified.

*Translation from English into Greek prose, involving a knowledge of Abbott's Arnold's Greek Prose Composition, or Fletcher & Nicholson's Greek Prose Composition.

*A paper on grammar.

1895: XENOPHON, *Anabasis*, V; HOMER, *Iliad*, VI; *HOMER, *Odyssey*, XI, *PLATO, *Apology and Crito*.

* Only for Candidates for Honors.

English.

1. Composition :—Nothing but an essay will be required ; this will be dealt with rather as a test of the candidate's power of English composition than as a proof of his knowledge of the subject written upon. Legible writing and correct spelling and punctuation will be regarded as indispensable, and special attention will be paid to the structure of sentences and paragraphs. The examiner will allow a choice of subjects, some of which must be based on the following selections, with which the candidate is expected to familiarize himself by careful reading :—

1895 : SCOTT, Kenilworth ; GOLDWIN SMITH, Cowper (English Men of Letters Series).

*An Essay. A liberal choice of subjects will be allowed.

2. Grammar and Rhetoric :—The examination will be chiefly on passages not prescribed. A liberal choice of questions will be allowed to the candidate.

*Grammar, Philology, Rhetoric, and Prosody :—The examination will be chiefly on texts not prescribed.

3. Poetical Literature :—Intelligent comprehension of and familiarity with the prescribed texts will be required.

1895 : TENNYSON, Recollections of the Arabian Nights, The Poet, The Lady of Shalott, The Lotus-Eaters, Morte d'Arthur, The Day-Dream, The Brook, The Voyage, The Holy Grail.

*Poetical Literature :—Intelligent comprehension of and familiarity with the prescribed texts will be required.

1895 : SHAKESPEARE, Richard II ; CHAUCER, Prologue to the Canterbury Tales.

French.

Grammar.

Composition :—(a) Translation into French of short English sentences as a test of the candidate's knowledge of grammatical forms and structure, and the formation in French of sentences of similar character ; and (b) translation of easy passages from English into French.

Translation of unspecified passages from easy French authors.

*Grammar.

*Translation from English into French.

*Writing easy French from dictation.

*Translation of unspecified passages from modern French prose.

An examination on the following texts :—

1895 : SARDOU, La Perle Noire (the romance) ; DE MAISTRE, Voyage autour de ma Chambre ; *SOUVÈSTRE, Un Philosophe sous les Toits ; *Le Voyage de Monsieur Perrichon.

* Only for Candidates for Honors.

German.

Grammar.

Composition:—(a) Translation into German of short English sentences as a test of the candidate's knowledge of grammatical forms and structure, and the formation in German of sentences of similar character; and (b) translation of easy passages from English into German.

Translation of unspecified passages from easy German authors.

*Grammar.

*Translation from English into German.

*Writing easy German from dictation.

*Translation of unspecified passages from modern German prose.

An examination on the following texts:

1895: RIEHL, *Culturgeschichtliche Novellen*, viz., *Der stumme Ratsherr*, *Der Dach auf Lichtmess*, *Der Leibmedicus*; SCHILLER, *Der Taucher*; *FREYTAG, *Die Journalisten*; *SCHILLER, *Belagerung von Antwerpen*.

History and Geography.

Great Britain and her colonies from the revolution of 1688 to the peace of 1815, and the geography relating thereto.

Outlines of Roman history to the death of Augustus, and the geography relating thereto.

Outlines of Greek history to the battle of Chaeronea, and the geography relating thereto.

*English history from the discovery of America to the revolution of 1688. Geography to illustrate the history read.

Mathematics.

Arithmetic.

Algebra. (Elementary rules; easy factoring; highest common measure; lowest common multiple; square root; fractions; ratio; simple equations of one, two and three unknown quantities; indices; surds; easy quadratic equations of one and two unknown quantities.)

Euclid, Bb. I, II, III.

*Plane Trigonometry; Trigonometrical ratios with their relations to each other; sines, etc., of the sum and difference of angles with deduced formulæ; solution of triangles; expression for the area of triangles, radii of circumscribed, inscribed, and escribed circles.

*Algebra: More thorough knowledge of the pass subjects, together with variation, progressions, permutations and combinations, binomial theorem, interest forms with annuities.

*Euclid, Bb. IV, VI, and Definitions of B. V.

* Only for Candidates for Honors.

Elementary Science.**Physics.**

An experimental course in (a) Dynamics, (b) Heat, (c) Electricity, including an acquaintance with the Metric System of Units. The courses are defined as follows :—

Dynamics : Definitions of velocity, acceleration, mass, momentum, force, moment, couple, energy, work, centre of inertia ; statement of Newton's laws of motion ; composition and resolution of forces ; conditions for equilibrium of forces in one plane.

Definitions of a fluid, fluid pressure at a point, transmission of fluid pressure, resultant fluid pressure, specific gravity, Boyle's law, the barometer, air pump, water pump, siphon.

Heat : Effects of heat, temperature, diffusion of heat, specific heat, latent heat, law of Charles.

Electricity : Voltaic cells, chemical action in the cell, magnetic effect of the current, galvanometer, voltmeter, Ohm's law, heating effect of the current, electric light, current induction, dynamo and motor, electric bell, telegraph, telephone.

Chemistry.

Definition of the object of the science, relations of the physical sciences to Biology, and of Chemistry to Physics, chemical change, elementary composition of matter. Laws of combination of the elements, atomic theory, molecules, Avogadro's Law. The determination of atomic weight, specific heat, atomic heat, nomenclature classification. The preparation, characteristic properties, and principal compounds of the following elements : hydrogen, chlorine, bromine, iodine, oxygen, sulphur, nitrogen, phosphorus, carbon, silicon.

*Elementary Inorganic Chemistry ; The practical study of the following elements with their most characteristic compounds, in illustration of the outlines 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, gold, platinum.

*** Biology.****1. 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 horse-tail, a liver-wort, a moss, a lichen, a mushroom, and a chara.

* Only for Candidates for Honors.

A knowledge of structure is required, such as can be obtained with the use of the compound microscope. Attention will be given in the examination to drawing and description of parts of plants supplied, and to the classification of these. 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.

2. ELEMENTS OF ZOOLOGY :—

Practical study of the subject as defined in *The High School Zoology*, but limited by the author's syllabus of work.

Pass Standard.

The percentage required for pass standing shall be 25 per cent. on each paper, and 40 per cent. on the whole examination.

UNDERGRADUATE COURSES. (5)

DEPARTMENT OF CLASSICS. (6)

Latin.

First Year.

1895: HORACE, Odes, III, IV; LIVY, XXII; *VIRGIL, Georgics, I-II;
*CICERO, Pro Cluentio (Fausset).

Translation from English into Latin prose.

Latin grammar and *Philology.

Translation with aid of dictionaries of easy passages from Latin authors
not specified.

*Translation from Latin authors not specified.

Second Year.

1895: CICERO, In Verrem, Actio II, Bk. IV; LIVY, V; *TACITUS, His-
tories, I; *HORACE, Odes, Epistles, and Ars Poetica.

Translation from English into Latin prose.

Latin Grammar and *Philology.

Translation with aid of dictionaries of easy passages from Latin authors not
specified.

*Translation from Latin authors not specified.

*Roman History, to the end of the war with Pyrrhus—MOMMSEN, Bks. I, II,
Vol. I.

Third Year.

1895: CICERO, De Oratore, I; TERENCE, Andria; *LIVY, XXI-XXIV;
*CICERO, De Finibus, I, II; *TACITUS, I, II; *PLAUTUS, Captivi and Trinum-
mus; *JUVENAL, Satires, VIII, X-XIII.

Translation from English into Latin prose.

Latin Grammar and *Philology.

Translation with aid of dictionaries of easy passages from Latin authors
not specified.

*Translation from Latin authors not specified.

*Roman History, First Punic War to the Macedonian War (B.C. 264-168)
—MOMMSEN, Vol. II.

* Only for Candidates for Honors.

Fourth Year.

1895: TACITUS, *Dialogus de Oratoribus*; PLINY, *Letters*, Bk. X, Pliny to Trajan and Trajan to Pliny (Hardy's edition); *SALLUST, *Catiline*; *TACITUS, *Annals*, Bb. I-VI; *CICERO, *De Oratore*, I, II (Wilkins); *Cicero, *Academica* (Reid); *CICERO, *Select Letters*, Parts I, IV, V (Watson); *VIRGIL, *Æneid*, Bb. II, IV, VI, and *Georgics*; *CATULLUS (Simpsons's Selections); *PROPERTIUS (Postgate's Selections); *MARTIAL (Stephenson's Selections); *QUINTILLIAN, Bk. X (Mayor).

Translation from English into Latin prose.

Latin Grammar and *Philology.

Translation with aid of dictionaries of easy passages from Latin authors not specified.

*Translation from Latin authors not specified.

*Roman History: Questions based on the authors read.

*Post-Aristotelian Philosophy: Questions based on the authors read.

NOTE.—Honor candidates of the Fourth year are not required to take the pass papers of this year.

① Greek.

③ First Year. ②

1895: HOMER, *Odyssey*, XI, XII; DEMOSTHENES, *Pro Phormione* and *Contra Cononem* (Paley & Sandys' *Select Private Orations*, Pt. II). *HOMER, *Odyssey*, XVII, XVIII; *THUCYDIDES, III.

Translation from English into Greek prose, involving a knowledge of Fletcher and Nicholson's *Greek Prose Exercises*, or Abbott's *Arnold's Greek Prose Composition*.

Greek Grammar and *Philology.

Translation with the aid of dictionaries of easy passages from Greek authors not specified.

*Translation from Greek authors not specified.

*Translation from English into Greek prose.

Second Year.

1895: SOPHOCLES, *Oedipus Rex*; DEMOSTHENES, *Contra Aristocratem*; *THUCYDIDES, IV; ARISTOPHANES, *Birds*; EURIPIDES, *Ion*.

Translation from English into Greek prose, involving a knowledge of Fletcher and Nicholson's *Greek Prose Exercises*, or Abbott's and Arnold's *Greek Prose Composition*.

Greek Grammar and *Philology.

Translation with aid of dictionaries of easy passages from Greek authors not specified.

*Translation from Greek authors not specified.

* Only for Candidates for Honors.

*Translate from English into Greek prose.

*Greek History to the end of the Peloponnesian War : Cox, General History of Greece. (Students' Series.) Cox, Greeks and Persians. (Epoch Series.) Cox, Athenian Empire. (Epoch Series.)

*Roman History to the end of the war with Pyrrhus, Mommsen : Vol. I (Bks. I and II).

Third Year.

1895: XENOPHON, (Economicus and Hiero; ARISTOPHANES, Peace; *PLATO, Republic I-IV; *ARISTOTLE, Nicomachean Ethics, I-IV; *ARISTOPHANES, Acharnians; *SOPHOCLES, Ajax; *THUCYDIDES, VII.

Translation from English into Greek Prose, involving a knowledge of Fletcher and Nicholson's Greek Prose Exercises, or Abbott's Arnold's Greek Prose Composition.

Greek Grammar and *Philology.

Translation with aid of dictionaries of easy passages from Greek authors not specified.

*Translation from Greek authors not specified.

*Translation from English into Greek Prose.

*Greek History : The supremacy of Sparta and Thebes, with a study of the original sources; SANKKEY, Spartan and Theban Supremacies. (Epoch Series).

*Roman History : First Punic war to Macedonian war (B.C. 264-168). Mommsen, Vol. II.

Fourth Year.

1895: PLATO, Phaedrus; ÆSCHYLUS, Agamemnon; *HERODOTUS, Bb. VII-IX; *THUCYDIDES, Bb. I-III, VI-VIII; *ÆSCHINES, against Ctesiphon; *DEMOSTHENES, on the Crown; *ARISTOTLE, Ethics, Bb. I-IV, X (from chap. 6 to end inclusive); *ARISTOTLE, Politics, I-III; *ARISTOTLE, Rhetoric, Bk. II (chapters 1-17 inclusive); *PLATO, Apology; *PLATO, Republic, Bb. I-IV, VII-X; *HOMER, Iliad, Bb. VI, IX, XXII; *HOMER, Odyssey, Bb. IX, XVII, XXI; *ÆSCHYLUS, Prometheus, and Agamemnon; *SOPHOCLES, Ajax, Antigone, and (Edipus Rex; *EURIPIDES, Ion; *ARISTOPHANES, Frogs; *THEOCRITUS, Idylls, XIII, XV, XXI, XXIV.

Translation from English into Greek prose, involving a knowledge of Fletcher and Nicholson's Greek Prose Exercises, or Abbott's Arnold's Greek Prose Composition.

Greek Grammar and *Philology.

Translation with aid of dictionaries of easy passages from Greek authors not specified.

*Translation from Greek authors not specified.

*Translation from English into Greek Prose.

*Greek History and Philosophy : Questions based on the Greek authors read.

NOTE.—Honor candidates of the Fourth year are not required to take the pass papers of the year.

* Only for Candidates for Honors.

DEPARTMENT OF MODERN LANGUAGES.

English.**First Year.**

I. Critical reading of the following works of Shakespeare :—
1895 : Richard II, Merchant of Venice, King Lear.

II. Reading of the following essays, in connection with the investigation of the principles of Rhetoric :—

1895 : WASHINGTON IRVING, The Mutability of Literature ; LAMB, Imperfect Sympathies ; DEQUINCEY, Conversation ; EMERSON, Compensation ; ARNOLD, Sweetness and Light ; JOHN MORLEY, Popular Culture.

III. An essay will be required on one of a number of assigned subjects, some of which will be based on the works prescribed in Literature.

*EARLY WEST-SAXON, Bright's Reader, Sections V, VII and VIII.

*SPENSER, Faerie Queene—

1895 : Book II, Cantos V-VIII, inclusive.

Second Year.

1895 : SCOTT, Lay of the Last Minstrel, Lady of the Lake, Kenilworth.

*LATE WEST-SAXON, Bright's Reader, Sections IV, VI, XIV-XVI.

*CHAUCER : Prologue, Knight's Tale, Nun's Priest's Tale.

Third Year.

The History of English Literature from Dryden to Wordsworth (1660-1793). An intimate acquaintance with the following works will be expected :—

1895 : DRYDEN, Absalom and Achitophel, Pt. I, Alexander's Feast, Epistle to John Dryden, Prose preface to the "Fables" ; ADDISON, The essays contained in sections I, III, IV, VI, VII, of the Clarendon Press selections ; POPE, Rape of the Lock, Prologue to the Satires ; SWIFT, Voyage to Lilliput ; THOMSON, Winter, Castle of Indolence, Canto I ; COLLINS, Odes to Evening, to Liberty, and on Popular Superstitions ; JOHNSON, London, Life of Pope, Preface to Shakespeare ; GOLDSMITH, Deserted Village, Vicar of Wakefield ; GRAY, Elegy, Progress of Poesy ; BURKE, American Taxation ; COWPER, The Task, Book VI.

*ANGLO-SAXON POETRY, Bright's Reader, sections XIX-XXIV.

*GOTHIC, Wright's Primer, selections from St. Mark.

*SHAKESPEARE, Tempest.

Fourth Year.

A general acquaintance with the work of specified writers of the 19th century, and an intimate knowledge of the following selected works, as well as of such of their poems as are included in Palgrave's Golden Treasury of Songs and Lyrics :—

* Only for Candidates for Honors.

1895: WORDSWORTH, Michael, Tintern Abbey, Resolution and Independence, The Old Cumberland Beggar, Influence of Natural Objects; COLERIDGE, The Ancient Mariner, The Lime Tree Bower, France, Dejection, Fears in Solitude, Biographia Literaria, chaps. 4, 14, 17, 18, 19, 20, 22; SCOTT, Lay of the Last Minstrel, Old Mortality; SHELLEY, Alastor, Adonais; KEATS, To a Grecian Urn, The Eve of St. Agnes; TENNYSON, In Memoriam, The Lady of Shalott, Dora; BROWNING, Epistle of Karshish, The Bishop Orders his Tomb, Caliban, The Lost Leader, Up at a Villa; CARLYLE, Lectures on Heroes, 3, 5, 6, Essay on Burns, Essay on Boswell's Life of Johnson; DE QUINCY, On Style, Coleridge, Wordsworth, The English Mail Coach; GEORGE ELIOT, Middlemarch.

*The history of Elizabethan and early Stuart literature (1558-1642).

*The following works are to be studied critically:—

SPENSER: Faerie Queene, Book I; SHAKESPEARE, Henry V, As You Like It, Hamlet, Coriolanus, Henry VIII; MILTON, Paradise Lost, Books I, II, Samson Agonistes.

*The following works are to be read carefully: †

SIDNEY'S Apology for Poetry; BACON'S Essays, and Advancement of Learning; HOOKER'S Ecclesiastical Polity, Bk. I; MARLOWE'S Tamburlaine (Pt. I), Faustus, and Edward II; GREENE'S Friar Bacon and Friar Bungay; JONSON'S Every Man in his Humour; the selections from WYATT to SHIRLEY, in Ward's English Poets; SPENSER'S Faerie Queene, Bks. I, II; MILTON'S Paradise Lost, I-IV, VII, Hymn on the Nativity, L'Allegro, Il Penseroso, Lycidas, Comus, Paradise Regained, and Samson Agonistes.

*ANGLO-SAXON, Beowulf.

*HISTORICAL ENGLISH GRAMMAR.

During the session an original essay or essays shall be submitted by each candidate for Honors to the instructors in English in University College (or in the case of a candidate from a federating University to the instructors in the federating University of which he is a student). On the basis of these essays the instructors shall assign marks, and, in April of each year, report the percentage of marks obtained by each candidate to the Registrar of the University of Toronto, and these marks shall be taken into consideration by the examiners in awarding Honor standing.

French.

First Year.

Grammar; writing easy French from dictation; translation from English into French; translation of unspecified passages from easy modern French prose.

* Only for Candidates for Honors.

† In the case of these works, only such knowledge will be demanded at the examination as, the candidate may reasonably be expected to attain from his own study of the simple text without the aid of annotated editions.

An examination on the following texts :

1895 : SOUVESTRE, *Un Philosophe sous les Toits*; LABICHE, *Le Voyage de Monsieur Perrichon*.

*Translation of unspecified passages from modern French authors ; translation from English into French.

*An examination on the following texts :

1895 : PONSARD, *Le Lion amoureux* ; SAND, *La Mare au Diable*.

Second Year.

Grammar ; writing French from dictation ; translation from English into French ; translation of unspecified passages from modern French authors.

An examination on the following texts :

1895 : ABOUT, *La Mère de la Marquise* ; PONSARD, *Charlotte Corday* ; SCRIBE, *Le Charlatanisme*.

*Composition in French ; translation of unspecified passages from modern French authors ; translation from English into French.

An examination on the following texts :

1895 : *MÉRIMÉE, *Colomba* ; SAINTE-BEUVE, *Chateaubriand et son groupe littéraire sous l'empire*, *Leçons*, I-IV.

Third Year.

Grammar ; writing French from dictation ; translation from English into French ; translation of unspecified passages from modern French authors ; history of French literature in the 17th century, with outlines of the preceding periods.

An examination on the following texts :

1895 : MOLIÈRE, *Les Précieuses ridicules* ; CORNEILLE, *Horace* ; RACINE, *Athalie* ; LA BRUYÈRE, *Caractères (De la Cour)* ; LA FONTAINE, *Fables*, Bks. I, II ; BOSSUET, *Oraisons funèbres (on Henriette de France)*.

*Composition and conversation in French ; translation from English into French ; translation of unspecified passages from authors subsequent to the 16th century ; old French grammar ; elements of French phonology.

*An examination on the following :

*CHANSON DE ROLAND (Clédat's edition), ll. 1-365.

*MOLIÈRE, his life and times, and the following works :

1895 : *Le Misanthrope*, *Le Tartuffe*, *Le Festin de Pierre*, *L'Avare*, *Le Bourgeois Gentilhomme*, *Les Femmes Savantes*.

Fourth Year.

Grammar ; composition ; writing French from dictation ; translation from English into French ; translation of unspecified passages from modern French authors ; history of French literature during the 18th and 19th centuries.

An examination on the following texts :

1895 : VOLTAIRE, *Zaïre* ; CHATEAUBRIAND, *Atala* ; GAUTIER, *Émaux et Camées* ; HUGO, *Hernani* ; BALZAC, *Eugénie Grandet*.

* Only for Candidates for Honors.

*Composition and conversation in French; translation from English into French; translation of unspecified passages from French authors of any period; history of the French language.

*An examination on:

*CHANSON DE ROLAND (Clédat's edition), lines 366-1347.

*SAINTSBURY, French Lyrics, to Marot inclusive.

*VICTOR HUGO, his life and times, and the following works:
1895: Les Chants du Crépuscule, Les Châtiments, Ruy Blas, Marie Tudor, Marion de Lorme, Notre Dame de Paris, Napoléon le Petit.

German.

First Year.

Grammar; writing easy German from dictation; translation from English into German; translation of unspecified passages from modern German prose. An examination on the following texts:—

1895: FREYTAG, Die Journalisten; SCHILLER, Belagerung von Antwerpen.

Candidates in the honor departments of Chemistry and Mineralogy, and Natural Sciences may substitute HODGES' Course in Scientific German, Part I, for SCHILLER'S Belagerung.

*Grammar; translation of unspecified passages from recent and not difficult German authors; translation from English into German.

An examination on the following texts:—

1895: *SCHILLER, Wilhelm Tell; *HEYSE, Hans Lange.

Second Year.

Grammar; writing German from dictation; translation from English into German; translation of unspecified passages from recent German authors; history of German literature: Goethe and Schiller.

An examination on the following texts: GOETHE, Minor poems (ed. Sonnenschein); SCHILLER, Geschichte des Abfalls der Niederlande, B. I.

Candidates in the Honor departments of Chemistry and Mineralogy, and Natural Sciences, may substitute HODGES' Course in Scientific German, Part II, for SCHILLER'S Geschichte des Abfalls der Niederlande, B. I.

*Composition in German; translation of unspecified passages from authors of the 18th and 19th centuries; translation from English into German; outlines of German literature, leading authors from Klopstock to Goethe, inclusive.

An examination on the following texts: *LESSING, Nathan der Weise; *HERMANN GRIMM, Novellen—Die Sängerin, Cajetan, Das Kind.

Third Year.

Grammar; writing German from dictation; translation from English into German; translation of unspecified passages from modern German authors; history of German literature in the 18th and 19th centuries.

* Only for Candidates for Honors.

An examination on the following texts : SCHILLER, *Die Braut von Messina* ; GOETHE, *Leiden des jungen Werthers* ; EICHENDORFF, *Aus dem Leben eines Taugenichts*.

*Composition and conversation in German ; translation from English into German ; translation of unspecified passages from any Modern High German author.

*Elements of Middle High German Grammar ; Selections in Middle High German : *Nibelungenlied* (ed. Bartsch) Avv. I, V, XVI, XXIX, XXXVII, XXXIX.

*History of German literature in the 18th century, with selections from German authors of that period.

*GOETHE, his life and times to the end of the 18th century. Candidates will be required to give evidence of having read Goethe's principal works during this period.

Fourth Year.

Grammar ; writing German from dictation ; translation from English into German ; translation of unspecified passages from modern German authors ; history of German literature prior to the 18th century.

An examination on the following texts :

SCHILLER, *Wallenstein's Tod* ; HEINE, *Prosa* (ed. Colbeck) ; WILDENBRUCH, *Neue Novellen*.

*Composition and conversation in German ; translation from English into German ; translation of unspecified passages from High German authors of any period.

*Comparative and historical grammar of the German language. Grammar and phonology of Old and Middle High German. Modern High German phonology, accidence, and syntax, considered in their growth and development from the Old High German period : BEHAGHEL, *Historical Grammar of the German Language* (trans. Trechmann) ; WRIGHT, *Old and Middle High German Primers*.

*Selections from Old and Middle High German authors : WRIGHT, *Old High German Primer* ; WALTHER VON DER VOGELWEIDE (ed. Paul).

*History of German Literature.

*Candidates will also be required to show a reasonable acquaintance with the life and works of GOETHE, and his influence on the literature of the 19th century.

*Italian.

First Year.

Elementary grammar ; translation into Italian of short English sentences involving an elementary knowledge of grammatical forms and structure, and the formation in Italian of sentences of similar character.

An examination on the following text :

DE AMICIS, *Cuore* (I Racconti mensili).

* Only for Candidates for Honors.

Second Year.

Grammar ; writing Italian from dictation ; translation at sight of easy passages from Italian authors ; translation of easy passages from English into Italian.

An examination on the following texts :

SALVATORE FARINA, *Il Signor Io* ; GOLDONI, *Il vero Amico*.

Third Year.

Grammar ; the elements of Italian phonology ; translation from English into Italian ; translation at sight from modern Italian authors ; writing Italian from dictation ; outlines of the history of Italian literature.

An examination on the following texts :

ALFIERI, *Saul* ; FOSCOLO, *Dei Sepolcri*, and Jacopo Ortis ; TASSO, *La Gerusalemme Liberata*, Cantos I, XII ; DANTE, *Inferno*, Cantos I-V.

Fourth Year.

Grammar ; writing Italian from dictation ; composition and conversation in Italian ; translation from English into Italian ; translation at sight from Italian authors of any period ; history of the Italian language ; history of Italian literature from its origin to the end of the 16th century.

An examination on the following texts :

MANZONI, *I promessi Sposi*, Chaps. I-XIX ; LEOPARDI, *Prose Scelte* (ed. Fornaciari) ; BOCCACCIO, *Novelle Scelte* (ed. Dazzi), I-XII ; PETRARCA, *Rime Scelte* (ed. Mazzatinti e Padovan) Parts II, IV ; DANTE, *Inferno*, Cantos VI-XVII, *Purgatorio*, Cantos I-IX ; TALLARIGO E IMBRIANI, *Crestomazia Italiana* (Vol. I, Selections).

***Spanish.**

Second Year.

Knapp's Spanish Grammar.

Third Year.

Grammar ; the elements of Spanish phonology ; translation from English into Spanish ; translation at sight from modern Spanish authors ; writing Spanish from dictation ; outlines of the history of Spanish literature.

An examination on the following texts :

KNAPP'S Spanish Reader, pp. 1-102 ; MORATIN, *La Comedia nueva ó el Café* ; HARTZENBUSCH, *Los Amantes de Teruel*.

Fourth Year.

Grammar ; writing Spanish from dictation ; translation from English into Spanish ; translation at sight from Spanish authors of any period ; history of the Spanish language ; history of Spanish literature from its origin to the end of the 17th century.

* Only for Candidates for Honors.

An examination on the following texts:
 GALDÓS, *Doña Perfecta*; MORATIN, *El Sí de las Niñas*; CERVANTES, *Don Quijote*, Part I, Chaps. 1-10, 38-41, 46-52; LOPE DE VEGA, *La Estrella de Sevilla*; CALDERON, *La Vida es Sueño*; KELLER'S *Altspanisches Lesebuch* (Selections).

 DEPARTMENT OF ORIENTAL LANGUAGES.

First Year.

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

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

Second Year.

Hebrew Grammar, with special attention to syntax; translation at sight; translation of English into Hebrew; outlines of Hebrew literature.

Exodus I, II; Ruth; 1 Samuel XVII; 1 Kings V, VIII; 2 Kings XVIII, XIX; Isaiah I, II, V, VI; Psalms I, II, VIII, XIX, XXIII.

* *Hebrew*: Historical and narrative Prose—Exodus VI-XIX; Leviticus I, II; Numbers XXI-XXIV; Deuteronomy I-XIII; Judges XIV-XVI; 1 Samuel XVIII, XIX; 2 Samuel XVII-XVIII; 1 Kings XVII-XIX; 2 Kings XVI, XVII; 2 Chronicles XXX. Harper's Hebrew Syntax. Hebrew prose composition. Translation at sight of prose passages. Semitic geography and antiquities.

* *Aramaic*: Brown's Aramaic Method, with extracts from Targums.

* Nestle's Syriac Grammar with Chrestomathy.

Third Year.

Translation at sight and composition continued.

Isaiah XL-XLV; Jeremiah IV-VIII; Ezekiel XVII, XVIII; Joel; Nahum.

* *Hebrew*:—Amos I-VI; Micah V-VII; Isaiah VII-XIV, XXV, XXVIII, XXXII, XXXV, XLVI-LXVI; Jeremiah XIV-XVII, XXII, XXIII; Ezekiel XXVI, XXVII; Haggai. Syntax and composition continued. Introduction to the literary study of the prophetic writings.

* *Biblical Aramaic*: Outlines of the grammar with selections from Baer's texts of Daniel and Ezra.

* *Arabic*: Introduction to Arabic literature. Socin's Arabic Grammar with Chrestomathy and exercises.

Fourth Year.

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

* Only for Candidates for Honors.

* *Hebrew*: Characteristics of Hebrew poetry and of the several poetical books. Psalms XV-XXXIV, XXXIX-LV, LXXII-LXXVII, LXXXIV-LXXXVII, XCI, CII-CIV, CX, CXXX, CXXXVII, CXLV-CL; Proverbs IX-XII, XV, XXX, XXXI; Job V-XIV, XIX, XXVIII.

* *Assyrian*: Babylonian and Assyrian history. Introduction to the literature with the history of modern discoveries and their relations with the Old Testament; Lyon's Assyrian Manual, with the original texts in Rawlinson's Cuneiform Inscriptions of Western Asia; Delitzsch's Assyrische Lesestücke.

* Comparative grammar of the Semitic languages.

DEPARTMENT OF HISTORY.

History.

First Year.

General History of Greece to the Roman Conquest, B.C. 146.

COX: General History of Greece (Student's series).

General History of Rome to Romulus Augustulus, A.D. 476.

MERIVALE: General History of Rome (Student's series).

Second Year.

OUTLINES OF MEDIEVAL HISTORY: Italy, France, Germany, Spain, England, Scotland, Ireland. Intrusion of the Barbarians on the Roman Provinces. The Crusades. The rise of the Ottoman Power.

Third Year.

OUTLINES OF MODERN HISTORY: England, France, Germany, Spain; the United States to the Peace of 1815, and Canada to 1867.

* **Ethnology.**

Fourth Year.

With especial regard to its anthropological aspects.

DEPARTMENT OF HISTORY AND POLITICAL SCIENCE.

Second Year.

HISTORY: Outlines of Mediaeval History—Intrusion of the Barbarians on the Roman Provinces. The Crusades. The rise of the Ottoman Power. Italy, France, Germany, Spain, England, Scotland, Ireland.

* Only for Candidates for Honors.

*POLITICAL ECONOMY : The elements of Political Economy : value, price, wages, interest, profits, rent.

*CONSTITUTIONAL HISTORY : English Constitutional History. Candidates will be expected to show a textual knowledge of the following documents : Assize of Clarendon, Magna Charta, Parliamentary Writs of 1295, Petition of Right, Habeas Corpus, Bill of Rights, Act of Settlement (Stubbs, Select Charters).

Canadian Constitutional History.

Third Year.

HISTORY : Outlines of Modern History—England, Germany, France, Spain, United States, to Peace of 1815, and Canada, to 1867.

ENGLISH CONSTITUTIONAL HISTORY AND LAW : Taswell-Langmead, Constitutional History of England. Bagehot, The English Constitution. Dicey, The Law of the Constitution.

*THE HISTORY AND CRITICISM OF ECONOMIC THEORY : Candidates are required to give special attention to, (i.) Adam Smith, Wealth of Nations, Book I., chap. 10, part 2; Book IV, chaps. 1, 2, 3, part 2 and chap. 7, (ii.) Malthus, Essay on Population, Bk. I., chaps. 1, 2, (iii.) List, National System of Political Economy (trans. Sampson Lloyd), chaps. 10, 11, 12, (iv.) Ricardo, Principles of Political Economy, chaps. 1-6.

*ENGLISH AND COLONIAL CONSTITUTIONAL LAW : Candidates are required to give special attention to the following topics :

The legislative power of Parliament, the modes in which it is exercised, and its extent as to territory and persons, the prerogative of the Crown, the privileges of the Houses of Parliament, the constitutional position of the Privy Council, the Ministers of the Crown, the Courts of Law, the Armed Forces, and the Colonies.

*HISTORY OF ENGLISH LAW † Candidates will be expected to acquaint themselves with the general history of the Courts of Common Law and Equity, and with the outlines of existing English Law.

*HISTORY OF ROMAN LAW † Including its origin and development, its influence, its main outlines, and its present position in the modern civil law.

Fourth Year.

POLITICAL SCIENCE : 1. Economics—Symes, Political Economy ; Ely, Introduction to Political Economy.

2. Federal Constitutional Law—Bourinot, Manual of the Constitutional History of Canada ; Cooley, Constitutional Law of the United States.

Candidates will be expected to show a textual knowledge of the British North America Act, and of the Constitution of the United States.

*Only for Candidates for Honors.

†An alternative is allowed between the Honor Ethics and either the History of English Law or the History of Roman Law of the third year.

***ECONOMIC HISTORY** : Under this head will be included such topics as the manor, guild, hanses; the domestic system of industry; the great trading companies, such as the East India Co.; enclosures; agricultural changes of the 16th, 17th and 18th centuries in England; the mercantile system and protection; the measures of Colbert; the factory system; recent economic legislation.

***PUBLIC FINANCE** : Under this head will be included such topics as the following: taxation, public debts, currency (including banking), municipal finance, public domain, government works.

***FEDERAL CONSTITUTIONAL LAW** : Candidates will be examined in the law relating to the constitutional powers of the Dominion and Provincial Governments, and of the United States. They will be expected to acquaint themselves with the chief documents and decisions bearing on the subject, and to give special attention to the following: Commissions to the Governors of Nova Scotia (1749), Prince Edward Island (1766), and New Brunswick (1784); Articles of Capitulation of Montreal (1760); Clauses of the Treaty of Paris relating to Canada (1763); Royal Proclamation under the Treaty of Paris (1763); Judgment of Lord Chief Justice Mansfield in *Campbell v. Hall* (1774); Quebec Act (1774); Constitutional Act (1791); Union Act (1840); British North America Act (1867), and amending Acts; and also to give special attention to the Constitution of the United States.

***POLITICAL PHILOSOPHY** : The history and criticism of political theories. Candidates are expected to give special attention to, (i.) Plato's Republic, Bks. II and V (in the translation of Jowett or Davies and Vaughan), (ii.) Aristotle's Politics, Bk. I, Bk. II up to chap. 6, Bk. III, Bk. V (in the translation of Jowett or Welldon), (iii.) Hobbes, Leviathan, chaps. 17, 18, (iv.) Locke, Two Treatises on Government, Bk. II, (v.) Rousseau, Contrat, Social, (vi.) Burke, Appeal from the New to the Old Whigs, (vii.) Bentham, Fragment on Government, (viii.) Herbert Spencer, Man v. The State, (ix.) T. H. Green, Lectures on Political Obligation: Lectures A, M, N, in Philosophical Works, vol. II.

***GENERAL JURISPRUDENCE** : Candidates will be examined on the principles of Analytical Jurisprudence, and on the early history of legal institutions. They are recommended to read Holland, Elements of Jurisprudence; Campbell's Students' Edition of Austin, Elements of Jurisprudence; Maine, Ancient Law, and Early History of Institutions, Lectures XII, XIII.

***INTERNATIONAL LAW.**

***ETHNOLOGY** : With especial regard to its anthropological aspects.

***THE LAW OF CONTRACTS** : The Law of Contracts is a necessary part of the LL.B. course.

*Only for Candidates for Honors.

THE UNIVERSITY OF TORONTO
DEPARTMENT OF PHILOSOPHY.

Second Year.

†LOGIC : Formal and Inductive.

†PSYCHOLOGY : The Senses; the Intellect; the Feelings.

Third Year.

PSYCHOLOGY : The Will.

ETHICS : Theory of Obligation; Ethical Systems.

*PSYCHOLOGY : General.

*ETHICS : Theory of Obligation; Ethical Systems; Cicero, *De Finibus*, Bb. I, II (in the original).

*HISTORY OF PHILOSOPHY : Ancient and Mediæval.

An alternative is allowed between the Honor Ethics, and either the History of English Law, or the History of Roman Law of the Third year.

Fourth Year.

HISTORY OF PHILOSOPHY : Modern (Descartes to Kant).

*HISTORY OF PHILOSOPHY : Modern.

*ETHICS : Aristotle, Nicomachean Ethics, Bb. I-IV, inclusive (in the original). To be taken with the work of the Department of Classics of the same year.

*METAPHYSICS : Constructive—Theory of Being and Knowledge. Kant, *Prolegomena to Metaphysics*, §§1-39 inclusive, in the original. (Not required of candidates who take Pass Latin instead of Pass German in the Second and Third Years.) Work of previous years.

NOTES.—1. Honor Candidates of the Fourth year, in 1895, are not required to take the Pass paper of the year.

2. Students who avail themselves of the Hebrew option in the first, second, and third years, may read Kant in translation.

DEPARTMENT OF MATHEMATICS AND PHYSICS.

Mathematics.

First Year.

ALGEBRA : Simple equations of one, two and three unknown quantities; easy quadratic equations of one and two unknown quantities; elementary treatment of variation, proportion, and progressions.

† For Pass and Honors.

* Only for Candidates for Honors.

EUCLID: Bb. IV, VI, and definitions of B. V.

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.

(a) Permutations and combinations (only those propositions that are necessary to an understanding of the binomial theorem); binomial theorem; elementary analytical geometry of two dimensions.

*Algebra, omitting Theory of Probability.

*Plane Trigonometry.

*Analytical Plane Geometry (C. Smith).

Second Year.

Elementary Treatment of Differential and Integral Calculus.

*Newton's Principia, Sec. I.

*Differential Calculus (Williamson).

*Integral Calculus (Williamson).

*Solid Geometry (C. Smith).

*Spherical Trigonometry (Todhunter).

*Theory of Equations. (For Reference—Burnside and Panton).

*A special paper on Physics, as prescribed in the Pass Course for the Second year will be set for Honor Candidates.

Third Year.

Elementary Treatment of the Doctrine of Probability.

Fourth Year.

Astronomy.

*Modern Geometry or Plane Astronomy.

*Higher Plane Curves.

*Higher Algebra.

*Differential Equations.

*Theory of Probability.

*Quaternions.

*Problem Papers of First and Second years.

NOTE.—Honor Candidates in Mathematics of the Fourth year are not required to take the Pass papers of the year.

Physics.

First Year.

Elementary Mechanics, Hydrostatics and Heat, only definitions and statement of principles, with easy illustrations, will be required.

(a) Optional except where specially prescribed.

* Only for Candidates for Honors

Second Year.

Electricity and Magnetism.
Geometrical optics.

Third Year.

Elements of Acoustics.
*Analytical Statics (Minchin).
*Dynamics of a Particle (Tait and Steele).
*Newton's Principia, Secs. II and III.
*Geometrical Optics. (Course set forth in Prof. Loudon's Syllabus).
*Hydrostatics (Besant).
*Rigid Dynamics.
*Practical Work in the Laboratory.

Fourth Year.

*Elasticity.
*Hydrodynamics.
*Acoustics.
*Physical Optics.
*Thermodynamics (Clausius).
*Electricity and Magnetism.
*Method of Least Squares.
*Laboratory Practice (at least 150 hours).

DEPARTMENT OF CHEMISTRY AND MINERALOGY.

First Year.

*Elements of Analytical Geometry.
*Elementary Chemistry.

Second Year.

Elementary Chemistry.
*Elementary Differential and Integral Calculus.
*Physics : Theoretical and Practical, comprising Mechanics, Hydrostatics, Heat.
*Inorganic Chemistry with Laboratory Practice.
*Mineralogy : Theoretical and Practical.

Third Year.

*Light, Heat, Electricity : Theoretical and Practical.
*Organic Chemistry with Laboratory Practice.
*Spectrum Analysis and Determinative Mineralogy.
*Crystallography.

* Only for Candidates for Honors.

Fourth Year.

- *History of Chemical Theory.
- *Advanced Inorganic and Organic Chemistry.
- *Physical Chemistry with Laboratory Practice.
- *Advanced Mineralogy and Crystallography.
- *Assaying (practical).

DEPARTMENT OF NATURAL SCIENCES.**First Year.**

- Elementary Biology.
- *Elementary Chemistry.
 - *Physics; elementary course with laboratory work.
 - *Practical work in Biological Laboratory; special attention will be given in the examination to accuracy and neatness in drawing.

Second Year.

- *CHEMISTRY :—
 - Inorganic Chemistry.
 - Qualitative Inorganic Analysis.
- *BIOLOGY :—
 - Structure and classification of flowering plants, with special reference to the Canadian flora.
 - Zoology of Vertebrata.
 - Canadian vertebrate fauna.

For Laboratory Work: The candidate is expected to be familiar with the principal methods employed in the investigation of the structure of plants and animals, with the structure of the forms described in Huxley and Martin's Elementary Biology, and with the histology of the higher types of these.
- *MINERALOGY AND GEOLOGY :—
 - Elementary mineralogy.
 - Geology and physical geography.
 - Principles of crystallography.
 - Use of the blowpipe in the practical examinations of minerals.

Candidates will be required to present certificates of attendance at the laboratories of the University of Toronto as follows: of 100 hours in Biology, 120 in Chemistry, and 75 in Mineralogy and Geology.

Third Year.

- *CHEMISTRY :—
 - Organic chemistry.
 - Qualitative and quantitative analysis.

* Only for Candidates for Honors.

*BIOLOGY :—

Structure and classification of cryptogamic plants, with practical knowledge of typical forms of the various orders.

Vegetable physiology.

Zoology of invertebrata, with practical knowledge of typical forms of the various orders.

*MINERALOGY AND GEOLOGY :—

Economic minerals of Canada, with practical determinative work.

Paleontology (Invertebrata).

Candidates will be required to present certificates of attendance at the laboratories of the University of Toronto as follows : of 160 hours in Biology, 160 in Chemistry, and 100 in Mineralogy and Geology.

Fourth Year.

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

*DIVISION I.—BIOLOGY.

Classification and comparative anatomy of vertebrata.

Paleontology of vertebrata.

Embryology of vertebrata.

Physiology.

Histology.

Physiological chemistry.

Bacteriology in its biological and chemical aspects.

History of modern biological problems.

*DIVISION II.—GEOLOGY.

Crystallography and advanced mineralogy.

Geography of Canada.

Paleontology of vertebrata.

Mining geology.

Candidates will be required to present certificates of attendance at the laboratories of the University of Toronto of 400 hours in Biology, 200 in Geology.

* Only for Candidates for Honors.

Undergraduate Courses of Instruction in Arts.

The courses of instruction in the University of Toronto and University College are based upon the Curriculum, as above (pp. 57-74). The following statements regarding the scope and aim of the courses are added in cases in which such additional information is considered desirable:—

Classics.

It is intended that students in this department should acquire at least so much knowledge of the language, the literature, the history and the philosophy of Greece and Rome, as is necessary for the comprehension of the prescribed authors; for this purpose, the following books are recommended for ordinary use or for occasional reference:—

Philology: King & Cookson (abridged edition); Delbrück, Introduction to the Study of Language (translation)—Ginn, Heath & Co., Boston; Whitney, Language and the Study of Language; Müller's Lectures on the Science of Language, 1st series; G. Curtius' Outlines of Greek Etymology; Curtius' Greek Verb; Leo Meyer's Comparative Grammar; Brugman's Comparative Philology; Henry's Comparative Grammar of Greek and Latin (Elliott's translation). *Grammar*: Jelf's Greek Grammar; Curtius' Student's Greek Grammar; Madvig's and Roby's Latin Grammar; Madvig's Greek Syntax; Goodwin's Greek Moods and Tenses (edition 1890); and Greek Grammar; Schmidt's Rhythmic and Metric. *Dictionaries*: Liddell and Scott's Greek (7th ed.); Andrew's Latin Dictionary; Harper's Latin Dictionary; Facciolati's Lexicon. *Literary History*: Mahaffy's Greek Literature; Jevons' Greek Literature; Teuffel's History of Roman Literature; Crutwell's History of Roman Literature; Sellar's Roman Poets of the Republic; Sellar's Virgil, and Sellar's Horace and the Elegiac Poets; Abbott's Hellenica; Mure's History of Greek Literature; Donaldson's History of Greek Literature; Haigh's Attic Theatre; Moulton's Ancient Classical Drama; Campbell's Greek Tragedy; Verrall's Students' Greek Tragedy; Coleridge's Introduction to the Greek Classic Poets; Symond's Studies of the Greek Poets; Geddes' Homeric Problem; Jebb's Attic Orators; Wilkins' Homer and the Homeric Question; Jebb's Homer; Nettleship's Lectures on Latin Literature. *Biography and Mythology*: Smith's Dictionary; Seyffert's Dictionary; Frazer's Golden Bough. *Ancient Philosophy*: Zeller's Pre-Socratic Philosophy; Zeller's Socrates; Zeller's Plato; Zeller's Stoics, Epicureans, and Sceptics; Zeller's Eclectic Philosophy; Grant's Aristotle's Ethics; Mayor's History of Ancient Philoso-

phy; Benn's Greek Philosophers; Ferrier's Lectures on Greek Philosophy; Pater's Marius the Epicurean; Capes' Stoics; Wallace's Epicureanism; Stewart's Aristotle's Ethics; Moore's Aristotle's Ethics (Books I-IV); Pater's Plato and Platonism. *Antiquities*: Smith's Dictionary (3rd edition); Gow's Companion to School Classics.

English.

A. Pass Courses:—

FIRST YEAR.—An attempt is made to develop the appreciation of literature through the study of three selected plays of Shakespeare. The student is expected to master the explanatory notes of some good edition, such as Rolfe's, and the lectures are mainly devoted to exhibiting the beauty, effectiveness, and truth of the poet's works. Composition is taught through the study of good models of modern English prose (essayists of the present century), and through the writing and criticism of original essays. Four of these are required from each member of the class, and count as term work.

SECOND YEAR.—The study of literature is continued by the reading and minute examination of select works of some one writer (Scott in Session 1894-95). In composition special attention is given to structure,—the arrangement of thought, so as to make the composition an effective whole. Four essays (one at the end of each of the months October, November, January, and February) on subjects assigned by the instructor are required as term work. These are discussed in the class, and, in as far as time permits, privately with the individual writers.

THIRD YEAR.—The student is introduced to the study of the history of literature. The period selected extends from 1660 to 1793. The members of the class are required to familiarize themselves with a number of typical works of the time. The lecturer, besides attempting to help the student towards the understanding and appreciation of these works, treats the literature of the period as a whole, and exhibits the ideas and tendencies which stamp all the literature of the period with certain common peculiarities.

FOURTH YEAR.—In this year selected works of the nineteenth century are treated in a similar way, and their characteristics are contrasted with those of the preceding literary period. But more attention is given to the differences between individual writers and to the way in which the character of the man shapes his literary work.

B. Honor Courses:—

In the Honor courses the object is to broaden the knowledge and deepen the insight which the student may acquire in his Pass work, and further, by the study of the earlier forms of the language to fit him either for the teaching of English in the schools, or for the advantageous prosecution of post-graduate work on the subject. In all the years not only are the Pass subjects incumbent on the student, but constitute an extremely important part of his work. His knowledge of these subjects is expected to be of a wider, more accurate, and altogether higher character than that expected of the mere Pass students.

FIRST YEAR.—The study of Anglo-Saxon is taken up in the Early West Saxon dialect of Ælfred. An introduction to the phonology will be given in the lectures, but the main object will be to secure familiarity with the accidence of the language in its earliest development, and the philological interpretation of the selections read. Certain cantos of the Faery Queene (Bk. II, v-viii. in Session 1894-5) afford materials for comparison with Tudor English, and serve as a basis for subsequent studies in the development of English poetry.

SECOND YEAR.—The Early West Saxon is continued, and the Late West Saxon of Ælfric taken up. A careful comparative study of these two stages in the history of Anglo-Saxon is followed by a similar line of comparison between Old English and Middle English as represented by Chaucer, whose works are also dealt with from a literary standpoint.

THIRD YEAR.—The introduction of Gothic in the Honor work of this year is for the purpose of giving wider scope to the comparative method of treatment. Stress will be laid on the accidence, which will be made to illustrate the origin of the Anglo-Saxon forms. In reading the Anglo-Saxon poetry special attention will be directed to the metrical form and literary characteristics of the authors taken up. A play of Shakespeare (*Tempest* in Session 1894-95) will also be read and dealt with from a literary standpoint.

FOURTH YEAR.—I. In literature the Elizabethan period is selected for study. The student is expected to make a minute and critical study of certain selected works, and to extend his knowledge by a careful reading of others. The class work is partly devoted to the special examination of these works, partly to an exemplification, by lectures, of the general characteristics of the period. With a special view to training in accurate scholarship, and to preparation for teaching, each student in succession is required to interpret before the class a part of a play of Shakespeare (*Hamlet* in Session 1894-95), and informal meetings are also held in which the members of the class are led to discuss selections from the Pass or Honor works. Finally, an essay requiring a certain amount of investigation on some topic connected with the course must be submitted to the instructor, and may be read before the class. These essays count for Honors.

II. Lectures will be given on Historical English Grammar, and as an introduction to *Béowulf*. The reading of *Béowulf* will be carried on as seminary work and will embrace textual criticism and the grammatical, metrical and literary investigations connected with the poem. Such work counts for Honors in the final examination.

French.

The instruction in French has for its subject matter: (1) The spoken and written language of the present day; (2) the history of the literature; (3) the history of the language. The organization of the courses of study is as follows:—

A. *Pass Courses* :—

FIRST YEAR.—The aim is to give the student an acquaintance with the simplest forms of the language, spoken and written. The class work consists of exercises in pronunciation, dictation, translation into French, and the reading of easy French authors.

SECOND YEAR.—The student is introduced to more difficult forms, and is expected to become familiar with the most common French idioms to be found in ordinary writers, as well as to translate into French sentences and passages which present no unusual difficulty. In this way the student should be able by the end of the year to read modern French prose with some ease.

THIRD YEAR.—The exercises of the first two years are continued, and increase in difficulty. The systematic treatment of the history of the literature begins with an outline of the earlier epochs, and deals more particularly with the seventeenth century, for which period illustrative selections of masterpieces are made for reading and analysis in the class-room.

FOURTH YEAR.—The practical exercises of the previous years are continued, and composition on simple subjects is added. The eighteenth and nineteenth centuries form the subject of the lectures on the history of the literature, which are supplemented by the reading of certain leading authors of that period.

B. *Honor Courses* :—

FIRST YEAR.—The work in grammar and translation is of a more advanced character than the Pass work of the year. Particular stress is laid on pronunciation and advanced exercises in translation into French. Incidentally the attention of the student is called to some of the more striking and interesting topics in connection with the history of the language and literature.

SECOND YEAR.—The work of the First year in grammar, pronunciation and translation is continued, and to it are added introductory exercises in conversation and composition on simple subjects. The student by the end of this year should be able to pronounce well, write fairly good prose, speak a little, and read easily.

THIRD YEAR.—Almost the whole attention of the student is directed to conversation, in connection with which French newspapers are read, to composition on topics chosen from the life and customs of the French people, and to the literature of the seventeenth century, to illustrate which a number of Molière's plays are read, as well as the authors prescribed for Pass work. A few lectures are also given on the history of the language in connection with the reading of a selection from the *Chanson de Roland*.

FOURTH YEAR.—The work of the Third year in conversation, composition and incidental study of French life is continued. The history of the literature in the eighteenth and nineteenth centuries is studied, and selections from important writers are read to illustrate the lectures, the chief stress being laid on the study of certain works of Victor Hugo. The study of the history of the language is continued in connection with the reading of a selection

from the *Chanson de Roland*. Students are also encouraged to undertake the independent study of topics in connection with the history of the language and literature.

In this department the Pass and Honor classes are completely separated, except in the lectures on the history of the literature in the Third and Fourth years. The Pass students are divided into sections of about thirty, and the Honor students into sections of from five to eight for oral exercises of various kinds.

German.

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. Pass Courses :—

In these courses, the objects are to attain facility in reading German authors at sight, and an acquaintance with the history of German literature in outline. The former object is sought to be attained by, (a) practice in dictation, translation at sight from German authors and translation, both prepared and unprepared, from English into German, together with a certain amount of practice in speaking. For this purpose, each year is divided into sections, as necessary, two hours weekly being given each section in the First and Second years respectively, and one hour each in the Third and Fourth years. Stein's "German Exercises" is the book used for practice in translation into German ; (b) careful reading of the texts prescribed, to which one hour weekly is devoted in each year. The periods of literary history presented are as follows : In the Second year, a study of the lives of Goethe and Schiller, for which the text-books recommended are Sime's "Goethe" and Nevinson's "Schiller." In the Third year, the literature of the 18th and 19th centuries ; in the Fourth, that previous to the 18th century, for which Gostwick and Harrison's "Outlines of German Literature" is recommended as a text-book.

B. Honor Courses :—

(a) Practice in translation from English into German, and in German composition. For this purpose, each year is divided into sections as required, conversation being also practised, especially in the Third and Fourth years. The books used for translation into German are Macmillan's German Prose Composition, Part I, and Harris's German Composition, also Buchheim's German Prose Composition in the Third and Fourth years.

(b) Careful reading of the texts prescribed in the First and Second year, and minute reading of Goethe's *Faust*, Part I, in the Third year.

(c) History of Literature. In the Second year the period selected is that from Klopstock to Goethe, with some knowledge of the leading authors of that period. Gostwick and Harrison's "Outlines" is recommended. In the Third year lectures are delivered on the literature of the 18th century, and the fol-

lowing authors and works have been selected for special study, the cheapest and most available editions being specified: Gottsched (Kürschner's Deutsche National Literatur, No. 33), Einleitung, der sterbende Cato; Wieland, Oberon, Cantos 8 and 9 (Reclam); Klopstock, Messias, Canto 1 (Kürschner No. 34); Bürger, Poems (in Golden Treasury Series), Balladen and Romanzen; Lessing, Minna von Barnhelm and Emilia Galotti; Herder, Ossian, Shakespeare (Kürschner); Schiller, Wallenstein's Tod. Students are required to possess themselves of copies of the above works. They are also referred to Lessing's life by Sime. In the same year a special study is made of Goethe's life and times to the end of the 18th century, and of the following works in addition to the first part of his "Faust": Götz von Berlichingen, Leiden des jungen Werthers, Iphigenie, Hermann und Dorothea, Poems (Sonnenschein's Selection). The study of Goethe's life is taken up chiefly in connection with the reading of "Faust." In the Fourth year lectures are given on the literature of the 19th century, and the following works have been selected for special study, copies of which each student should possess: Jean Paul, Quintus Fixlein (Reclam); Tieck, der gestiefelte Kater (Kürschner, No. 53); Kleist, der Prinz von Homburg (Brockhaus); Körner, Leyer und Schwert (Reclam); Uhland, Ballads (Golden Treasury Series); Heine, Poems (ed. White, Heath & Co.); Freytag, Soll und Haben (abdg. by Crump); Keller, Romeo und Julie aus dem Dorfe (Neuer Deutscher Novellenschatz); Scheffel, Ekkehard (abdg. by Wenckebach); Sudermann, die Ehre. The life and works of Goethe, and his influence on the literature of the 19th century, will also be studied, the following works being selected for perusal: Faust, Part II, Acts III, IV, V; Wilhelm Meister's Lehrjahre, Bks. I-V; Wahlverwandschaften. The student is also referred to the following in the original or in translation: Goethe's Autobiography; Eckermann's Conversations with Goethe; Correspondence of Goethe and Schiller; also Düntzer's Life of Goethe (transl. by Lister).

(d) History of the German Language. The study of the older forms of the language is begun in the Third year with the elements of Middle High German grammar (Wright's Middle High German Primer) and the careful reading of selections from the Nibelungenlied as prescribed. In the Fourth year elementary instruction is given in the comparative and historical grammar of the language, including grammar and phonology of Old and Middle High German (Wright's Primer), and the phonology, accent and syntax of Modern High German, considered in their growth and development. In illustration, selections from Old High German authors in Wright's Primer, and the poems of Walther von der Vogelweide are carefully read in class.

Italian.

The courses in this subject extend over four years, and are arranged with the object of giving the student (1) a knowledge of the Italian language of the present time; (2) an appreciation of the more important masterpieces of Italian literature proportionate to his knowledge of the language; and (3) an elementary acquaintance with the historical development of the Italian language and literature.

FIRST YEAR.—Simple narratives by de Amicis are used as a basis for instruction in grammar, and for the acquisition of vocabulary and idiom. Elementary exercises in translating English into Italian are continued throughout the year. A course of lectures on phonetics is given, with special reference to Italian pronunciation, and as a preparation for subsequent study of the history of the language. Dictation and oral practice form a large part of the work at this stage, being regarded as fundamental for the mastery of the language. Phonetic transcription is practised as a means of giving definiteness to the knowledge of pronunciation and orthography.

SECOND YEAR.—The exercises in translation into Italian are continued, being based on the minute study of Italian extracts. These extracts are also used to afford oral practice in composition. Dictation and phonetic transcription are continued. The authors prescribed, Goldoni and Salvatore Farina, are read more with a view to the acquisition of the language than with reference to their literary value. The knowledge of grammar is increased in connection with the work in composition and the reading of the prescribed texts.

THIRD YEAR.—The work in composition consists largely of the translation into Italian of prose extracts of a varied character. Oral composition, dictation and transcription are constantly practised. The authors prescribed, Alfieri, Foscolo, Tasso, Dante, are read minutely as to the interpretation of the thought and the appreciation of the literary form. The history of literature and historical phonology are presented in outline.

FOURTH YEAR.—Original composition in Italian is required, as well as the translation of English prose extracts of an advanced character. Dictation is continued, and oral practice is afforded by conversation in Italian. The reading of modern prose is continued with Manzoni and Leopardi. Dante, Petrarca, and Boccaccio are read minutely from a literary standpoint. Selections from authors antecedent to Dante form the basis for an investigation of the history of the language and its literary origins.

The following editions of some of the texts prescribed are recommended for the purpose of securing uniformity: Alfieri, Saul (ed. Menghini, Sansoni); Foscolo, *Jacops Ortis* (Bibl. naz. ecom.); Tasso, *La Gerusalemme Liberata* (ed. Severino Ferrari, complete, Sansoni); Dante, *La Divina Commedia* (ed. Fraticelli, Barbera); Manzoni, *I Promessi Sposi* (Bibl. naz. econom.); Leopardi, *Prose Scelte* (ed. Fornaciari, Barbera); Boccaccio, *Novelle Scelte* (ed. Dazzi, Barbera); Petrarca, *Rime Scelte* (ed. Mazzatinti e Padovan, Loescher).

Students will also furnish themselves with the following books not mentioned in the curriculum: Grandgent's *Italian Grammar* (1st year); Grandgent's *Italian Composition* (2nd year); Snell's *Primer of Italian Literature* (3rd year).

Spanish.

The courses in this subject begin in the second undergraduate year, and extend over three years. They are on the whole parallel in scope and aim with those in Italian (which see).

SECOND YEAR.—As in Italian special importance is attached from the outset to composition and oral practice in the use of the language. Knapp's

Grammar is used as a text-book, but is largely supplemented by extemporaneous exercises based on the vocabulary and idiom employed in it.

THIRD YEAR.—Dictation, phonetic transcription, and composition, both oral and written, are continued, the latter exercises being based on colloquial Spanish. Modern prose is studied from Knapp's Reader, and dramas by Moratin and Hartzbusch are read with more direct reference to their literary value. Historical phonology is presented in outline, and the history of literature is treated in its more general aspects.

FOURTH YEAR.—Dictation and the oral and written composition exercises based on colloquial Spanish are continued, and this work is supplemented by the translation of idiomatic English extracts of varied character. Facility in the comprehension of modern prose is increased by the reading of Moratin and Galdós, while Cervantes, Lope de Vega and Calderon, are read minutely from a literary standpoint. Selections from Keller's "Altspanisches Lesebuch" form the basis for an investigation of the historical development of the language and earlier literature.

The following editions of some of the texts prescribed are recommended for the purpose of securing uniformity: Hartzbusch, *Los Amantes de Teruel* (ed. Kressner, Gebhardt und Wilisch); Cervantes, *Don Quijote* (Vols. 3 and 4 in the Brockhaus Col. de. aut. esp.); Calderon, *La Vida es Sueño* (ed. Max Von Krenkel, Barth).

Students of the Third Year will also furnish themselves with the following books, not mentioned in the curriculum: *El Eco de Madrid*, with Span.-Eng. vocab. (Leipzig, Violet); *Butler's Hand-book of Spanish Literature*.

Oriental Literature.

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 paramount 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 a twofold one: to give those interested in the Bible a competent acquaintance with the Hebrew text, and to furnish all who desire a liberal education an opportunity of becoming acquainted with the literature and history of the Semites, who divide with the Indo-European race the controlling moral and intellectual influence of mankind. These ends are kept in view in the Pass as well as in the Honor lectures.

For purely linguistic study the Pass course is confined to Hebrew, and is so arranged that, with an average of 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

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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 inscriptional works, to be found in America.

A Seminary in Oriental languages will be held twice a month for the benefit of advanced students, the work done in which will count as part of the seasonal duties. Graduates of the University who may apply for admission may take part in the work of the Seminary.

Books Recommended for Ordinary Use: Strack's Hebrew Grammar; Davies' Hebrew Lexicon; Old Testament Text with Massoretic Clavis; Driver's Notes on Samuel; Berliner's Targum of Onkelos; Conder's Palestine; Wright's Comparative Grammar of the Semitic Languages; Driver's Literature of the Old Testament; McCurdy's History, Prophecy and the Monuments; Articles in the Encyclopædia Britannica on Alphabet, Arabia, Babylonia, Hebrew Language, Mesopotamia, Palestine, Phœnicia, Semitic Languages, Septuagint, Targum.

For Reference: The Hebrew grammars of Green, Harper, Gesenius, and Stade; Driver's Hebrew Tenses; Noeldeke's Syrische Grammatik; Wright's Arabic Grammar; Renan's Histoire des Langues sémitiques; Conder's Palestine; 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: Asia Minor, Bible, Canaanites, Canon, Egypt, Hittites, Inscriptions, Jerusalem, Midrash, Mishnah, Mohammedanism, Nineveh, Samaritans, Syriac Literature, Talmud.

History.

FIRST YEAR.—The following topics are treated in the lectures on Grecian History: Physical configuration and climate of Greece and their effect on the national character; effect of religion and race on the political development of the Greeks; character of Greek civilization as contrasted with that of the East; centrifugal and centripetal political forces; Hellenic myths, their interpretation and historical importance; Greek colonization; growth of the

Athenian Constitution in the direction of democracy; reforms of Solon, Kleisthenes and Perikles; the connection between the extension of the franchise and political and social progress; the Persian war, its causes and results; the confederacy of Delos; the Athenian Hegemony and the Athenian Empire; the age of Perikles and the age of Victoria; the Peloponnesian war, its causes and results; the Spartan and Theban supremacies; the Second Athenian Empire; the Macedonian power under Philip and Alexander; Later Greek history to the destruction of Corinth; social condition of the people; Greek literature and its influence.

SECOND YEAR.—The period to be covered (A. D. 400 to 1453) is so vast that the lectures can deal with only the salient features, viz.: the Barbarian movements which resulted in the overthrow of the Roman Empire in the West and the settlement of Teutonic peoples in Italy, Spain, Gaul and Britain; the revival of the Roman theory of rule in the Holy Roman Empire; the conquests of the Normans; the Crusades; Chivalry; Feudalism; the free Commonwealths of Italy; Arabic Rule and Culture in Spain; the Medieval Spirit.

For Reference.—Portions of the following works to be referred to in the Lectures: Hodgkin, Italy and Her Invaders; Do., The Dynasty of Theodosius; Gibbon, Decline and Fall; Church, Beginning of the Middle Ages; Bryce, Holy Roman Empire; Guizot, History of Civilization in Europe; Cox, Crusades; Hallam, Middle Ages; Duruy, Middle Ages; Do., Histoire de France; Kitchin, History of France; S. Lane Poole, The Moors in Spain; H. E. Watts, Spain; Freeman, Short History of the Norman Conquest; Johnson, Norman Kings and the Feudal System; Stubbs, Early Plantagenets; Traill, Social England; Green, Town Life in the 15th Century; Freeman, Historical Geography.

THIRD YEAR.—The Renaissance movement will be traced with especial reference to the revived scientific and commercial interest which resulted in the discovery of America. Especial emphasis will be laid upon the Spanish, English and French colonial movements in America; the history of France in the 17th and 18th Centuries culminating in the French Revolution; the rise of Prussia as a great power; the development of the British Empire.

For Reference.—Burckhardt's Renaissance in Italy; Marco Polo (translated by Yule); Fiske, Discovery of America; Fyffe, Modern Europe; Stephen's European History; on *England*: Froude, Ranke, Gardiner, Macaulay, Lecky; on *Scotland*: Burton; on *France*: Kitchin; de Tocqueville, France before the Revolution; Stephens, French Revolution; Mignet, French Revolution; on *Germany*: Gardiner, Thirty Years' War; Carlyle, Frederick the Great; on *Canada*: Winsor, Cartier to Frontenac; Parkman, Old Régime and Montcalm and Wolfe; on the *United States*: Lodge, English Colonies in America; Fiske, Critical Period of American History; Geldwin Smith, The United States.

Ethnology.

FOURTH YEAR.—In the lectures some of the more important ethnological and anthropological questions will be discussed, including: The Unity of the Human Species; Man's place in Nature; the mental and moral characteristics and the social condition of primitive man, with especial reference to the Native Culture of America; the Distinctions of Race; Heredity; the Early Home of the Aryans; the Antiquity of Man. The lectures will be illustrated by maps, typical skulls of different races, primitive implements, etc.

For Reference :—Portions of the following works to be referred to in the lectures: De Quatrefage, Human Species; Huxley, Man's Place in Nature; Waitz, Anthropology; Topinard, Éléments D'Anthropologie Générale; Tylor, Anthropology; Boyd Dawkins, Early Man in Britain; Wilson, Prehistoric Man; Fiske, Discovery of America, chapters I, VIII, IX; Winsor, Narrative and Critical History of America, Vol. I, chapters III, IV, VI; Ribot, Heredity; Taylor, Origin of the Aryans; Wright, Ice Age in North America and its Bearings upon the Antiquity of Man.

History and Political Science.*A. Honor Courses* :—

The Honor courses in Political Science with the related Pass courses in languages, mathematics and natural science are intended to afford a means of preparation for those who desire to enter the professions of law, the ministry, journalism or teaching. The special subjects of study are economic history and theory, constitutional history, international and constitutional law, jurisprudence and history. The Honor course begins in the Second year in Arts and continues for three years.

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; Andrew's Institutes of Economics; 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. The chief topics are the Hundred and County Courts, the Witenagemot, the Feudal System, the Growth of Parliament, the Growth of the Cabinet and of Responsible Government. For reference, selected portions of Stubb's Constitutional History, to be designated by the lecturer; Introduction to Stubb's Select Charters; Freeman's Growth of the English Constitution; Bagehot's English Constitution; Wakeman & Hassall's Constitutional Essays (excepting Essay I); Taswell-Langmead's English Constitutional History.

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 Colony 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. 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 U. S. ; 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.)

THIRD YEAR.—*History and Criticism of Economic Theory.* The course of Lectures will present a systematic account of the development of Economic History 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.

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 ; Boutmy'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.

The 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 entails and 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; Hale's History of English Law; Blackstone's Commentaries. Consult also 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; Sanders' 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: The chief text-books are Ashley's Economic History, Parts I-II; Toynbee's The Industrial Revolution. Students are also advised to study Seebohm's English Village Community; Vinogradoff's Villenage in England; Gross' Gild 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 ; Report of Royal Commission on Labour and Capital, Canada, 1889.

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 Canada, Great Britain 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 : The chief text-book is Bastable's Public Finance. The following works should be read : Bastable's The Theory of International Trade ; Seligman's The Incidence of Taxation ; 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 System ; 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.

Political Philosophy. History and Criticism of Political Theories. The principal text-book will be Sidgwick's Elements of Politics. The following are also recommended for study : Pollock's History of the Science of Politics ; Ritchie's Principles of State Interference ; Maine's Ancient Law ; selected portions of Bluntschli's Theory of the State to be designated by the Lecturer.

Ethnology. Ethnology as a factor in ancient and modern history. The science of language. Philological classification of races. Anthropology. Succession of races in different countries in Europe. Physical evidence of diversity of race. Philological evidence. The prehistoric, unhistoric, and historic races. The lectures are illustrated by means of maps, typical skulls of different races, primitive implements, etc. For reference : Max Muller's Science of Language, 1st and 2nd series ; Tylor's Anthropology ; Wilson's Prehistoric Man, 3d ed. ; Pritchard's Researches into the Physical History of Man ; Latham's Ethnology of British Isles ; Latham's Ethnology of Europe.

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).

The English Law of Contracts. A course of lectures will be given on the English Law of Contracts. Reference will be made, as occasion requires, to the Statutes of Ontario, and to cases decided in the Courts of Ontario, as well as to English Statutes and to cases in the English Courts. For reference: Anson, Law of Contracts; Pollock, On Contracts; The Revised Statutes of Ontario, 1887, and the Statutes of subsequent years.

The Law of Contracts is an alternative to the Ethnology of the Fourth year in Arts.

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; 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).

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 nonintervention, 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).

Private International Law. The lectures comprise a discussion of Person, Domicile, Marriage, Divorce and Legitimacy, Contracts, Torts, Bankruptcy, Succession and Distribution, Property, Foreign Judgments. For reference: Westlake's Private International Law; Foote's Private International Law, or Guthrie's Von Savigny, and Nelson's Selected Cases illustrative of the principles of Private International Law; Halleck's International Law (Baker's edition), and Pigott's Consular Jurisdiction.

B. Pass Courses:—

Lectures will be given as follows to those students who require to take Political Science as a Pass subject:—

THIRD YEAR.—*Constitutional History.* The elements of English Constitutional History. Books for reference: 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 page 68.

Federal Constitutional Law. Pass candidates will be expected to show a textual knowledge of the British North America Act, and of the Constitution of the United States, and will be examined on the following works: Bourinot, Manual of the Constitutional History of Canada; Cooley, Constitutional Law of the United States. Lectures on the British North America Act for Honor work in the Second year, will be arranged so as to assist Pass students of the Fourth year.

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 the subject.

Philosophy.

The work of this department is pursued during the Second, Third and Fourth undergraduate years. The course embraces Logic, Psychology, Ethics, History of Philosophy, and Metaphysics. In every case the Pass work is to be taken by Honor students, and will be counted along with the Honor work, in determining the standing of students.

Pass Course in Logic:—

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 Forms 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: Jevons, *Elementary Lessons in Logic*; Fowler, *Inductive Logic*.

Honor Course in Logic:—

SECOND 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 Pass lectures will not be taken up here, but will be presupposed. Books recommended: Mill, *System of Logic* (Books I-IV); Bradley, *Principles of Logic*; Venn, *Empirical Logic*; Jevons, *Principles of Science*; Jevons, *Studies in Logic*.

Pass Courses in Psychology:—

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, except the will. The course is designed to introduce

the subject, to familiarise the student with fundamental principles, and lead him to observe his own mental states. Term work is required. Books recommended: Baldwin, Elements of Psychology (Parts I-III); Höffling, Outlines of Psychology.

THIRD YEAR.—This course is intended as a continuation of that given in the Second year; so that the student at the end of his Third year should have a tolerably adequate knowledge of the whole field of Psychology in outline. The lectures deal chiefly with the springs of action and the growth and nature of Volition. The nature of Motive; its relation to Volition; the significance of Habit, and its bearings on Character and the Moral Life, are some of the topics discussed. Books recommended: Baldwin, Elements of Psychology (Part IV); Höffling, Outlines of Psychology (Chaps. VI-VII).

Honor Courses in Psychology:—

SECOND YEAR. - (a) General: A course is given, in which some of the more difficult topics are carefully and critically discussed. Books recommended: Baldwin, Handbook of Psychology (Parts I-III); Bain, Senses and Intellect; Spencer, Principles of Psychology; Sully, The Human Mind. (b) Experimental: The lectures on experimental Psychology are of an introductory nature, and deal with psychological methods and their application, having special regard to the lower senses (touch, temperature, taste, smell, muscular sense, etc.). Books recommended: Ladd, Outlines of Psychology; Baldwin, Handbook of Psychology, vol. I.

THIRD YEAR.—(a) General: A course of lectures is given, dealing more carefully and critically than is possible in the Pass courses, with the special problems connected with the Will. The Attention will here be a leading topic. Representative theories of Attention and Will are studied. Portions of the works mentioned below may be selected for special study in the class: Baldwin, Handbook of Psychology (Part IV); Bain, Emotions and Will; James, Principles of Psychology (Chaps. XI and XXVI); Tracy, The Psychology of Childhood. (b) Experimental: The lectures on experimental Psychology have special reference to the higher senses, and deal with the chief questions of contemporary Psychology, in so far as they are accessible to exact investigation, special attention being devoted to the quantitative, qualitative, emotional, time and space relations of mental phenomena. The practical work of the laboratory is designed to afford the student an opportunity to become familiar with experimental methods. Books recommended: Wundt, Physiologische Psychologie (4th ed.); Ladd, Elements of Psychology; Külpe, Grundriss der Psychologie. (c) Lectures are also given on historical and comparative Psychology. Books recommended: Ribot, German Psychology of To-day.

FOURTH YEAR.—An opportunity is afforded to students of the Fourth year and to graduates to undertake, in the laboratory of the department, independent investigations on such problems of empirical Psychology as are accessible to exact experiment.

Pass Courses in Ethics:—

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, Intuitional 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 term. Books recommended: Calderwood, Handbook on Moral Philosophy; Muirhead, Elements of Ethics. (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.

Honor Courses in Ethics:—

THIRD YEAR.—(a) Selected Readings: Cicero, De Finibus Bonorum et Malorum (I-II), in the original (to be read in connection with the Department of Classics). (b) Theory of Ethics: The students in this course will make, under the guidance of the professor in charge, a careful and special study of Green's Prolegomena to Ethics. Lectures will be given to assist in the exposition, explanation, and estimation, of Green's position. (c) History of Ethics: This course is supplemental to, and given in connection with, the Pass 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. Students are required to read Martineau: Types of Ethical Theory. The following are also recommended: Butler's Sermons; Mill, Utilitarianism; Spencer, Principles of Ethics; Janet, Theory of Morals; Sidgwick, Methods of Ethics; Jodl, Geschichte der Ethik. (d) 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.—Students are expected to read the Nicomachean Ethics of Aristotle (Books I-IV) in the original. Lectures on the text will be taken in connection with the Department of Classics. Lectures will be given by the Professor of Ethics on the Ethics of Aristotle, and of Kant as given in the Kritik der Praktischen Vernunft. A Seminary will also be held for the reading and discussion of papers written by the students, on Ethical topics, historical, theoretical and applied. Books recommended: On Aristotle, Grant; on Kant, Semple, Porter, Schurman, Green.

Pass Course in the History of Philosophy:—

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: Schwegler, Falckenberg, Windelband.

Honor Courses in the History of Philosophy:—

THIRD YEAR.—Lectures are given on the History of Ancient and Mediæval 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: Zeller; Ueberweg; Butler; Erdmann; Ferrer; Schwegler; Benn; Tennemann; Burt; Mayor; Scott; Jowett's Plato; Grote's History of Greece (chapter on the Sophists); Aristotle's works. Students are also required to read Plato's Phædrus in the original (lectures on the text to be taken in connection with the Department of Classics).

FOURTH YEAR.—(a) Pre-Kantian Period: Honor students will attend the lectures on this period given to the Pass students (see above), and the class reading selections in Metaphysics (see below). Books recommended: Ueberweg; Erdmann. (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; Bernard; 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, and Herbert Spencer.

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. (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 Leibniz, Dewey; 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, Collins; on Schopenhauer and Von Hartmann, Bowen.

Honor Courses in Metaphysics:—

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 criticise 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's, Locke and Berkeley (Blackwood's series); Green, *Introduction to Hume*; 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. Honor students are required to read Kant's *Prolegomena* (of which paragraphs 1-39 must be read in the original); Lotze's *Metaphysic*; Des Cartes, *Meditations and Method*; Spinoza, *Ethics*; Hamilton, *Lectures on Metaphysics*; Spencer, *First Principles*. Of these the first two are carefully studied in the class; the others are made the basis of special exposition in lectures; the principles and methods of philosophical speculation; the correlation of different disciplines; and the interrelation of Logic, Psychology, Metaphysic and Ethics, are carefully considered. 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.

Mathematics.

The Department of Mathematics is furnished with the admirable thread and plaster models of Brill for illustrating the teaching of Geometry in three dimensions.

Physics.

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 Natural Science and 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 for students of the Third year in Arts, and (5) advanced courses on Mathematical Physics for Honor students in the 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.

Chemistry.

The following lectures will be delivered :—

Inorganic Chemistry.—A special course for First year students in Honor Chemistry and Mineralogy; an elementary course for pass students of the Second year and Honor students of the First year in Chemistry and Mineralogy, and Natural Sciences; an advanced course for Second year Honor students in Chemistry and Mineralogy, and Natural Sciences; a special course for Second year Honor students in Chemistry and Mineralogy; an elementary course for First year Pass and Honor students in the Faculty of Medicine.

Organic Chemistry.—An elementary course for Third year Honor students in Chemistry and Mineralogy, and Natural Sciences; an advanced course for Honor students of the Third year in Chemistry and Mineralogy; a course on Organic Synthesis and Stereo-chemistry for Honor students of the Fourth year in Chemistry and Mineralogy; an elementary course for students of the Second year in the Faculty of Medicine.

Physical Chemistry.—A course on Stoichiometry for Honor students of the Third year in Chemistry and Mineralogy; a course on the Theory of Chemical Affinity for Honor students of the Fourth year in Chemistry and Mineralogy.

History of Chemical Theory.—A course for Honor students of the Fourth year in Chemistry and Mineralogy.

The laboratory practice includes Quantitative Analysis and the preparation and study of selected inorganic compounds for First and Second years Honor Chemistry and Mineralogy, and Second year Natural Science students; inorganic Quantitative Analysis and Volumetric Analysis for Second year Chemistry and Mineralogy, and Third year Natural Science students; the preparation and study of selected organic compounds for Third year Chemistry and Mineralogy students; and the investigation of the laws of chemical change, the properties of chemical compounds, and a selected research for Fourth year Chemistry and Mineralogy students.

The lectures and practical work in Chemistry will be given in the School of Practical Science pending the completion of the Chemical Building now in course of erection. Students working in the laboratories are provided with the necessary apparatus on making a deposit at the 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.

Text-books and works of reference: Elements of Chemistry, W. A. Miller, Parts II and III; Richter, Organic Chemistry; Treatise on Chemistry, Roscoe and Schorlemmer, 3 vols. Inorganic, 5 vols. Organic; Qualitative and Quantitative Analysis, Fresenius, 2 vols.; Qualitative Analysis, Prescott and Johnston; Meyer, Modern Theories of Chemistry, trans. Bedson & Williams; Ostwald, Lehrbuch d. allg. Chemie, 2nd ed., 3 vols.; Ostwald, Grundriss der allgemeinen Chemie, translated; Beilstein, Organische Chemie, 3 vols.; Thompson, History of Chemistry, 2 vols.; Watt's Dictionary of Chemistry, 4 vols.; Meyer, History of Chemistry, translated; Wurtz, History of Chemical Theory; Wurtz,

Atomic Theory; Van't Hoff, Chemistry in Space, trans., Marsh; Kopp, Geschichte der Chemie, 4 vols.; Meyer and Jacobsen, Organische Chemie, 2 vols.; Nerst Theoretische Chemie, 1 vol.; Van Laar, Thermodynamik in der Chemie, 1 vol.; Gibbs, Equilibrium of Heterogeneous Systems.

Mineralogy and Geology.

The work of this department is conducted both in the form of lectures and in that of practical or laboratory work. The courses are so arranged as to lead from the elementary work of the earlier years to the more advanced study of the various subjects included in the teaching of the department. A general outline of Geology (with the cognate subjects of Palaeontology and Physical Geography, briefly treated) is given in the Second year. No special text-book is enforced, but Parts III and IV of Chapman's "Geology of Canada," and Chapman's "Synopsis of Palaeontology," are recommended for perusal.

The work of the Second year also comprises the subjects, separately treated, of Mineralogy and Crystallography, with a considerable amount of practical work in the laboratory, including the use of the blowpipe and the practical determination of more common minerals. Chapman's "Mineral Indicator" is recommended for laboratory use.

In the Third year the practical determination of minerals is much extended, and the use of the spectroscope in mineral examinations is made an important part of the laboratory course. Chapman's "Blowpipe Practice" and "Mineral Tables" are used in this work. The lecture work of the year comprises the Economic Minerals of Canada, and a course of about twenty lectures on the Palaeontology of the Invertebrata, in which the characteristic types of Canadian occurrence are especially considered.

In the Fourth year lectures are given on the following subjects: (1) Systematic Mineralogy; (2) Mathematical Crystallography; (3) Palaeontology of the Vertebrata (about twenty-five lectures); (4) Geology of Canada; and (5) Mining Geology—the latter subject including the detailed study of mineral veins and economic deposits generally, with the methods of examining and reporting upon mineral lands. The practical work of the year comprises the assaying of ores of gold, silver, copper, nickel, etc., and the examination of coals, fire-clays and other economic substances.

Biology.

The lectures and practical instruction in this subject are given in the University Biological Building.

The following arrangements will be in force for 1894-95:—

1. A course of elementary lectures on Biology will be given three days a week to prepare candidates for the University examination of the First year. For reference: Jeffrey Parker, Biology; High School Zoology; Francis Darwin, Botany.

2. A course of lessons involving 100 hours' instruction given in connection with the above course of lectures for students entering the Honor department of Natural Sciences. A laboratory supply fee of \$2 will be charged to

members of the practical class for the use of microscope and material for study, but each member will be required to provide himself with a case of instruments and an engraver's lens, both of approved pattern.

3. In addition to attending the course of lectures specified in sec. 1, candidates for Second year Honor examinations will attend special courses on the Zoology of the Vertebrata 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 devoted to the study of typical forms of plants and animals, such as are treated of in Huxley and Martin's "Elementary Practical Biology," new edition, and Bower's Practical Botany. There will also be opportunities for the study of the Canadian Vertebrate fauna (Text-book, Jordan's "American Vertebrates"), but the student is expected to have familiarized himself with the Canadian flora during the preceding long vacation. For reference: Spotton's "Canadian Flora," or Gray's "Manual"; Vines' Text-book of Botany, 2 vols.; Francis Darwin, Elementary Botany; Van Tieghem's *Traité de Botanique*, 2nd ed., revised.

5. Honor students of the Third year will study the Zoology of the Invertebrata 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. Books of reference: Goebel's *Outlines of the Classification of Plants*; Vines' *Lectures on the Physiology of Plants*; Vines' Text-book of Botany; A. B. Frank, *Lehrbuch der Botanik*; Van Tieghem, *Traité de Botanique*, 2nd ed., revised; Bower, *Practical Botany*; Claus's *Zoology*, translated by Sedgwick; Lang, *Vergleichende Anatomie*.

6. The practical course for Third year students will be devoted to the study of typical forms of Cryptogamic plants and Invertebrate animals.

7. Wiedersheim-Parker's "Elements of Comparative Anatomy of the Vertebrata," 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's *Zootomy*; Foster and Balfour's *Embryology*; Bunge's *Physiologische Chemie*.

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 in advance to the Registrar laboratory supply fees.

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 in the sub-department of History and Geography.

The 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 Fund	60 00	Four years.. \$120 00	180 00
				\$230 00
(2)	"	55 00	" .. 120 00	175 00
(3)	"	50 00	" .. 120 00	170 00
(4)	"	45 00	" .. 120 00	165 00
(5)	"	40 00	Three years. 90 00	130 00
(6)	"	35 00	" .. 90 00	125 00
(7)	"	30 00	" .. 90 00	120 00
(8)	{ " (Name, West Durham.)	25 00	25 00

Candidates must obtain first-class honors in at least one department, and at the same examination pass in the other subjects for Junior Matriculation.

The scholarship (1a) is 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, as follows:—

	SOURCE OF MONEY.		FREE TUITION.		TOTAL VALUE.
CLASSICS AND MATHEMATICS, two	(1)	The Fund. \$60 00	Four years.	\$120 00	\$180 00
	(2)	" " 40 00	Three years.	90 00	130 00
CLASSICS AND MODERNS, four ...	(1)	" " 60 00	Four years.	120 00	180 00
	(2)	" " 55 00	" "	120 00	175 00
MATHEMATICS AND MODERNS, two	(3)	" " 40 00	Three years.	90 00	130 00
	(4)	" " 35 00	" "	90 00	125 00
MATHEMATICS AND MODERNS, two	(1)	" " 60 00	Four years.	120 00	180 00
	(2)	" " 40 00	Three years.	90 00	130 00
MATHEMATICS AND SCIENCE, two	(1)	" " 60 00	Four years.	120 00	180 00
	(2)	" " 40 00	Three years.	90 00	130 00
MODERNS AND SCIENCE, two	(1)	" " 60 00	Four years.	120 00	180 00
	(2)	" " 40 00	Three years.	90 00	130 00

Candidates must obtain at least first-class honors in one of the specified departments and second-class in the other of them, and at the same examination pass in the other subjects for Matriculation.

III.

There are, including the Mary Mulock Scholarships, eight Junior Matriculation scholarships for proficiency in one department, as follows:—

	SOURCE OF MONEY.		FREE TUITION.		TOTAL VALUE.
CLASSICS, two	(1)	Mary Mulock. (Name, Mary Mulock.) \$60 00	Three years.	\$90 00	\$150 00
	(2)	Mary Mulock. (Name, Mary Mulock.) 60 00	Two years..	60 00	120 00
MATHEMATICS, two.	(1)	The Fund..... 60 00	Three years.	90 00	150 00
	(2)	" " 30 00	" "	90 00	120 00
MODERNS, two	(1)	" " 60 00	" "	90 00	150 00
	(2)	" " 30 00	" "	90 00	120 00
SCIENCE, two.....	(1)	" " 60 00	" "	90 00	150 00
	(2)	" " 30 00	" "	90 00	120 00

Candidates must obtain first-class honors in their department, and at the same examination pass in the other subjects for Matriculation.

GENERAL REGULATIONS.

In awarding the Junior Matriculation Scholarships the marks are assigned in the following proportions :—

CLASSICS	{ Latin	300	600
	{ Greek	300	
MATHEMATICS			600
MODERN LANGUAGES	{ English	200	600
	{ French	200	
	{ German	200	
SCIENCE	{ Chemistry	200	600
	{ Physics	200	
	{ Biology (Botany, Zoology) ..	200	
HISTORY AND GEOGRAPHY			100

The total value of the marks allowed for Pass work in a department shall be one-third of the total value of the marks for both Pass and Honors.

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.

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 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 undistributed 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.

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 :—

CLASSICS.

THE MOSS CLASSICAL SCHOLARSHIP, of the value of \$120, founded by subscription in honor of the late Hon. Chief Justice Moss.

MATHEMATICS AND PHYSICS.

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

Two scholarships in Physics of the value of \$100 and \$45 respectively, the gift of the Local Committee for the Toronto meeting of the American Association for the Advancement of Science. In awarding these scholarships, the theoretical and practical work in the department will be estimated in the proportion of three to one.

CHEMISTRY AND NATURAL SCIENCE.

THE DANIEL WILSON SCHOLARSHIPS, two of the value of \$60 each, the gift of a friend. In awarding the Daniel Wilson scholarships, the theoretical and practical work in the several subjects will be estimated as follows: In Chemistry, in the proportion of two to one; in Biology, in the proportion of one to one; in Mineralogy and Geology, in the proportion of two to one.

POLITICAL SCIENCE.

THE BLAKE SCHOLARSHIPS, two of the value of \$75 each, and two of the value of \$50 each, the gift of the Hon. Edward Blake. These scholarships are open for competition alike to students in Arts in the Honor department of Political Science, and to undergraduates in the Faculty of Law, taking the same examinations.

THE BANKERS' SCHOLARSHIP in Political Science, of the value of \$70, the gift of 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 years and Honor departments to which the above-named scholarships have been assigned are as follows:—

IN THE FIRST YEAR.

One in Classics (The Moss Scholarship), of	\$120
The Bankers' Scholarship of	70

IN THE SECOND YEAR.

The Blake Scholarships in Political Science and Law, one of	\$75
“ “ “ “ “ one of	50
One in Mathematics (The William Mulock Scholarship), of	60

IN THE THIRD YEAR.

The Blake Scholarships in Political Science and Law, one of.....	\$75
“ “ “ “ “ one of.....	50
Two in Physics, one of.....	100
“ one of.....	45
One in Chemistry and Mineralogy (The Daniel Wilson Scholarship), of..	60
One in Natural Sciences (The Daniel Wilson Scholarship), of.....	60

All undergraduate scholars must sign a declaration of intention to proceed to a Degree in this University, and must attend lectures in some affiliated College for the academic year immediately following such examination; but the Senate may, upon satisfactory reasons being shown, permit such scholar to postpone attendance upon lectures for a year, in which case the payment of the amount 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, or in any of the departments or sub-departments to which the scholarship is attached.

C. Prizes in Books.

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.

NATURAL SCIENCES.

The McMurrich Medal (Silver), the gift of W. B. McMurrich, M.A., awarded on the recommendation of the Natural Science Association.

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

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.

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 MACDONALD SCHOLARSHIPS in Philosophy, one of the value of \$50 in the Second year, and one of the value of \$60 in the Third year, the gift of the late Hon. John Macdonald.

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 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 the German Language, in the Third year, of the value of \$60, the gift of Julius Rossin, B.A., Hamburg, Germany.

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 PRIZE, the gift of the President, of the annual value of \$15, for French Composition, is open for competition among matriculated students of all years in attendance on lectures.

THE CLASSICAL PRIZES, the gift of Professors Hutton and Dale, each of the annual value of \$10, are open for competition among students of the Department of Classics of the Second and Third years.

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), the gift of the late W. H. C. Kerr, M.A.,

MODERN LANGUAGES (in the Third year).

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

ORIENTAL LANGUAGES (in the Fourth year).

The Lyle Medal (Silver), the gift of the Central Presbyterian Church, Hamilton.

FELLOWSHIPS.

I. University.

Fellowships in the subjects named below, of the annual value of \$500 each, are awarded annually. The selection is made immediately after the publication of the results of the University Examinations in May, 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 the department, to pursue some special line of study therein, and to devote his entire time during the Session to the work of the 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 Fellowships in the following departments are assigned to the Faculty of the University: Physics, Mathematics, Chemistry, Biology, Mineralogy and Geology, Italian and Spanish, Political Economy.

II. University College.

Under like conditions with the above, Fellowships of the same value are offered in University College in the following departments: Latin, French, German.

FACULTY OF MEDICINE.

MEDICAL FACULTY.

The eighth session since the re-establishment of the Medical Faculty of the University of Toronto will commence on October 2nd, 1894. The opening lecture will be delivered by Professor R. A. Reeve in the Biological Department at 8 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 Universities, and it aims at giving the student such a training in the sciences as is now exacted of all students 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 and Physical laboratories and lecture-rooms of the University and of the School of Practical Science, and in the Anatomical Department in the west wing of the Biological Building.

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 specially emphasized the instruction given at the bedside. As a result of this endeavor, more than two-thirds of the instruction in the Third and Fourth years is given at the bedside and in the Pathological and Clinical laboratories. As in surgery and in medicine, so in pathology, obstetrics and gynaecology is the instruction thoroughly practical.

Clinical instruction will, as heretofore, be given in the Toronto General Hospital, the Burnside Lying-in Hospital, the Victoria Hospital for Sick Children, St Michael's Hospital and other medical charities of Toronto. The facilities for clinical instruction have been immensely improved, and the student has the fullest opportunities for making a thorough examination of all cases of disease which are found in the wards and out-patient rooms of the hospitals. The students are arranged in 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 all 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 the methods of illustrating anatomy used during the last session, 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.

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 on pp. 52-56 above 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.

For all information not covered by this announcement, the intending student should apply to Professor A. Primrose, Biological Department, University of Toronto.

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The Faculty.

Professores Emeriti.

JAMES THORBURN, M.D. W. W. OGDEN, M.D.
 H. H. WRIGHT, M.D. W. H. ELLIS, M.A., M.B.
 M. H. AIKINS, B.A., M.D.

Professors, Lecturers and Demonstrators.

Dean : U. OGDEN, M.D., Tor.
Secretary : A. PRIMROSE, M.B., C.M., Edin.

ANATOMY.

Professor : J. H. RICHARDSON, M.D., Tor.
Associate-Professor and Demonstrator : A. PRIMROSE, M.B., C.M., Edin.
Lecturer : H. WILBERFORCE AIKINS, B.A., M.B., Tor.
Senior Assistant-Demonstrator : F. N. G. STARR, M.B., Tor.
Assistant-Demonstrators :
 W. B. THISTLE, M.B., Tor.
 A. R. GORDON, M.B., Tor.
 F. W. CANE, M.B., Tor.
 F. WINNETT, M.D., Tor.
 B. E. MCKENZIE, B.A., M.D., McGill.

SURGERY.

Professor : W. T. AIKINS, M.D., LL.D., Tor.
Professor of Clinical Surgery : L. MCFARLANE, M.D., Tor.
Professor of 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.

PATHOLOGY.

Professor : JOHN CAVEN, B.A., M.D., Tor.
Demonstrator : JOHN AMYOT, 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. MCPHEDRAN,
 M.B., Tor.
Lecturer in Clinical Medicine : W. P. CAVEN, M.B., Tor.

THE UNIVERSITY OF TORONTO

PHARMACOLOGY AND THERAPEUTICS.

Professor : JAMES M. MACCALLUM, B.A., M.D., Tor.

Lecturer on Materia Medica and Elementary 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.

OPHTHALMOLOGY, OTOLOGY, LARYNGOLOGY AND RHINOLOGY.

Professor of Ophthalmology and Otology : R. A. REEVE, B.A., M.D., Tor.

Clinical Lecturer in Ophthalmology and Otology : G. H. BURNHAM, M.D., Tor., F.R.C.S., Edin.

Clinical Lecturer in Laryngology and Rhinology : G. R. McDONAGH, M.D., Tor.

HYGIENE.

Professor : W. OLDRIGHT, M.A., M.D., Tor.

TOXICOLOGY.

Lecturer : W. H. ELLIS, M.A., M.B., Tor.

MEDICAL JURISPRUDENCE.

Medical Lecturer : BERTRAM SPENCER, M.D., Tor.

Legal 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, B.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.

Lecturer : W. H. ELLIS, M.A., M.B., Tor.

Lecturer : W. L. MILLER, B.A., Tor., Ph.D., Munich.

Lecturer : F. B. ALLAN, B.A.

PHYSICS.

Professor : JAMES LOUDON, M.A., Tor., LL.D.

Lecturer : C. A. CHANT, B.A., Tor.

COURSES OF LECTURES

AND.

METHODS OF INSTRUCTION.

WINTER SESSION, 1894-95.

Chemistry.*Professor:* W. H. PIKE.*Lecturers:* { W. H. ELLIS,
W. L. MILLER,
F. B. ALLAN.

Pending the completion of the new Chemical Laboratory, all lectures and practical work will be given in the School of Practical Science.

The students of the First year attend a course of lectures, delivered three times a week, on inorganic chemistry. This course embraces an elementary study of the elements and their chemical compounds, based on Mendelejeff's classification. The instruction given in practical chemistry includes a systematic course of laboratory work in 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 a more elementary study of the "aromatic" series.

The laboratory work of the Second year consists of the practical examination of the more important and commonly occurring organic substances of interest in medicine, and of a series of lectures and demonstrations on the applications of chemistry to toxicology, sanitary science, and clinical medicine.

Physics.

Professor : J. LONDON.

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; and will be taken by students of chemistry, of natural sciences, and of medicine.

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 especial attention will be given to those principles which find most frequent applications in physiology and other branches of 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 vegetal 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, which will cover such a wide 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. 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 practi-

cal 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 Building. It is hoped that such progress will have been made with the furnishing of the Museum, and with the arrangement of the Natural History Collections, that it may be opened to the public early in the session 1894-95, as well as to the students. The Museum 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 to be furnished with a printed label indicating the most salient points which it is designed to treat, but it is anticipated that it 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 approached from the west facade of the Biological Building, 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 subdivided into four rooms, seventy-five by twenty-five feet in size, amply lighted by large windows on the north and south sides. Three of these 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, while the smaller cases between the windows contain 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 south first floor room contains illustrative specimens of all the remaining branches of the animal kingdom, the Arthropods and Molluscs being exhibited in the wall cases and the table cases standing in the alcoves of these, while the protozoa, sponges, coelenterates, echinoderms and worms are accommodated in the cases between the windows.

Although the Natural History Museum suffered considerable losses on the occasion of the fire of 1890, these fortunately did not affect the large collection of models and specimens most useful from an 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 : J. H. RICHARDSON.

Associate-Professor and Demonstrator : A. PRIMROSE.

Lecturer : H. W. AIKINS.

Senior Assistant-Demonstrator : F. N. G. STARR.

Assistant-Demonstrators : W. B. THISTLE, A. R. GORDON, F. W. CANE,
F. WINNETT, B. E. MCKENZIE.

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 special sense organs.

A course of lectures will be given at the University Medical building, on 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. to 1 p.m. on Saturday. Students will be required to conduct their work in a systematic fashion, 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 for 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 only to such students 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 fashion 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 purposes 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.

Arrangements are such that a student may obtain bones from the osteological store-room, which he may take home for a limited period, if desired.

A pamphlet will be issued containing directions for the guidance of students of the class of 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.

Lecturer on Materia Medica: C. F. HEEBNER.

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 modes of administration.
2. Therapeutic terms and definitions, with such explanations as 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 solving 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 indicating 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 has been thoroughly revised during the past year, and is now 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.

The course in therapeutics includes the following, among other special topics: 1. The physiological action of drugs (or pharmacology), therapeutical uses and modes of administering remedies; 2. Food and drink, considered generally and in reference to disease; 3. Heat and cold; 4. Electricity; 5. Massage.

Medicine.

Professor of Medicine and Clinical Medicine: J. E. GRAHAM.

Associate-Professor of Medicine and Clinical Medicine: A. MCPHEDRAN.

Lecturer in Clinical Medicine: W. P. CAVEN.

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-colored 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 Victoria Hospital for Sick Children affords a varied field in children's diseases.

A new Hospital for contagious diseases has been erected by the city of Toronto, to which access will be given to students under the authority of the Board of Health for the study of the various fevers.

While as great a variety of cases as possible will be presented for examination, more importance will be attached to the thoroughness in the study of cases than to the number observed.

In addition to the out-patient clinics and regular weekly lectures, all 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, haemometer, haemocytometer, 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 criticized 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.

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, and Strümpell; Graham Brown's Medical Diagnosis, and Vierordt.

For reference: Fagge's Principles and Practice of Medicine (latest edition), and Hirt on Diseases of the Nervous System.

15

Surgery.

Professor: W. T. AIKINS.

Professor of Clinical Surgery: L. McFARLANE.

Professor of Clinical Surgery: I. H. CAMERON.

Associate-Professor of Surgery and Clinical Surgery: G. A. PETERS.

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, tumors, etc.; (b) The processes of repair and regeneration taking place in tissues, which have been the subjects of disease, 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 fungi, 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, tubercular 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, and also of out-door and in-door patients in the Victoria Hospital for Sick Children. In the latter 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: J. CAVEN.**Demonstrator: J. AMYOT.*

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 the 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.

One student from each of the Third and Fourth years will be appointed as Assistant to the Demonstrator of Pathology, and these will receive their tuition in that department free of charge.

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.

Toxicology.

Lecturer: 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 living body.

ANTIDOTES TO POISONS.

THE DETECTION OF POISONS.

Identification of poisons in the pure state. Separation from organic matter.

Post-mortem examinations for poison.

Medical Jurisprudence.

Medical Lecturer: 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.

The identity of the person—living and dead.

Death; its causes, signs, and period of occurrence. Ap-
parent 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, concealment of pregnancy, criminal abortion, and infanticide.

Live birth, legitimacy, congenital defects, and feigned diseases.

Suicide.

Nuisances; arson; forgery.

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:—

1. Definitions and errors arising therefrom in the study of insanity.

2. The brain and its exceptional construction and functions.
3. The brain as an organ of the mind.
4. Sanity and insanity in their relation to one another.
5. Different forms of insanity, illustrated by patients.
6. The moral treatment of the insane.
7. The medical treatment of the insane in the various forms of their disease.

Gynæcology and Obstetrics.

Professor of Gynæcology: U. OGDEN.

Professor of Obstetrics: A. H. WRIGHT.

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, leucorrhæa, chlorosis, parametritis and perimetritis, 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 Professor in his clinic 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 of pregnancy; physiology, mechan-

ism, 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 in the two courses.

Ophthalmology, Otology, Laryngology and Rhinology.

Professor of Ophthalmology and Otology: R. A. REEVE.

Clinical Lecturer in Ophthalmology and Otology: G. H. BURNHAM.

Clinical Lecturer in 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 at 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. H. H. WRIGHT, M.D. |
| “ W. T. AIKINS, M.D. | “ J. THORBURN, M.D. |

Physicians.

- | | |
|--------------------------|--------------------------|
| PROF. J. E. GRAHAM, M.D. | PROF. A. MCPHEDRAN, M.B. |
|--------------------------|--------------------------|

Surgeons.

- | | |
|--------------------------|---------------------------|
| PROF. L. MCFARLANE, M.D. | PROF. I. H. CAMERON, M.B. |
|--------------------------|---------------------------|

Out-door and Assistant.

Surgeons.

- | |
|-------------------------|
| PROF. A. PRIMROSE, M.B. |
| “ G. A. PETERS, M.B. |

Physicians.

- | |
|-----------------------------|
| PROF. J. M. MACCALLUM, M.D. |
| W. P. CAVEN, M.B. |
| BERTRAM SPENCER, M.D. |

Gynæcology and Obstetrics.

- | | |
|----------------------|--------------------------|
| PROF. U. OGDEN, M.D. | PROF. A. H. WRIGHT, M.D. |
|----------------------|--------------------------|

Pathology.

- PROF. JOHN CAVEN, M.D.

Ophthalmology and Otology.

- | | |
|-------------------------|---------------------|
| PROF. R. A. REEVE, M.D. | G. H. BURNHAM, M.D. |
|-------------------------|---------------------|

Rhinology and Laryngology.

- G. R. McDONAGH, M.D.

The hospital has now 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 large numbers of patients daily received treatment in the out-door department.

All the patients in the hospital are, as a rule, suffering from acute medical and surgical diseases; 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' Hill.

Clinical Teaching.

Clinical instruction is given to the various departments of the hospital on all classes of patients.

I. *Theatre Lectures* :—Clinical Lectures are given daily, over 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.

(c) *Obstetrics* :—In the Burnside Lying-in-Hospital, in which there are over 150 births a year, final students are permitted to witness and assist in the conduct of *labors*. 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 Saturday 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 gynæcology.

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.

(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 gynæcology, ophthalmology, and otology.

Resident Assistants in the Hospital.

Four resident assistants are appointed annually from the graduates in medicine of the University, and hold their positions for the year. They will have full opportunities for acquiring experience in the general and special wards of the hospital, but during the sessions they will have charge under the physicians and surgeons in the general wards.

Victoria Hospital for Sick Children.

The following members of the Faculty are members of the Hospital staff:—

Consulting.

PROF. U. OGDEN, M.D.

PROF. W. T. AIKINS, M.D.

PROF. H. H. WRIGHT, M.D.

PROF. J. E. GRAHAM, M.D.

PROF. J. THORBURN, M.D.

Physicians.

PROF. A. MCPHEDRAN, M.B.

PROF. J. M. MACCALLUM, M.D.

W. B. THISTLE, M.D.

W. P. CAVEN, M.D.

Surgeons.

PROF. I. H. CAMERON, M.B.

PROF. G. A. PETERS, M.B.

PROF. A. PRIMROSE, M.B.

B. E. MCKENZIE, M.B.

Ophthalmology and Otology.

PROF. R. A. REEVE, M.D.

Rhinology and Laryngology.

G. R. McDONAGH, M.D.

Pathology.

PROF. J. CAVEN, M.D.

This large hospital, with 160 beds, is entirely devoted to diseases of children. In the clinics, cases exemplifying the various diseases of infancy and childhood will be exhibited. Abundant opportunities for a personal examination of all cases will be afforded.

St. Michael's Hospital.

The following members of the Faculty are members of the staff of St. Michael's Hospital :—

PROF. I. H. CAMERON, M.B.
 PROF. J. E. GRAHAM, M.D.
 PROF. A. MCPHEDRAN, M.B.
 PROF. W. OLDRIGHT, M.B.
 J. AMYOT, M.B.
 PROF. JOHN CAVEN, M.D.

Cases of interest in this recently opened Hospital will add to the advantages of students. It contains 80 beds, and annually more than 600 patients are admitted.

Text-Books.

- Anatomy*—Gray, \$6; Quain; Morris; Cunningham's Practical Anatomy, \$6; Ellis's Demonstrations of Anatomy, edited by Thane.
Physiology—Yeo, \$3; Foster, English edition (4 vols.), \$9, American edition (1 vol.), \$4.50; McKendrick, \$4 per vol.; Landois, translated by Stirling, \$6.50; Waller, \$4.50.
Histology—Klein, \$1.50.
Chemistry—Miller, \$1; Fownes, \$2.75; Wurtz, \$2.50.
Practical Chemistry—Jones, 75 cents.
Pharmacology and Therapeutics—Lauder Brunton, \$5.50; Bruce, \$1.50; Farquharson, \$2.25; Synopsis of B. P. Preparations, Heebner.
Surgery—Wyeth, \$7; Ashurst, \$6; Erichsen (2 vols.), \$9.
Medicine—Bristowe, \$5; Fagge (2 vols.), \$8; Strümpell, \$6; Osler, \$5.50.
Midwifery—Galabin, \$3; Playfair, \$4; Lusk, \$5.
Medical Jurisprudence—Husband, \$3.
Pathology—Ziegler, \$5.50; Payne, \$3.50; Green, \$2.50.
Clinical Medicine—Graham Brown's Manual of Medical Diagnosis, \$2.25; Finlayson's Clinical Manual, \$2.20; Vierordt.
Gynecology—Galabin, \$1.75; Thomas & Mundé; Hart and Barbour, \$7.
Hygiene—Manual of Hygiene for Normal Schools and Colleges, 50 cents.
Books of Reference—Louis C. Parkes; Dechaumont's Parkes; Wilson Richardson's "Field of Disease."
Dermatology—Crocker, \$5.50; Robinson, \$5; Jackson, \$2.25.
Biology—Huxley's Elementary Biology, \$2.65; Parker's Elementary Biology, \$2.75.
Physics—Ganot's Physics, \$5.
Ophthalmology—Nettleship, \$2.
Otology—McNaughton Jones, \$2.50; Field, \$3.

Fees.

Registration (payable once only).....	\$ 5 00
The tuition fees for the first year amount to	75 00
“ “ second year amount to	75 00
“ “ third year amount to	85 00
“ “ fourth year amount to	85 00
Supply fee for use of Microscope and Material in first year	1 50
“ “ “ “ second year..	2 75

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 Examination (each)	10 00
For Examination in Practical Chemistry	0 50
For admission <i>ad eundem statum</i>	6 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

Tickets of admission to any of the courses of lectures or practical instruction shall be issued by the Secretary of the Faculty on payment of the fees for such courses, and the attendance of the students at such courses must be certified on the backs of such tickets by the professors, lecturers, demonstrators or instructors, before such tickets shall be received by the Registrar as entitling the possessors to proceed to examination.

All fees shall be payable on or before the first of November of each year, and thereupon the Secretary shall enroll as students of the Faculty all who have paid the prescribed fees.

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 for students in medicine.

Matriculated students or graduates in Arts in the department of Natural Sciences who are taking or have taken the Honor course in any subject in the Faculty of Arts which is or shall be held equivalent by the Senate to any of the subjects prescribed in the medical curriculum, may be permitted to take, after registration in the Medical Faculty, Practical Anatomy, on the payment of a fee of \$20; Anatomy, a course of lectures, \$15; 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 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 honors in any examination in the Faculty of Arts which is or shall be held equivalent by the Senate 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 shall only be given on the presentation of such tickets.

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 under-

graduate 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 other grave reasons.

Medals.

A gold medal and three silver medals are offered annually for competition among those students of the Medical Faculty who have succeeded in obtaining the degree of M.B., with Honors, and will be awarded on the recommendation of the Examiners.

Time Table, Session 1894-95.
First Year.

	MON.	TUE.	WED.	THU.	FRI.	SAT.
Elementary Biology and Physiology	9		9		9	
Practical Biology	8.30-11	9-11	8.30-11	9-11	11	
Practical Chemistry	10		10		10	
Anatomy	12	1	1.30	1	2	
Physica	2		12	2	2	
Bacteria Medica	3-6	1-6	1-6	3-6	3-6	
Practical Anatomy	12		12		12	
Physiological Lectures and Demonstrations						

(Monday lecture during Mich. Term only. Mich. Term Easter Term.)

Second Year.

	MON.	TUE.	WED.	THU.	FRI.	SAT.
Medical Chemistry	9-11		9-11		9-11	
Practical Histology	9-11		9-11		9-11	
Embryology and Histology	11	9-10	11	10-12	11	
Physiology	2	12		2	2	
Chemistry	3-6		9	9	9	
Materia Medica			1-6	3-6	3-6	
Anatomy						
Practical Anatomy						

(Tuesday lecture during Easter Term only.)

Third Year.

	MON.	TUE.	WED.	THU.	FRI.	SAT.
Surgery	8.30	8.30	8.30	8.30	8.30	8.30-10.30
Medicine	9.30	9.30	9.30	9.30	9.30	
Obstetrics	10.30		10.30	10.30	10.30	9.30
Pathology						
Therapeutics						
Pathological Demonstrations						
Medical Jurisprudence	3.30			3.30		10.30-12.30

(Saturday lecture Mich'mas Term only. Saturday lecture Easter Term only.)

Fourth Year

	MON.	TUE.	WED.	THU.	FRI.	SAT.
Surgery	8.30	8.30	8.30	8.30	8.30	8.30
Medicine	9.30	9.30	9.30	9.30	9.30	9.30
Gynecology		10.30	10.30	10.30	10.30	10.30
Hygiene		11.30	11.30	11.30	11.30	11.30
Topographical Anatomy		3.30	3.30	3.30	3.30	3.30
Pathology		4.30	4.30	4.30	4.30	4.30
Pathological Demonstrations						
Obstetrics						
Toxicology						
Ophthalmology and Otolaryngology		5.30	5.30	5.30	5.30	5.30

Saturday lecture Michlmas term only.

Toronto General Hospital

	MON.	TUE.	WED.	THU.	FRI.	SAT.
Ward Clinics (Third Year)	11.30	11.30	11.30	11.30	11.30	11.30
Clinical Laboratory	1-2.30	1-2.30	1-2.30	1-2.30	1-2.30	1-2.30
Gynecological Clinic	2	2	2	2	2	2
Ward Clinics (Fourth Year)	2.30	2.30	2.30	2.30	2.30	2.30
Operations		3	3	3	3	3
Eye and Ear Clinic		3	3	3	3	3
Throat and Nose Clinic		3	3	3	3	3

Victoria Hospital for Sick Children

	MON.	TUE.	WED.	THU.	FRI.	SAT.
Ward Clinics	1.15	1.15	1.15	1.15	1.15	1.15

St. Michael's Hospital

Ward Clinics will be arranged during the Session.

SUMMER SESSION, 1895.

The Summer Session of the Medical Faculty will commence on Monday, April 22nd, and continue till June 29th.

Clinical Instruction.

An important feature of the work during the summer session is the study of disease at the bedside. A large number of clinical instructors are engaged in this work, and the arrangements are such that each class will consist of a limited number of students. The effect of this is to secure the best possible conditions for carrying on clinical instruction profitably. Each student will be required to do clinical work, as dresser and clerk, and he will have the opportunity every day of examining and observing the special features presented in a great variety of diseases of both surgical and medical types. The instruction will be carried on chiefly in the Toronto General Hospital, and in the Victoria Hospital for Sick Children. In addition to the clinical classes conducted in the hospital wards, there will be available also the daily out-door clinics, including, once a week, a special class for the study of diseases of the skin. On Tuesday afternoons a clinical lecture will be delivered in the Theatre, whilst Wednesday afternoons will be reserved for operations.

Lectures and Demonstrations.

A course of Lectures, largely demonstrative and practical in character, will be given in the Faculty's Building on the corner of Gerrard and Sackville Streets.

The principal operations in Obstetrics will be performed on the manikin by the Students. The demonstrations in Minor Surgery will include practical work in antiseptic methods, bandaging, surgical dressings, surgical appliances, etc. The Lectures on Dietetics will include a description of methods of

feeding, suitable foods, and the general management of the sick. The course on Physical Diagnosis will consist of a series of practical demonstrations of the methods of diagnosing disease by means of physical signs. The course of Lectures on Mental Diseases will include a description of the various forms of Insanity and their treatment. The course in Surgical Anatomy will consist of a series of practical demonstrations.

Fees.

Full Course	\$30 00
Second Course	15 00
*Special fee for Clinical Laboratory	2 00

to be paid on or before May 4th.

The fees may be paid between 10 and 11 a.m., April 22nd to 28th, and May 1st to 4th, inclusive, at the Gerrard Street Building.

* A Special course of instruction will be carried on in the Clinical Laboratory.

Staff.

CLINICAL MEDICINE	J. E. GRAHAM, M.D. A. MCPHEDRAN, M.B. J. M. MACCALLUM, M.D. W. P. CAVEN, M.B. W. B. THISTLE, M.D.
CLINICAL SURGERY	L. MCFARLANE, M.D. I. H. CAMERON, M.B. G. A. PETERS, M.B. A. PRIMROSE, M.B. B. SPENCER, M.D. B. E. MCKENZIE, M.D.
OPERATIVE OBSTETRICS AND GYNECOLOGY.....	A. H. WRIGHT, M.B.
CLINICAL OPHTHALMOLOGY AND OTOLGY.....	R. A. REEVE, M.D. G. H. BURNHAM, M.D.
LARYNGOLOGY AND RHINOLOGY.....	G. R. McDONAGH, M.D.
MINOR SURGERY AND SURGICAL APPLIANCES...	H. W. AIKINS, M.B.
PHYSICAL DIAGNOSIS	F. N. G. STARR, M.B.
MENTAL DISEASES	F. W. CANE, M.B.
DIETETICS.....	A. R. GORDON, M.B.
INSTRUCTION IN CLINICAL LABORATORY	J. AMYOT, M.B.
SURGICAL ANATOMY	F. WINNETT, M.D.
BACTERIOLOGY	J. CAVEN, M.D.

Lectures and Demonstrations

In Gerrard Street Building.

	M.	Tu.	W	Th.	F.	S.	
MINOR SURGERY		8.30			8.30		DR. H. W. AIKINS.
OPERATIVE OBSTETRICS.					9.30		DR. A. H. WRIGHT.
PHYSICAL DIAGNOSIS...			9.30				DR. F. N. G. STARR.
DIETETICS	9.30			9.30			DR. A. R. GORDON.
MENTAL DISEASES		9.30			9.30		DR. F. W. CANE.
SURGICAL ANATOMY ...	8.30			8.30			DR. F. WINNETT.

Clinical Lectures and Demonstrations
In Toronto General Hospital.

LECTURE.	M.	Tu.	W.	Th.	F.	S.	
DR. GRAHAM.....	{ Clinical Lect..	3.30					1st 5 weeks.
	{ Out-door Skin..	1.30					2nd 5 weeks.
	{ Ward Class....	2.30		2.30			
DR. McFARLANE.....	{ Operations		2.30				
	{ Ward Class....	2.30			2.30		
DR. McPHEDRAN.....	{ Clinical Lect..	3.30					2nd 5 weeks.
	{ Out-door Skin..	1.30					1st 5 weeks.
	{ Ward Class....	2.30		2.30			
DR. CAMERON.....	{ Operations		2.30				
	{ Ward Class....	2.30			2.30		
DR. W. P. CAVEN.....	{ Out-door				1.30		
	{ Ward Class....	2.30		2.30			
DR. THISTLE.....	Ward Class....		2.30	2.30			
DR. J. M. MAC- CALLUM.....	{ Out-door.....	1.30					
	{ Ward Class....				2.30		
DR. STARR.....	Ward Class....		2.30	2.30			
DR. PETERS.....	{ Out-door.....				1.30		
	{ Ward Class....				2.30		
DR. PRIMROSE.....	{ Out-door.....	1.30					
	{ Ward Class....			2.30			
DR. SPENCER.....	{ Out-door.....				1.30		
	{ Ward Class....	2.30	2.30				
DR. A. H. WRIGHT.....	{ Special Classes.	3.30					
	{ Gynaecology and Obstetrics			3.30			
DR. REEVE.....	Out-door.....		3.30				
DR. BURNHAM.....	Out-door.....			3.30			
DR. McDONAGH.....	Out-door.....					3.30	
DR. AMYOT.....	Clinical Laboratory at 1.30 daily.						
In Victoria Hospital for Sick Children.							
DR. MACCALLUM.....	Class.....		11				
DR. PETERS.....	Class.....	11					
DR. PRIMROSE.....	Class.....				11		
DR. THISTLE.....	Class.....					11	
DR. MCKENZIE.....	Class.....		11				11

Public Lectures.

During the session 1894-95 a course of ten public lectures, by members of the Medical Faculty, will be given on the History of Medicine. These lectures, of which a fuller public announcement will be made at the commencement of the session, will be delivered in the Lecture Hall of the University Biological Department at 8 p.m. on alternate Fridays. The topics are so arranged that the series of lectures will give a connected account of the history of Medicine down to the sixteenth century, and it is proposed to deal similarly with the history of the subject for the three remaining centuries in the session 1895-6.

Professor Ramsay Wright will deliver the first lecture.

The lectures will be given in the following order :—

- I. Mythical Medicine and the Worship of *Æsculapius*.
- II. Hippocrates and the Hippocratists.
- III. Asclepiades and the Asclepiadists.
- IV. The Empirics.
- V. The Eclectics.
- VI. Arabian Medicine.
- VII. Monastic Medicine.
- VIII. Scholastic Medicine.
- IX. The Revival of the Study of Human Anatomy.
- X. The Commencement of Modern Medicine with *Paracelsus* (1490-1541 A.D.).

REGULATIONS RELATING
TO THE
EXAMINATIONS AND GRANTING
OF
DEGREES IN MEDICINE.

Degree of M.B.

The Degree of M. B. is given to candidates who have matriculated and who have attended during four winter sessions of at least six months each and one summer session the courses 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 Matriculation is five dollars, 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.

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. (For list of equivalent examinations, see page 50.)

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 examinations 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 course of at least 50 lectures.

“ Physiology, a 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 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 “

“ Gynæcology, 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 labors.
 3. Of proficiency in vaccination.
- (NOTE.—In respect to 2 and 3, certificates will be received from any registered practitioner.)
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 attended one summer session.
 7. Of having attended twelve autopsies.

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. Gynaecology.
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 Honor list.

Additional papers on all Pass subjects of an examination will be set for the Honor 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. Gynaecology.
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, in the department of Natural Sciences, 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 Inorganic
Chemistry, and Physics of the Honor course } equivalent to { Chemistry and Physics.
in Natural Sciences.
3. Honor course and examination in Third Year } equivalent to { course and examination in Second Year Chemistry
Chemistry.
4. Honor course and examination in Fourth Year } equivalent to { course and examination in Second Year Physiology
Biology.
5. Attendance at the Honor course in the Fourth Year Physiological Chemistry, in the Faculty of Arts, is equivalent
to attendance at the course of Chemistry applied to Physiology of the Second Year in the Faculty of Medicine.

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.

2. Having passed an examination in Clinical Medicine and Surgery,* together with an examination in the History of Medicine.

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 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 distinguished himself most during his undergraduate course in the subjects of Anatomy, Biology, Physiology and Pathology.

* The examination in these subjects is additional to that required for the degree of M.B.

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	<u>1200</u>

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 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.

YR.	YR.	YR.
58 Oille, L. S., <i>g.</i>	70 Wagner, W. J., <i>s.</i>	81 Duncan, J. H., <i>g.</i>
Alkins, M. H., <i>s.</i>	Burt, W., <i>s.</i>	82 Wallace, R. H., <i>g.</i>
Millar, T., <i>s.</i>	Williams, A. D., <i>s.</i>	Duncan, J. T., <i>s.</i>
59 Haruhart, C. E., <i>g.</i>	71 Forrest, W., <i>g.</i>	83 Robinson, W. J., <i>g.</i>
King, J., <i>s.</i>	Moore, C. Y., <i>s.</i>	Dolsen, F. J., <i>g.</i>
Francis, W. F., <i>s.</i>	Henning, N. P., <i>s.</i>	84 Clerke, J. W., <i>g.</i>
60 B-ecom, J., <i>g.</i>	Delamater, R. H., <i>s.</i>	85 Howell, J. H., <i>g.</i>
Playter, E. <i>s.</i>	72 Zimmerman, R., <i>g.</i>	Carr, L., <i>s.</i>
Tisdell, F. B., <i>s.</i>	Crozier, J. B., <i>s.</i>	Saunders, M. R., <i>s.</i>
Morton, E. D., <i>s.</i>	73 Close, J. A., <i>g.</i>	Hoople, H. N., <i>g.</i>
Ogden, W. W., <i>s.</i>	Beeman, M. I., <i>s.</i>	86 Peters, G. A., <i>g.</i>
Martyu, D. H., <i>s.</i>	Wright, A. H., <i>s.</i>	Noecker, C. T., <i>g.</i>
61 Hudson, <i>g.</i>	Hagel, R. D., <i>s.</i>	Johnston, D. R., <i>s.</i>
Killett, J., <i>s.</i>	74 Fraser, D. B., <i>g.</i>	87 Ego, A., <i>g.</i>
62 Bolster, J., <i>g.</i>	Brown, O. G., <i>s.</i>	88 Fére, G. A., <i>g.</i>
DeGrassat, G. P., <i>g.</i>	Farewell, A., <i>s.</i>	Galloway, J., <i>s.</i>
63 Ramsay, W. F., <i>g.</i>	Cameron, I. H., <i>s.</i>	89 Collins, J. H., <i>g.</i>
64 McLaughlin, J. W., <i>g.</i>	Shaw, G., <i>s.</i>	Chambers, G., <i>s.</i>
65 Burnham, E. L., <i>g.</i>	Fraser, D., <i>s.</i>	Godfrey, F. E., <i>s.</i>
McCarthy, J. L. G., <i>s.</i>	75 Britton, W., <i>g.</i>	90 Barker, L. F., <i>g.</i>
Ki'chen, E. E., <i>s.</i>	White, J., <i>s.</i>	Cullen, T. S., <i>s.</i>
66 Mickle, W. J., <i>g.</i>	Bennett, J. H., <i>s.</i>	Philp, W. H., <i>s.</i>
McCullough, J. <i>s.</i>	Eakins, J. E., <i>s.</i>	McFarlane, M. T., <i>s.</i>
Wadsworth, J. J., <i>s.</i>	76 McPhedran, A., <i>g.</i>	McIllwray, C. F., <i>s.</i>
67 Sparks, T., <i>s.</i>	Lackner, H. S., <i>g.</i>	91 Barnhart, W. N., <i>g.</i>
Palmer, R. N., <i>s.</i>	Howerman, A. C., <i>s.</i>	Rollen, P., <i>s.</i>
Harbottle, R., <i>s.</i>	Wilson, W. J., <i>s.</i>	Boyd, G., <i>s.</i>
Eoels, F. R., <i>s.</i>	77 Stuart, W. T., <i>g.</i>	McGorman, G., <i>s.</i>
McFarlane, L., <i>s.</i>	Orr, R. B., <i>s.</i>	92 Bruce, H. A., <i>g.</i>
Newton, J. H., <i>s.</i>	Richards, N. D., <i>s.</i>	Middlebro, T. H., <i>s.</i>
68 Brown, J. P., <i>g.</i>	78 Griffin, H. S., <i>g.</i>	Gowland, R. H., <i>s.</i>
Hunt, R. H., <i>s.</i>	Meek, H., <i>s.</i>	Brown, J. N. E., <i>s.</i>
Howe, T. C., <i>s.</i>	Bonnar, H. A., <i>s.</i>	83 Harvie, J. N., <i>g.</i>
69 Graham, J. E., <i>g.</i>	Kennedy, G. A.,	South, T. E., <i>s.</i>
Humble, C., <i>s.</i>	Gardiner, J. H., <i>s.</i>	Elliott, W., <i>s.</i>
McCollum, J. H., <i>s.</i>	79 Burt, F., <i>g.</i>	Futcher, T. B., <i>g.</i>
Bentley, T. B., <i>s.</i>	Mills, R. F., <i>s.</i>	Harvey, E. E., <i>g.</i>
70 Greenless, A., <i>g.</i>	Chappell, W. F., <i>s.</i>	94 McCollum, W. J., <i>g.</i>
Burgess, T. J. W., <i>s.</i>	80 Cross, W. J., <i>g.</i>	Ratlidge, H. N., <i>s.</i>
Smith, C. M., <i>s.</i>	Bryce, P. H., <i>s.</i>	Craib, W. K., <i>s.</i>
Standish, J., <i>s.</i>	Ferguson, J., <i>s.</i>	Johnston, H. A., <i>s.</i>

Starr Medallists.

67 Palmer, R. N.	78 Close, J. A., <i>s.</i>	78 Griffin, H. S., <i>s.</i>
68 Hunt, R. H.	Hagel, S. D., <i>s.</i>	79 Burt, F., <i>g.</i>
Brown, J. P.	74 Brown, O. C., <i>g.</i>	80 Cross, W. J., <i>g.</i>
Cassidy, J. J.	Farewell, A., <i>s.</i>	Bryce, P. H., <i>g.</i>
69 Graham, J. E.	Campbell, A. J., <i>s.</i>	81 Duncan, J. H., <i>g.</i>
70 Burgess, T. J. W., <i>g.</i>	75 Britton, W., <i>g.</i>	82 Wallace, R. R., <i>g.</i>
Greenless, A., <i>g.</i>	White, J., <i>s.</i>	83 Robinson, W. J., <i>g.</i>
Wagner, W. J., <i>s.</i>	Bennett, J. H., <i>s.</i>	86 Peters, G. A., <i>g.</i>
71 Moore, C. Y., <i>g.</i>	76 Lackner, H. G., <i>g.</i>	89 Collins, J. H., <i>g.</i>
Henning, N. P., <i>s.</i>	McPhedran, A., <i>s.</i>	Chambers, G., <i>s.</i>
Forrest, W., <i>s.</i>	Howerman, A. C., <i>s.</i>	90 Barker, L. F., <i>g.</i>
72 Zimmerman, R., <i>g.</i>	77 Stuart, W. T., <i>g.</i>	91 Barnhart, W. N., <i>g.</i>
Crozier, J. B., <i>s.</i>	78 Bonnar, H. A., <i>g.</i>	92 Middlebro, T. H., <i>g.</i>
78 Meldrum, N. W., <i>g.</i>	Meek, H., <i>s.</i>	Bruce, H. A., <i>s.</i>

**Winners of Faculty Medals and Scholarships
for 1893-94.**

Medals.

<i>Faculty Gold Medal</i>	McCOLLUM, W. J.
<i>1st Faculty Silver Medal</i>	RUTLEDGE, H. N.
<i>2nd " " "</i>	CRAIN, W. E.
<i>3rd " " "</i>	JOHNSTON, H. A.

Third Year.

First and second scholarships divided between Currie, M., and Merritt, A. K.

Second Year.

First and second scholarships divided between Goldie W., and Roberts, E. L.

First Year.

First scholarship, Elliott, J. H.

Second scholarship, Addy, A. H.

George Brown Memorial Scholarship in Medical Science, in order of merit :—Crain, W. E., Smyth, C. E., Curtis, J. D., Wells, R. B., McCollum W. J., Bull, J.

**STUDENTS OF THE UNIVERSITY FACULTY WHO
RECEIVED THE DEGREE OF M. B. IN 1894.**

Agnew, T.	Gardner, A. E.	McLaren, H.
Alexander, W. H.	Graham, E. D.	Mencke, J. R.
Armour, D.	Gray, G. B.	Park, J.
Ball, W. A.	Greenwood, A. B.	Porter, G. D.
Becket, J.	Guelph, H.	Reagin, H. L.
Boyd, W. B.	Hackett, W. A.	Rutledge, H. N.
Bull, J. H.	Harris, N. M.	Sinclair, J. P.
Campbell, B. A.	Hastings, R. J.	Sinclair, H. H.
Coleman, F.	Hodgson, T. C.	Smith, F. W.
Coulthard, W. L.	Johnston, H. A.	Smyth, C. E.
Crain, W. E.	Jones, A. H.	Stenhouse, J.
Crawford, J.	Lawson, J. A.	Stephen, W.
Curtis, J. D.	Laycock, R. G.	Stockton, F. W.
Cuthbertson, H. A.	Lipsey, R. M.	Wells, R. B.
Ferris, G. M.	McClenahan, D. A.	White, J. A.
Fiset, L. O.	McCollum, W. J.	Whitelaw, T. H.
Fisher, E. B.	McIlwraith, R. C.	Wicket, T.
Ford, J. W.	McIntosh, J. W.	Wallace, N. C.
Galloway, A.	McKee, J. F.	



CURRICULA AND REGULATIONS

FOR DEGREES OF

**LL.B., C.E., B.A.Sc., D.D.S., Phm.B., B.S.A., Mus.Bac., B.Pæd.,
D.Pæd.**

CURRICULUM IN LAW.

The subjects of examination in the First, Second and Third years of the Faculty of Law are identical with those in the Second, Third and Fourth years of the Department of History and Political Science in the Faculty of Arts (see pp. 67-69 above).⁵

Fourth Year.

The subjects of examination in the Fourth year are as follows:—

1. REAL PROPERTY Leith's Blackstone and Digby's History of the Law of Real Property.
2. TORTS. Pollock on Torts and Bigelow on Torts.
3. DOMESTIC RELATIONS. Eversley on Domestic Relations.
4. CORPORATIONS. Lindley on Corporations.
5. CRIMINAL LAW. { Harris, Criminal Law.
Taschereau, Criminal Statutes of Canada.
6. COMMERCIAL LAW Smith, Mercantile Law and Chalmers on Sales.
7. EQUITY Snell, Principles of Equity.
8. CONFLICT OF LAWS Westlake, Private International Law.

Graduates in the Faculties of Arts or Medicine are allowed to substitute for the requirements in the First, Second and Third years, an examination in the following subjects:—

1. The History of English Law.
2. The History of Roman Law.
3. The Law of Contracts.
4. General Jurisprudence.
5. English and Colonial Constitutional Law.
6. Federal Constitutional Law.
7. International Law.
8. Political Economy (either the examination in the elementary Political Economy of the Second year in the Political Science course or that of the Fourth year in the Pass course), unless they have already passed one of these examinations as part of their B.A. course, in which case they shall pass the examination in English Constitutional History of the Second year in the Political Science course.

Graduates availing themselves of this alternative are allowed to divide the work here prescribed, taking a portion in one year and the residue in a subsequent year.

Graduates availing themselves of this second alternative are not permitted to proceed to any part of the examination in the Fourth year in Law, unless they have already passed in a previous year or in previous years, the examination in at least five out of the eight subjects here prescribed.

CURRICULUM IN APPLIED SCIENCE.

Degree of Civil Engineer.

By a Statute of the University of Toronto, passed in 1884, graduates of the School of Practical Science in the department of Civil Engineering may be admitted to the degree of Civil Engineer upon the following conditions:—

1. Candidates for the said degree shall hold the Diploma in Civil Engineering of the Ontario School of Practical Science.
2. Candidates shall have spent three years after receiving the said Diploma in the actual practice of the profession of Civil Engineering.
3. Candidates shall have spent at least two years of the said period in the construction and operation of engineering works as distinguished from surveys merely.
4. Satisfactory evidence shall be offered as to the periods spent on the different classes of engineering employment, and intervals during which the candidate was not engaged in the construction or operation of engineering works, or in the prosecution of surveys, shall not be included as portions of the aforesaid period of three years.
5. It shall not be necessary that the several intervals required to make up the period of three years be consecutive.
6. Each candidate shall prepare for the approval of the Senate, an original essay on some engineering subject, accompanied with detailed explanations, drawings, specifications and estimates; he shall also be examined on the subject of the essay, as well as on the work or works on which he has been engaged, unless exempted therefrom on the special recommendation of the examiner.
7. The subject of the said essay shall be forwarded to the Registrar for the approval of the Senate not later than the first day of February.
8. Candidates shall notify the Registrar of their intention of proceeding to the degree of C. E., not later than the first day of April.
9. The evidence required in section 4, together with the essay, drawings and estimates, shall be sent to the Registrar not later than the first day of May.
10. The examination of the essay, drawings and estimates, and any further examination of the candidate that may be considered necessary, may be held in May.
11. The fee for the degree of C.E. shall be \$20, and shall be paid to the Registrar not later than the first day of May.
12. The essay, drawings and estimates submitted by the candidate shall be the property of the University.

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 is to be accompanied by all necessary drawings, specifications, tables and estimates. To pass in the Thesis 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.
- B. { Architecture.
Strength and Elasticity of Materials.
Hydraulics.
Therodynamics and Theory of Heat Engines.
Electricity and Magnetism.
- C. { Industrial Chemistry.
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 such application must be accompanied by a fee of five dollars.

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 Registrar 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.

For further information apply to the Registrar of the University of Toronto.

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 they

1. Possess a degree in Arts (not being 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 of Canada; or
3. Are Matriculants in the College of Physicians and Surgeons of Ontario; or
4. Have passed the 1st, 2nd or 3rd class Departmental Non-professional examinations in which the Latin option has been taken.

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, on the first day of November, A.D. 1888, shall be admitted as 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 practise Dentistry in Ontario.

Undergraduates (candidates for the degree), not resident in Ontario, must:

1. Have devoted at least three full calendar years (not being engaged in any other business) to the study of Dentistry.
2. Must have attended at least two 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.

Applications for the final examination, which will be held at the same time as the annual examinations in the Faculty of Medicine, 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 final examination shall be :

1. Theory and Practice of Operative Dentistry.
2. Theory and Practice of Dental Prosthetics.
- (These examinations will be partly written, partly oral, and partly practical.)
3. Dental Pathology.
4. Dental Histology.
5. Principles and Practices of Medicine and Surgery as applied in Dentistry.
6. Dental Materia Medica and Therapeutics.
7. General Anatomy and special Anatomy of head and neck.
8. Physiology.
9. Chemistry.

(These examinations will be written.)

No candidate shall be considered as having passed the examination who has not obtained 50 per cent. of the marks allotted ; nor shall a candidate be considered as having passed in any subject who has not obtained at least 33 $\frac{1}{3}$ per cent. of the marks allotted to such subject.

Admission "Ad Eundem Gradum."

A graduate of another institution of recognized standing (provided his degree be not an honorary one) may be admitted to the same degree in the University of Toronto.

Fees.

The fee for matriculation examination 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 the degree of D.D.S. shall be twenty dollars.

No fee shall be charged for transference from any Faculty of this 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 1st, 2nd or 3rd class Departmental Non-professional examination in which the Latin option 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 June, A. D. 1893, 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), residents of 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 practise 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

CURRICULUM IN AGRICULTURE.

Degree of Bachelor of Science of Agriculture.

The course of study for the degree of Bachelor of the Science of Agriculture extends over a period of three years. The subjects of examination in each year are as follows :—

First Year.

- | | |
|-------------------------|-------------------------------|
| 1. Agriculture. | 8. Veterinary Anatomy. |
| 2. Live Stock. | 9. Veterinary Materia Medica. |
| 3. Inorganic Chemistry. | 10. English Literature. |
| 4. Organic Chemistry. | 11. " Composition. |
| 5. Geology. | 12. Book-keeping. |
| 6. Botany. | 13. Arithmetic. |
| 7. Zoology. | 14. Mensuration. |

Second Year.

- | | |
|----------------------------|-------------------------------------|
| 1. Agriculture. | 9. Veterinary Surgery and Practice. |
| 2. Live Stock. | 10. English Literature. |
| 3. Dairying. | 11. Political Economy. |
| 4. Arboriculture. | 12. Book-keeping. |
| 5. Agricultural Chemistry. | 13. Mechanics. |
| 6. Entomology. | 14. Levelling and Surveying. |
| 7. Meteorology. | 15. Systematic and Economic Botany. |
| 8. Veterinary Pathology. | |

Third Year.

- | | |
|--------------------------------|---------------------------------------|
| 1. Agriculture and Live Stock. | 7. Microscopy. |
| 2. Dairying. | 8. English Language and Literature. |
| 3. General Chemistry. | 9. English Composition. |
| 4. Analytical Chemistry. | 10. Drawing. |
| 5. Canadian Geology. | 11. Algebra or Euclid. |
| 6. Natural History. | 12. Latin (Principia Latina, Part I.) |

The examinations in this course are held at the Ontario Agricultural College, Guelph.

CURRICULUM IN MUSIC.

Degree of Bachelor of Music.

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 :

Composition ; grammar ; poetical literature (intelligent comprehension of and familiarity with the prescribed texts will be required).

1895 : TENNYSON, *Recollections of the Arabian Nights*, *The Poet*, *The Lady of Shalott*, *The Lotus-Eaters*, *Morte d'Arthur*, *The Day-Dream*, *The Brook*, *The Voyage*, *The Holy Grail*.

II. Arithmetic : Simple rules, vulgar and decimal fractions, proportion and interest.

III. One of the following languages :—

1. Latin :

Grammar and Exercises (Bradley's *Arnold*, 1-24) ; examination on either *Virgil* or *Cæsar*, in each year as given below.

1895 : VIRGIL, *Æneid*, II. ; CÆSAR, *Bellum Gallicum*, V, VI.

2. French :

Grammar ; translation into French of short English sentences ; examination on one of the following texts.

1895 : SARDOU, *La Perle noire* (the romance).

3. German :

Grammar ; translation into German of short English sentences ; examination on one of the following texts.

1895 : RIEHL, *Culturgeschichtliche Novellen* (*Der stumme Ratsherr*, *Der Dachs auf Lichtmess*, *Der Leibmedicus*).

4. Italian :

Elementary Grammar (Grandgent's *Grammar and the Italian Principia* recommended) ; translation into Italian of short English sentences ; an examination on the following text.

1895 : DE AMICIS, *Cuore* (*I Racconti mensili*).

In lieu of the above a certificate of having passed the Primary or any subsequent examination in a High School, or of Matriculation in Arts in any University in Her Majesty's Dominions, will be accepted, and 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.

Before being admitted to any of the following examinations, all candidates shall be required to give evidence of a sound practical knowledge of piano-forte or organ playing.

FIRST YEAR EXAMINATION.

HARMONY.—Knowledge of chord formation and progression, harmonization of melodies and figured basses. Musical history with special reference to the early use of musical instruments, the development of Gregorian and Ambrosian chants, and the introduction of harmony and part writing.

Text Books: Stainer's Primer of Harmony; Jadassohn's Harmony; Banister's Text Book of Music; Bonavia Hunt, Naumann; Histories of Music.

SECOND YEAR EXAMINATION.

ELEMENTARY ACOUSTICS.

HARMONY.—The harmonization of melodies or chorales in four, five and six part harmony, the Cantus Firmus to be given alternately to the different parts. Counterpoint, simple and double up to five parts. Questions will also be given in three or four part counterpoint. Musical history, with special reference to the development of the opera and oratorio, and the influence of the Italian, Netherlands, French, and German schools in the time of Bach.

Text-Books: Banister's Text Book of Music (up to counterpoint); Bridge's Primer of Counterpoint and Double Counterpoint; Jadassohn, Simple and Double Counterpoint; Prout's Counterpoint.

THIRD YEAR EXAMINATION.

FUGUE, CANON, AND FORM.—A fugue in not more than four parts to be composed on a given subject; a canon to be continued for a certain number of bars in the interval given. Explanation of musical forms to be given. Musical history from the beginning of the 18th century to the present time.

Text-Books: J. Higgs' Primer of Fugue; Pauer's Primer of Musical Form; Busser, Treatise on Musical Form; Prout's Primer of Instrumentation; Berlioz on Instrumentation; Hawkins, Naumann, Ambros: Histories of Music. For reference: Grove's Dictionary of Music and Musicians.

ANALYSIS OF FULL SCORE.—Beethoven's Symphony No. 1; Mendelssohn's Elijah.

In addition, for the final examination, an exercise in the shape of a composition either sacred or secular, will be required, containing five part harmony and fugal counterpoint, with an accompaniment for at least a string band, and sufficiently long to occupy fifteen minutes in performance.

Every candidate for final examination before being allowed to enter for the examination shall present a certificate of having passed the full course of instruction, theoretical and practical, in all subjects of the above examination, in any affiliated or approved college of music.

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 gradum* graduates of other Universities, after due enquiry as to the requirements demanded by the institutions from which candidates hold their degrees, but no candidate will be admitted to a degree without submitting original compositions to be approved by the examiners.

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 three original compositions, consisting of any three of the following :

- | | |
|-----------------|--|
| 1. An Oratorio. | 3. A Symphony. |
| 2. A Cantata. | 4. An extended piece of Chamber Music. |

Fees.

Matriculation	\$ 5 00
Each examination subsequent to matriculation	10 00
Degree of Mus. Bac.	20 00

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 (a) a degree in Arts, obtained after a regular course, from a University in the British Dominions; and (b) a full first-class or High School assistant's certificate granted by the Education Department of Ontario.

2. The candidate shall pass an examination in Psychology, with its application 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.

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.

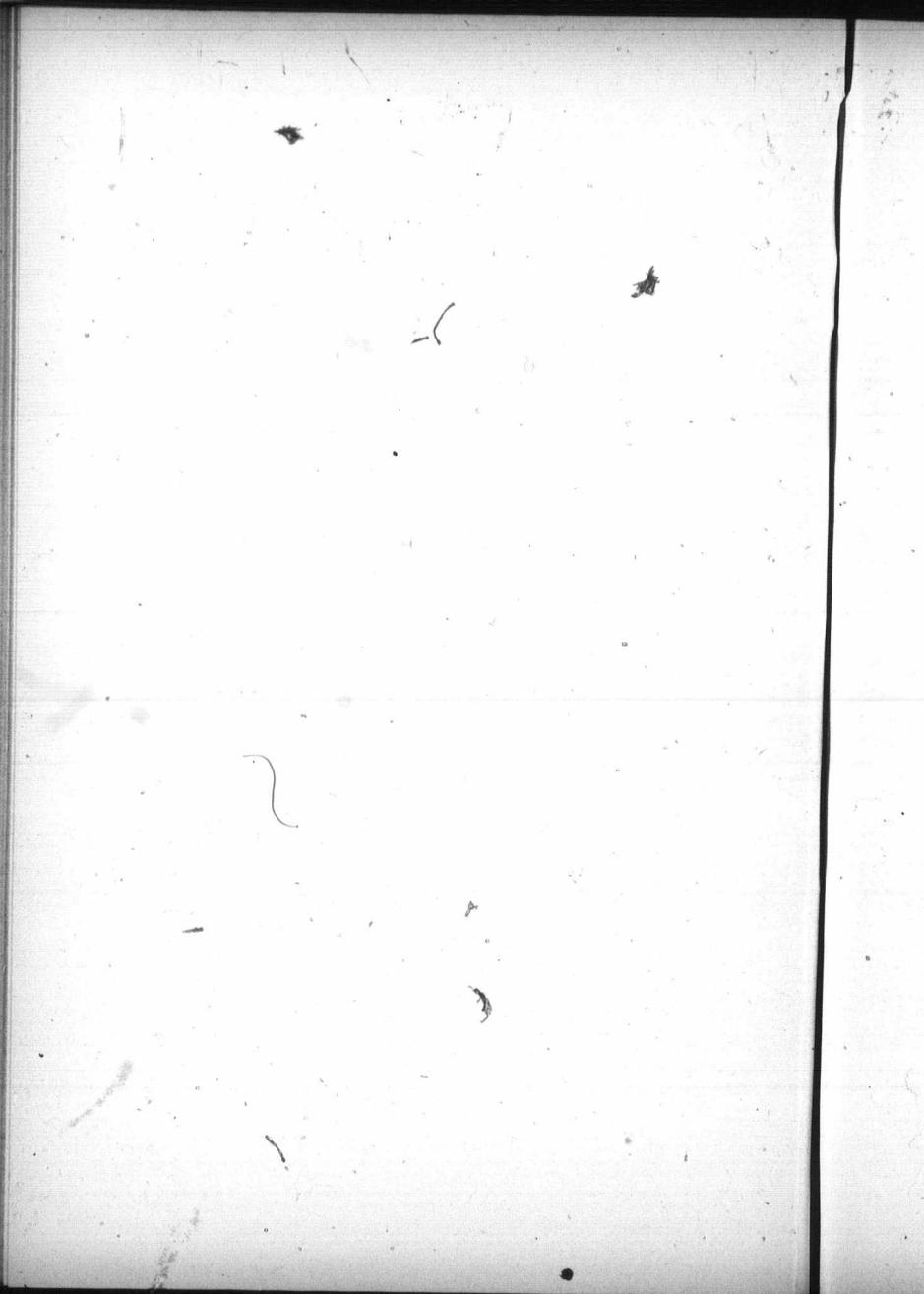
4. The fee for the degree of B. Pæd. shall be ten dollars, and shall be paid to the Registrar not later than the first day of April.

5. The following are the text-books recommended: McLellan's Applied Psychology; Dewey's Psychology; Sully's Handbook of Psychology (Appleton); Ladd's Outlines of Physiological Psychology; Quick's Educational Reformers; Mahaffy's Old Greek Education; Compayre's History of Pedagogy; Gill's Systems of Education; Spencer's Education; Fitch's Lectures on Teaching; Landon's School Management; Baldwin's School Management; Radestock's Habit in Education; Guyau, Education and Heredity; Fouillée, Education from a National Standpoint;—the authorized High and Public School text-books; White's Elements of Pedagogy; Payne's (Joseph) Lectures on the Science and Art of Teaching; Report of the United States Bureau of Education on Secondary School Studies (1893); Laurie's Language and Linguistic Studies; Bain's Teaching of English; Stanley Hall's Method of Teaching History; Galloway's Education Scientific and Technical; Hinsdale's How to Study and Teach History; Youman's Culture Demanded by Modern Life; Heath's Methods of Teaching Modern Languages; Colbeck's The Teaching of 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. The candidate shall hold, (a) a degree in Arts, not being an honorary degree, from a university in the British Dominions; (b) a full certificate as specialist, granted by the Education Department of Ontario, in one of the following departments: Classics, Mathematics, English, French and German, Natural Science; and (c) shall have had at least ten years' successful experience in Ontario, duly manifested to the satisfaction of the Committee on Examinations.
2. The candidate who holds the degree of B. Pæd. from this University may, not less than three years after having taken the degree of B. Pæd., proceed to the degree of D. Pæd. in the following manner :
He shall pass an examination in Psychology, with its applications to Pedagogy; the Science of Education; the History and Criticism of Educational Systems; School Organization and Management; and the Methods of Teaching the subjects of Primary and Secondary Education.
3. 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 degree of D. Pæd. shall be ten dollars, and 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 certificate of successful experience.
5. The following text-books are recommended for the degree of Doctor of Pedagogy: James' Psychology (briefer course); Preyer's Mental Development of the Child; Lange's Apperception; Dewey's Psychology; Sully's Human Mind; Baldwin's Elements of Psychology; Laurie's Comenius; Browning's Educational Theories; Laurie's Rise and Constitution of Universities; Painter's History of Education; Compayre's History of Education; Stanley's Life of Dr. Thomas Arnold; Herbert's Science of Education; Bain's Science of Education; Frœbel's Education of Man; Courtisborne Bowen's Frœbel and the Kindergarten; Rousseau's Émile (ed. W. H. Payne); Perez' First Three Years of Childhood; De Guimp's Pestalozzi; Kleim's European Schools; Payne's (W. H.) Contributions to the Science of Education; Laurie's Primary Education; Thompson's Science of Teaching; The School Law and Regulations; White's School Management; Currie's Principles and Practice of Common School Education; White's Elements of Pedagogy; Baldwin's School Management; the more recent contributions on the school systems of Canada, the United States, England, and Germany.



VICTORIA UNIVERSITY.
(Federated.)

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 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, having been appointed Principal, opened the first College session under the enlarged charter.

In the year 1844, the Rev. A. McNab, 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 years 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 this 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., 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 Wesleyan Ladies' College, Hamilton; the Ontario Ladies' College, Whitby; Alma College, St. Thomas.

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 University occupied their new buildings in the Queen's Park,

Toronto, and the federation of Universities was practically summated. 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.

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 WESLEYAN LADIES' 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*.

Faculty of Arts.

REV. N. BURWASH, S.T.D., *President*.
 REV. A. H. REYNAR, M.A., LL.D., *Dean, Professor of English Literature*.
 A. R. BAIN, M.A., LL.D., *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), *Professor of the Latin Language and Literature*.
 REV. JOHN BURWASH, M.A., D.Sc., *Honorary Professor of Physics and Chemistry*.

- JOHN FETCH, M.A., *Professor of the French Language and Literature.*
 L. E. HORNING, M.A., Ph.D., *Professor of German and Old English.*
 REV. J. F. McLAUGHLIN, M.A., B.D., *Professor-elect of Oriental Languages.*
 A. L. LANGFORD, B.A., *Lecturer in Greek.*
 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. 52-56.

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	\$30 00
SECOND YEAR	Any course or department	30 00
THIRD YEAR	Chemistry and Mineralogy	25 00
	Natural Sciences	25 00
	Any other course or department ..	30 00
FOURTH YEAR	Chemistry and Mineralogy or Physics	25 00
	Biology	20 00
	Any other course or department ..	30 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. 98-103, etc. This includes exemption from fees in Victoria as in University College.

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.

The Hodgins prize, the gift of J. G. Hodgins, Esq., LL.D., for English Literature.

The Wallbridge Prize for Biblical Greek in the Third year.

The Clarke Prize for pass Ethics in the Third year.

The Ryerson Prize, the gift of J. G. Hodgins, Esq., LL.D., for Biblical Literature in the Third year.

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 Edward Wilson Gold Medal in Classics.

The W. E. Sanford Gold Medal in Mathematics.

The J. J. MacLaren Gold Medal in Moderns.

The E. J. Sanford Gold Medal in Philosophy.

The G. A. Cox Gold Medal in Natural Science.

The S. H. James Silver Medals in the five preceding departments

Faculty of Theology.

REV. NATHANIEL BURWASH, S.T.D., LL.D., *President, Edward Jackson Professor of Biblical and Systematic Theology.*

REV. ALFRED 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., *Geo. A. Cox Professor of New Testament Exegesis and Literature.*
 REV. JOHN BURWASH, M.A., D.Sc., *Professor of 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.

Undergraduates in Arts may take certain Theological options, and so shorten the B.D. course to two years after graduation in Arts.

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.

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.

The Faculty.

- REV. J. R. TREFY, B.A., C.S.B., *Superior, Professor of Mental Science.*
 REV. R. McBRADY, C.S.B., *Director of Studies.*
 REV. J. J. GUINANE, C.S.B., *Treasurer and Professor of Natural Philosophy.*
 W. D. HEENAN, Esq., *Professor of Rhetoric.*
 REV. A. P. DUMOUCHEL, C.S.B., *Professor of Belles Lettres.*
 REV. A. MARTIN, C.S.B., *Professor of Mathematics.*

Wycliffe College.

This federating College, was founded in 1877, and known at first as the Protestant Episcopal Divinity School. As that name implies, it is a Church of England Theological College, and its work and methods are based upon the position of "distinctive evangelical teaching." It was affiliated with the University in 1885; and upon the passage of the University Federation Act became, in accordance with the terms of that Act, a federating College, with additional representation on the Senate. The present building, completed in 1891, stands to the north-east of the main University building.

The Faculty.

- REV. PRINCIPAL SHERATON, D.D., *Professor of Dogmatic Theology.*
 REV. PRINCIPAL SHERATON, D.D., *Professor 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.*
 REV. F. G. MITCHELL, M.A., *Professor of Apologetics.*
 REV. H. J. CODY, M.A., *Professor of Ecclesiastical History.*
 REV. F. G. MITCHELL, M.A., *Professor of Liturgics and Patristics.*
 REV. FREDERICK H. DUVERNET, B.D., *Professor of Homiletics and Pastoral Theology.*
 MR. H. N. SHAW, B.A., *Instructor in Elocution.*
 REV. RURAL DEAN JONES, M.A., *Honorary Lecturer on Liturgics.*
 REV. RURAL DEAN ARMITAGE, *Honorary Lecturer on Polemics.*

The Theological course proper extends over a period of three years; the preparatory work consisting of the First year's work in Arts of the University, or its equivalent.

The first two years of the Theological course may 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.

Graduates in Arts may so combine the three years' work as to take the full Theological course in two years.

For further particulars, see Calendar of the College.

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 or Free Synod, 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, the Theological Institute of the United Presbyterian Synod and Knox College were united.

After many changes of habitation the present buildings on Spadina Avenue were erected in 1875. It was affiliated with the University of Toronto in 1885, and in the University and University College its students receive instruction in the subjects of an Arts course prescribed for them as preliminary to the special work in Theology. These subjects are English, History, Logic and Rhetoric, Chemistry, Mental and Moral Philosophy, and Hebrew. The course in Theology extends over three years. A number of scholarships and prizes are offered for competition in each year.

The Faculty.

- REV. WILLIAM CAVEN, D.D. (Principal), *Professor of Exegetics and Biblical Criticism.*
 REV. WILLIAM GREGG, D.D., *Professor of Church History.*
 REV. WILLIAM McLAREN, D.D., *Professor of Systematic Theology.*
 REV. R. Y. THOMSON, M.A.; B.D., *Professor of Apologetics and Old Testament Literature.*
 REV. J. J. A. PROUDFOOT, D.D., *Lecturer on Homiletics, Church Government, and Pastoral Theology.*
 A. C. MOUNTTEER, B.E., *Teacher of Elocution.*
 GEORGE LOGIE, B.A., *Tutor in Latin, Greek, and English.*

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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, 1889, 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:—

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 will make him immediately useful when he enters into active professional work.

In order to afford an opportunity of taking full advantage of the engineering, chemical and assaying laboratories a fourth or post-graduate year has been established. In the regular three years' course the laboratory and practical work is of such a nature that it can be successfully carried on in the intervals between lectures. All laboratory work which cannot be advantageously pursued in connection with fixed timetable for lectures has been reserved for the fourth year. The fourth year is thus essentially a laboratory year. Lectures are given in connection with the work as occasion requires. Graduates who fulfil the requirements of the fourth year are eligible for the degree of Bachelor of Applied Science (B.A.Sc.), University of Toronto (see p. 158). Graduates in the Department of Civil Engineering are also eligible for the degree of Civil Engineer (C.E.), University of Toronto, after three years of practical work (see p. 157). For regulations as to admission, etc., and details of the course of instruction, see the Calendar of the School.

The Faculty.

- J. GALBRAITH, M.A., M. Can. Soc. C. E., *Professor of Engineering (Principal)*.
 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 on Surveying (Secretary)*.
 C. H. C. WRIGHT, B.A.Sc., *Lecturer on Architecture*.
 T. R. ROSEBRUGH, M.A., Grad. S.P.S., *Lecturer on Electrical Engineering*.
 * ———, *Lecturer on Applied Mechanics*.
 J. A. DUFF, B.A., Grad. S.P.S., *Fellow in Engineering*.
 A. LANE, Grad. S.P.S., *Fellow in Surveying*.
 E. J. LASCHINGER, B.A.Sc., *Fellow in Mechanical Engineering*.
 * ———, *Fellow in Electrical Engineering*.
 W. E. BOUSTEAD, B.A.Sc., *Fellow in Metallurgy and Assaying*.
 W. LAWSON, B.A.Sc., *Fellow in Analytical and Applied Chemistry*.

* To be appointed before October 1st, 1894.

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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. Its curriculum embraces all the subjects required by the College of Physicians and Surgeons of Ontario.

The Faculty.

- WALTER B. GEIKIE, M.D., C.M., D.C.L., Dean of the Faculty, *Professor of Principles and Practice of Medicine.*
- J. ALGERNON TEMPLE, M.D., C.M., *Professor of Obstetrics, Gynecology, and Diseases of Children.*
- THOMAS KIRKLAND, M.A., *Professor of General Chemistry and Botany.*
- C. W. COVERNTON, M.D., C.M., *Emeritus Professor of Medical Jurisprudence and Toxicology.*
- FRED. DE M. GRASSETT, M.B., C.M., *Professor of Principles and Practice of Surgery, and of Clinical Surgery.*
- W. T. STUART, M.D., C.M., *Professor of Practical and Analytical Chemistry.*
- CHARLES SHEARD, M.D., C.M., *Professor of Physiology and Histology, and Lecturer on Clinical Medicine.*
- G. STERLING BYERSON, M.D., C.M., *Professor of Ophthalmology, Otology, Laryngology, etc.*
- LUKE TESKEY, M.D., C.M., *Professor of Descriptive Anatomy and Lecturer on Clinical Surgery.*
- JOHN L. DAVISON, B.A., M.D., C.M., *Professor of Materia Medica and Therapeutics, Theory and Art of Prescribing, etc., and Lecturer on Clinical Medicine.*
- G. A. BINGHAM, M.D., C.M., *Professor of Applied Anatomy.*
- NEWTON ALBERT POWELL, M.D., C.M., *Lecturer on Medical Jurisprudence and Surgical Appliances.*
- E. A. SPILSBURY, M.D., C.M., *Lecturer on Rhinology and Laryngology.*
- ALLAN BAINES, M.D., C.M., *Lecturer on Diseases of Children.*
- D. GILBERT GORDON, B.A., M.D., C.M., *Lecturer on Sanitary Science, and in charge of Practical Microscopical Laboratory Work in Toronto General Hospital.*
- E. B. SHUTTLEWORTH, Esq., *Practical Pharmacy, etc.*
- A. Y. SCOTT, B.A., M.D., C.M., *Zoology, etc.*
- D. J. GIBB WISHART, B.A., M.D., C.M., *Instructor in the Appliances used in Diseases of the Eye, Ear, Nose, and Throat.*
- C. TROW, M.D., C.M., *Clinical Lecturer on Diseases of Eye and Ear.*
- D. J. GIBB WISHART, B.A., M.D., C.M., *Senior Demonstrator of Anatomy.*
- J. T. FOTHERINGHAM, B.A., M.D., C.M., *Second Demonstrator of Anatomy.*
- F. C. COWAN, M.D., C.M., P. J. STRATHY, M.D., C.M., H. B. ANDERSON, M.D., C.M., C. H. ROSE, M.D., C.M., *Assistants in Anatomy.*

Woman's Medical College.

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 Examinations 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, summer course, 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.*
 A. B. PYNE, M.B., *Professor of Chemistry.*
 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 Lecturer on Clinical Medicine.*
 G. B. SMITH, M.D., C.M., *Professor of Materia Medica and Pharmacy.*
 J. MACCALLUM, B.A., M.D., C.M., *Professor of Physical Diagnosis, Lecturer, Demonstrator, etc.*
 H. T. MACHELL, M.B., *Professor of Obstetrics.*
 N. A. POWELL, M.D., C.M., *Lecturer on the Practice of Surgery.*
 W. B. THISTLE, M.D., *Clinical Lecturer on the Diseases of Children.*
 G. S. CLELAND, M.B., *Lecturer on Anatomy.*
 A. B. ATHERTON, M.B., *Lecturer on the Principles of Surgery.*
 B. E. MCKENZIE, B.A., M.D., C.M., *Lecturer on Medical, Surgical and Topographical Anatomy, Demonstrator of Anatomy, Lecturer on Orthopaedics.*
 R. SHAWE TYRRELL, M.B., *Lecturer on Medical Jurisprudence.*
 L. M. SWEETNAM, M.D., C.M., *Lecturer on Therapeutics.*
 A. A. MACDONALD, M.D., *Lecturer on Clinical Medicine.*
 SUSANNA P. BOYLE, M.D., C.M., *Lecturer on Histology, Demonstrator of Microscopy, Normal and Pathological.*

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GRAHAM CHAMBERS, B.A., M.B., *Lecturer on Organic Chemistry and Toxicology.*

LELIA A. DAVIS, M.B., *Assistant Demonstrator of Anatomy.*

E. B. SHUTTLEWORTH, *Lecturer on Inorganic Chemistry and Bacteriology.*

F. W. CANE, M.B., *Lecturer on Mental Diseases.*

G. GORDON, B.A., M.D., C.M., *Lecturer on Sanitary Science.*

JENNIE GRAY, M.D., C.M., *Assistant Demonstrator of Anatomy.*

R. J. DWYER, M.B., *Lecturer on Pathology.*

A. B. EADIE, M.D., C.M., *Lecturer on Physiology.*

E. M. CURZON, B.A., *Lecturer on Biology.*

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 WILLMOTT, 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., Surgeon to Toronto General Hospital, *Professor of Principles and Practice of Medicine and Surgery, as applied in Dentistry.*

W. T. STUART, M.D., C.M., Professor of Chemistry, Trinity Medical School, *Professor of Chemistry.*

W. EARL WILLMOTT, 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.*
Professor of Visceral Anatomy and Physiology.

JOHN J. MACKENZIE, B.A., Analyst Provincial Board of Health, *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, M.D., C.M., *Professor of Anatomy.*

A. E. WEBSTER, D.D.S., L.D.S., *Demonstrator of Dental Technique and Prosthetics.*

J. BRANSTON WILLMOTT, D.D.S., *Dean of the Faculty.*

W. E. WILLMOTT, D.D.S., *Superintendent of the Infirmary.*

L. TESKEY, M.D., C.M., *Registrar of the Faculty.*

Lecture Rooms and Infirmary, 13 Louisa Street, Toronto.

The Royal College of Dental Surgeons was affiliated with the University of Toronto in 1889, and shortly thereafter an examination for the degree of Doctor of Dental Surgery was instituted in the University. For Curriculum, see p. 160.

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Ontario College of Pharmacy.

The Council of the College of Pharmacy, the annually 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. 162. For details as to laboratory and other courses, preliminary qualifications, etc., see Annual Calendar of the College.

The Faculty.

- CHARLES F. HEEBNER, Ph.G., Phm.B., Toronto, *Dean, Professor of Pharmacy, Director of Pharmacal Laboratory.*
- A. Y. SCOTT, B.A. (Tor.), M.D., C.M. (Trin.), *Professor of Theoretical Chemistry and Botany.*
- GRAHAM CHAMBERS, B.A., M.B. (Tor.), *Professor of Analytical Chemistry and Toxicology, Director of Chemical Laboratory.*
- J. T. FOTHERINGHAM, B.A., M.B. (Tor.), M.D., C.M. (Trin.), *Professor of Materia Medica and Pharmacognosy.*
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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 labor. 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 may be admitted. For Curriculum, see p. 164.

Officers.

- JAMES MILLS, M.A., LL.D., *President.*
 J. HOYES PANTON, M.A., F.G.S., *Professor of Geology and Natural History.*
 A. E. SHUTTLEWORTH, B.A.Sc., *Professor of Chemistry.*
 J. HUGO REED, V.S., *Professor of Veterinary Science.*
 H. H. DEAN, B.S.A., *Professor of Dairy Husbandry.*
 J. B. REYNOLDS, B.A., *Assistant Resident Master.*
 WILLIAM RENNIE, *Farm Superintendent.*
 C. A. ZAVITZ, B.S.A., *Experimentalist.*
 G. E. DAY, B.S.A., *Lecturer on Agriculture.*
 H. L. HUTT, B.S.A., *Lecturer on Horticulture.*
 E. HARCOURT, B.S.A., *Assistant Chemist.*
 CAPTAIN WALTER CLARKE, *Instructor in Drill and Gymnastics.*
 A. MCCALLUM, *Bursar.*

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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. 165). 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, H. M. FIELD, W. E. FAIRCLOUGH, ARTHUR E. FISHER, T. C. JEFFERS, HERR RUTH, W. J. McNALLY, MISS SULLIVAN, MISS HAMILTON, MRS. LEE, MISS DEASE, MISS McLAUGHLIN, MISS STOCKS, MISS GRAHAM, MISS FERGUSON, MISS CANNIFF, MRS. HOWSON, *Piano.*
- F. H. TORRINGTON, W. E. FAIRCLOUGH, ARTHUR E. FISHER, T. C. JEFFERS, B. K. BURDEN, MRS. HOWSON, *Organ.*
- F. H. TORRINGTON, SIGNOR TESSEMAN, MISS NORA HILLARY, MISS REYNOLDS, *Singing.*
- MRS. DRESCHLER ADAMSON, MR. W. DONVILLE, HERR KLINGENFELD, *Violin.*
- W. J. OBERNIER, *Viola.*
- HERR RUDOLF RUTH, *Violoncello.*
- J. GOWAN, *Contra-Basso.*
- H. GOWAN, *Piccolo.*
- J. CHURCHILL ARLIDGE, *Flute.*
- A. G. RUSSELL, *Oboe.*
- C. CORLETT, *Clarinet.*
- J. KELLY, *Bass-Clarinet.*
- T. H. BARNARD, *Bassoon.*
- J. WALDRON, *Horn, Cornet, and Trumpet.*
- J. SLATTER, *Slide Trombone.*
- 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.*
ARTHUR E. FISHER, *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., Professor in the University of Toronto, *Acoustics.*
ARTHUR E. FISHER, *Harmony, Form and Analysis.*
ARTHUR E. FISHER, *Musical History and Biography.*
T. C. JEFFERS, *Elements of Music.*
F. H. TORRINGTON, *Normal Training Class.*
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APPENDIX.

APPENDIX.

The University of Toronto.

STUDENTS IN ATTENDANCE, 1893-94.

A. Students in Arts of the University of Toronto, University College, and Victoria University:—

First Year.

Alexander, J. H.	Brampton.	Chinn, W. C.	Uxbridge.
Anderson, A. W.	Toronto.	Christie, H. B.	Garnet.
Baines, A. W.	Dornoch.	Clark, M. M.	Aberdeen.
Baird, J. W.	Motherwell.	Clegg, C. H.	Owen Sound.
Baldwin, M. D.	London.	Colling, G. F.	Toronto.
Bale, G. S.	Hamilton.	Coney, F.	Toronto.
Balls, Geo. H.	Petrolia.	Cook, H. F.	Delhi.
Bapty, Miss M.	London.	Corcoran, Miss H.	Toronto.
Barron, F. H.	London.	Cornelle, C. G.	Glencoe.
Bean, H. R.	Toronto.	Counsell, J. L.	Hamilton.
Beattie, W.	Toronto.	Coventry, C. T.	Woodstock.
Black, G.	Georgetown.	Coventry, E. W.	Woodstock.
Booth, W. J.	Oakville.	Craig, J. E.	North Gore.
Boulbee, H.	Toronto.	Craig, W. D.	Port Hope.
Boyle, A. E.	Dunnville.	Cranston, R. A.	Caledon East.
Bradley, R.	Ottawa.	Creighton, C. D.	Toronto.
Bray, G.	Listowel.	Currie, C. J.	Toronto.
Brown, C.	Chesterville.	Dingman, E. C.	Stratford.
Brown, Miss J. P.	Niagara Falls.	DeLury, D. O'C.	Manilla.
Buchan, Miss E.	Toronto.	Deroche, Miss E. E.	Napanee.
Buchanan, G. E.	Zurich.	Dickson, W. M.	St. Mary's.
Burgess, D.	Bala.	Dunn, G. M.	Port Credit.
Burgess, T. A.	Ottawa.	Edgar, W. W.	Toronto.
Burkholder, J.	Unionville.	Edmison, J. H.	Peterborough.
Cameron, H. D.	Thamesford.	Elliott, T.	Smithville.
Campbell, A. H.	Toronto.	Ellison, D. I.	Tottenham.
Campbell, C. A.	Toronto.	Emes, H. R.	Toronto.
Campbell, Miss F.	Hamilton.	Evans, H. M.	Hamilton.
Campbell, J. D.	Wingham.	Everett, J. S. D.	Waterdown.
Campbell, Miss M. M.	Keene.	Fairhead, H. J.	Toronto.
Carriek, J. J.	Kincardine.	Ferguson, W. N.	Glen Orchard.
Carroll, Miss L.	Toronto.	Fissette, C. C.	Brantford.
Carson, R. J.	Rosemont.	Fitzgerald, W. G.	Ottawa.
Carss, J. O.	Smith's Falls.	Fleming, Miss L. I.	Islington.
Caswell, W. C.	Grimsby.	Forbes, Miss F. E.	Toronto.
Chapple, Miss A. G.	Little Falls, N. Y.	Forster, E. C.	Claude.
Chase, R. M.	Orillia.	Fox, J. W.	Aurora.

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Jones
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Jordan
Keith
Keys
Kitche
Kyles
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Lawson
Leech
Lefroy

First Year—Continued.

French, B.	Caledonia.	Lewis, Miss B	Truro, N.S.
Fulton, McK	Chesterville.	Lick, Miss A	Oshawa.
Galloway, M. W.	Toronto.	Lick, Miss M	Oshawa.
Gibson, T	Ingersoll.	Little, H. M.	London.
Gilbert, H. S.	Picton.	Livingstone, Miss N. E.	Toronto.
Gillies, B. W. D.	Teeswater.	Love, W. D.	London.
Gilroy, W. E.	Mount Forest.	Lundy, R. A.	Brampton.
Gollan, Miss S.	Brockville.	Marsh, W. S.	Toronto.
Goodeve, F. W.	Toronto.	Martin, J. S.	Cheapside.
Goodwin, G. W.	Grimsbly.	Meldrum, W. R.	Whitby.
Gowanlock, Miss M. L.	Toronto.	Merritt, R. N.	Smithville.
Graham, G. W.	Toronto.	Miller, F. G.	Wiarton.
Grant, D	Toronto.	Mitchell, J. W.	Port Elgin.
Gundy, H. W.	Toronto.	Moore, Miss E	Islington.
Hall, L. S.	Orangeville.	Morgan, J.	Sebringville.
Hamilton, T. B.	Bémore.	Morrison, A. J	Hanover.
Hamilton, W. T.	Motherwell.	Morton, Miss E. C.	Welliesley.
Hancock, J. H.	Galt.	Moss, W. P.	Toronto.
Harvey, A. L.	Arkona.	Muckle, C. P.	Toronto.
Harvey, Miss M.	Wyoming.	Munro, W. A.	Kagawong.
Helliwell, Miss M. McL	Toronto.	Murray, G. M.	Strathroy.
Henderson, A. E.	Invermay.	McCallum, J. A.	Strange.
Hendrick, A. C.	Frankford.	McCrea, J	Glenmorris.
Hendrick, A. W.	Frankford.	Macdonald, C. S.	Toronto.
Hendry, Miss L.	Stirton.	Macdonald, F. C.	Bendale.
Hewish, H. I.	Toronto.	McDougall, Miss H. B	Ottawa.
Hills, Miss M	London.	McFadyen, D	Fullarton.
Hinch, Miss E. M.	Napanee.	McGill, V. C.	Peterborough.
Hoidge, T. B.	Toronto.	McIntyre, A. D	Paisley.
Holdsworth, C. W.	Port Hope.	Mackay, W. C.	Toronto.
Hood, T. C.	Comet.	McKerchar, D.	Wroxeter.
Hore, A.	Valentia.	McKinley, J. M.	Seaforth.
Hunt, J. S.	Bracebridge.	McLeay, L	Watford.
Hunter, G. L.	Toronto.	McMaster, T. G	Toronto.
Hunter, W.	Sunderland, Eng.	McMichael, Miss E. R	Toronto.
Hunter, W. G.	Toronto.	McNab, A. E.	Walkerton.
Inkster, J. G.	Orkney, Scot.	McNamara, R	Southampton.
Jackson, Miss R.	Toronto.	McPhail, Miss E. J.	Campbellville.
James, F. G.	Bowmanville.	Narroway, H. H.	Toronto.
Johnston, F. J.	Palmerston.	Nicol, J. M.	London.
Johnston, W.	Redgrave.	Nichols, Miss B. H.	Hamilton.
Jolliffe, O.	Campbellford.	Nickle, G	Madoc.
Jones, C. G.	Paris.	Noble, G. W. R.	Toronto.
Jones, E. C.	Brantford.	O'Flynn, J. L.	Colborne.
Jordan, H. L.	Toronto.	O'Higgins, H. J	Toronto.
Keith, G. W.	Toronto.	Oliver, A	At Prior.
Keys, C	Clarksburg.	Page, R. B	Concord.
Kitchen, W. W.	Toronto.	Parson, J. L. R	Toronto.
Kyles, R. N.	Camilla.	Peake, J. R	Baltimore.
Lamont, Miss N. J.	Chesley.	Peake, Miss P	Toronto.
Langrill, Miss A. J	Oshweken.	Perkins, R. J. M	Gorrie.
Lash, Miss A. G.	Toronto.	Perry, F. M.	Toronto.
Lash, Miss N	Toronto.	Peterson, N. H	Berlin.
Lawson, A. A.	Toronto.	Philip, H. G. R.	Hamilton.
Leech, W. H.	Islington.	Philp, G. R.	Hamilton.
Lefroy, A. G.	Toronto.	Pool, G. F	Dundas.

First Year.—Continued.

Pool, T. W.	Dundas.	Tasker, L. H.	Mount Forest.
Potter, Miss E.	Clifford.	Taylor, J. T.	Galt.
Price, T. W.	Newburgh.	Tennant, Miss A. E.	Toronto.
Pritchard, H. J.	Fergus.	Thibaudeau, P. H.	Markdale.
Reade, H. R.	Toronto.	Thomas, Miss L.	Toronto.
Reed, Miss A.	Toronto.	Thomson, R. B. C.	Strathroy.
Richardson, J. D.	Wallaceburg.	Trout, H.	Toronto.
Riches, J. F. S.	Toronto.	Van Sauten, Miss P.	Toronto.
Robertson, J. N.	Toronto.	Vernon, N. E.	St. Mary's.
Rolls, C. M.	Toronto.	Viner, T. G.	Hamilton.
Ross, C. M.	Hamilton.	Vivian, R. P.	Toronto.
Russell, W. G.	Motherwell.	Wadsworth, Miss E.	Toronto.
Scilly, A. G.	Toronto.	Walker, Miss E.	Toronto.
Scott, Miss E. E.	Brampton.	Walker, E.	Alliston.
Scott, F. H.	Ottawa.	Wallbridge, J. E.	Belleville.
Scott, W. B.	Toronto.	Ward, J. W.	Atwood.
Shaver, M. A.	Toronto.	Watson, Miss E. M.	Toronto.
Sheridan, Miss F. L.	Toronto.	Watt, A. B.	Brautford.
Shier, Miss M.	Port Elgin.	Werry, F. W. O.	Tyrone.
Shier, W. C.	Leaskdale.	White, R. O.	Prince Albert.
Shotwell, W.	Strathroy.	Wightman, R.	Toronto.
Simpson, E.	Lucan.	Williams, A. S.	Newmarket.
Sinclair, Miss A. E.	Ridgetown.	Williams, W. E.	Claudeboye.
Southam, W. J.	Toronto.	Wilson, Miss G. A.	Whitvale.
Smeaton, W.	Picton.	Wilson, R. C.	Rockland.
Smith, B. M.	Toronto.	Wilson, Miss W.	Toronto.
Smyth, Miss N. H.	Rowena.	Wishart, A. C.	Shiloh.
Staebler, H. L.	Berlin.	Wood, T. H.	Toronto.
Stevens, J. M.	Chatham.	Woodworth, F. D.	Welland.
Stewart, A. E.	Pakenham.	York, Miss F.	Hamilton.
Stewart, W. K.	Toronto.	Young, E. O.	Hampden.
Stillman, R. F.	Campbellford.	Young, F. C.	Murray.
Swinerton, G. F.	Fonthill.	Young, W. D.	Markham.
Sutcliffe, J. F.	Camlachie.	Zimmerman, G. F.	Allenburg.
Swanzy, Miss G.	Toronto.		

Second Year.

Abbott, W. J.	Brockville.	Bragg, T. G.	Bowmanville.
Ackerman, Miss E.	Picton.	Bruce, H. A.	Toronto.
Addison, A. P.	Toronto.	Bruce, J. H.	Toronto.
Allin, R. W.	Toronto.	Brunt, R.	Kerwood.
Allingham, T. D.	Hillsburg.	Bryan, C. G.	Toronto.
Allison, J. E.	Frome.	Bryant, J. L.	Merriton.
Badgley, Miss B.	Toronto.	Burnham, Miss A. H.	Port Hope.
Baker, J. A.	Hamilton.	Burns, W. T.	Toronto.
Balmer, Miss J.	Toronto.	Callaghan, A.	Meadowdale.
Barr, A. F.	Lindsay.	Cameron, Miss E.	Toronto.
Bell, C. C.	Chatham.	Carder, E. D.	St. Thomas.
Bell, W. D.	Brucefield.	Carr, W. R.	Painswick.
Bensley, B. A.	Hamilton.	Carveth, H. R.	Port Hope.
Bolton, W.	Minnedosa, Man.	Cawthorpe, Miss M.	Thamesford.
Bonis, Miss S.	St. Mary's.	Chapman, A. R.	Toronto.
Brabazon, D. L.	Vroomanton.	Christie, D. McL.	Aberdour.
Brack, C.	Collingwood.	Clark, Miss G.	Hamilton.

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Dodds
Doig
Dunca
Dunca
Dupre
Eastw
Edgar
Edwar
Elmh
Emery
Falco
Farrar
Fergus
Fisher
Foley,
Forbes
Fortu
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Garro
Gibson
Gilles
Gilmo
Gould
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Grala
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Grant,
Gray,
Hanah
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Henry
Henw
Heyla
Hobbe
Hodgs
Holme
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Second Year.—Continued.

Clarke, J. A.	London.	Hunt, Miss B. M.	Toronto.
Clarke, J. T. A.	Lindsay.	Hutcheson, J. F.	Owen Sound.
Clute, A. R.	Belleville.	Jackman, D. S.	Kilsyth.
Coats, R. H.	Clinton.	Jackman, W.	Kilsyth.
Colclough, T. A.	Lanark.	Jackson, J. A.	Innisfil.
Combe, Miss J.	Clinton.	Jacombe, F. W. H.	Guelph.
Cooper, G.	Richmond Hill.	Jennings, J.	Toronto Junction.
Cosens, A.	Seaforth.	Johnston, D.	Walton.
Couch, I.	Tyrone.	Johnston, F. K.	Toronto.
Cowan, Miss G. I.	Toronto.	Kelly, H.	Aldboro'.
Craig, E. E.	Carsonby.	Kennedy, K.	Bonanton.
Cranston, Miss E. M.	Bryanstown.	Kilmer, E. E.	Aylmer.
Dandy, W. P.	Cassburn.	Kingstone, A. C.	Toronto.
Dewar, A. M.	Toronto.	Lafferty, Miss I. S. E.	Chatham.
Dobell, A. C.	Quebec.	Laidlaw, W. C.	Toronto.
Dodds, T.	Beaufort.	Laird, Miss L. R.	London.
Doidge, T. C.	Toronto.	Lander, W. J.	Toronto.
Duncan, Miss M. G.	Richmond Hill.	Langford, Miss N.	Toronto.
Duncan, N. McL.	Auburn, N.Y.	Lapscott, C. E. S.	Brantford.
Duprau, G. O.	Rednersville.	Lapsley, N. T. B.	Toronto.
Eastwood, Miss M. O.	Whitby.	Lennox, G. W.	Thornton.
Edgar, Miss M. E.	Toronto.	LeRossignol, Miss A. E.	Toronto.
Edwards, E. W.	Sarnia.	Lillie, R. S.	Toronto.
Elmhurst, J. R.	Peterboro'.	Little, A. T.	London.
Emery, J. W.	New Sarum.	Little, J. W.	Trenton.
Falconbridge, J. D.	Toronto.	Lloyd, F. N.	Newmarket.
Farrar, W. H.	Orillia.	Mallet, A. W.	Lindsay.
Ferguson, J. A.	Eversley.	Martin, J. M.	Listowel.
Fisher, A. E.	Athens.	Megill, W. H. T.	Aurora.
Foley, H. W.	Bowmanville.	Meighen, A.	St. Mary's.
Forbes, W. B.	Sarnia.	Meldrum, A. E.	Ormond.
Fortune, Miss A. M.	Toronto.	Merrick, J. G.	Toronto.
Foster, J. M.	Waterford.	Millar, Miss R.	Toronto.
Garrow, C.	Goderich.	Milligan, J. C.	Newington.
Gibson, J. G.	Ottawa.	Mohr, A. S.	Arnprior.
Gillespie, Miss E. L.	Pictou.	Mollins, V. G.	Burgessville.
Gilmour, J. W.	Brockville.	Montjoy, J. A.	Haydon.
Gould, G. F.	Toronto.	Moore, S. C.	Lindsay.
Gould, M. G. W.	Oshawa.	Moore, W. H.	Tyrone.
Graham, Miss E. M.	Owen Sound.	Morris, E. G.	Toronto.
Graham, H. A.	St. Mary's.	Moshier, D. D.	Toronto.
Graham, L. H.	Paisley.	McArthur, M.	Dutton.
Graham, W. H.	Nelles' Corners.	McBean, W. J.	Toronto.
Grant, B. D.	Mull.	MacCallum, D. A.	Brantford.
Grant, R.	St. Mary's.	MacCallum, J. B.	Dunnville.
Gray, A. C.	Komoka.	McClellan, C. W.	Toronto.
Hanahoe, Miss A. G.	Lindsay.	McClellan, W. A.	Toronto.
Hansford, W. F.	Toronto.	McConnell, R. C.	Moreswood.
Henry, G. S.	Toronto.	McConachie, Miss C.	Toronto.
Henwood, G. B.	Port Hope.	McCullagh, Miss A.	Cobourg.
Heyland, E. R.	Holbrook.	McCullagh, Miss D.	Cobourg.
Hobbs, W. R.	London.	McCutcheon, F. W. C.	Thorndale.
Hodgson, J. E.	Cranston.	McDermott, G.	Brockville.
Holmes, J. H.	Nelles' Corners.	McFayden, D.	Toronto.
Howard, O. W.	Watford.	MacGillivray, A. H.	Port Elgin.
Howland, G. W.	Toronto.	McIntyre, Miss M. L.	Strathroy.

Second Year.—Continued.

McKay, A. S.	Toronto.	Schilling, Miss E. C.	Toronto.	Abbott
MacKay, W. A.	London.	Scott, A. M.	Caistorville.	Aikins
McKenzie, A. J.	Lucknow.	Scott, G. A.	Forest.	Allin,
MacKinnon, W. A.	Grimsby.	Scott, T. W.	Mt. Forest.	Bailey,
MacLaren, W. A.	Toronto.	Seegmiller, Miss E.	Walkerton.	Baird,
McLean, J. S.	Port Hope.	Seely, W.	Port de Grave, Nfld.	Barber.
McLeish, J.	Deer Park.	Shaw, Miss L.	Lucan.	Barker
McMahon, F. O.	Toronto.	Shaw, M. A.	Merton.	Barnes,
McNeely, Miss L.	Carleton Place.	Shields, A. J.	Caistorville.	Beach,
McNeece, T. I.	Sandwell.	Sherwood, Miss L.	Napanee.	Bell, B.
MacPhail, W. D.	Orillia.	Shier, J. W.	Cannington.	Bell, R.
McRobbie, D. G.	Shellburne.	Sinclair, A. G.	Mount Pleasant.	Bergey,
McVear, A.	Mull.	Sinclair, Miss M.	Walkerton.	Bowes,
McWilliams, R. F.	Peterboro'.	Sinclair, N.	Walkerton.	Bowlby
Neelands, Miss F. H. M.	Lindsay.	Smart, Miss S. C.	Brookville.	Bowman
Nichol, W. W.	Stratford.	Smith, A. W.	Whitby.	Boyce,
Nurse, F.	Toronto.	Smith, Miss E.	Whitby.	Boyd, I.
O'Flynn, P. W.	Madoc.	Spotton, A.	Gorrie.	Brun,
Oswald, T.	Jangtville.	Stanbury, J. G.	Bayfield.	Brown,
Page, R. B.	Concord.	Steer, A. B.	Niagara Falls.	Brown,
Parry, R. Y.	Dunnville.	Stewart, A. M.	Stratford.	Brown,
Paterson, C. G.	Brantford.	Stringer, A. J.	London.	Brown,
Patterson, F. W.	Oshawa.	Symington, Miss M.	Windsor.	Burbidge
Pearce, F. S.	Toronto.	Taylor, J. G.	Mapleton.	Burchill
Percival, Miss A.	Merrickville.	Taylor, Miss L. E.	Toronto.	Burns, I.
Perrin, Miss E.	Lindsay.	Thompson, A. E.	Flesherton.	Burns,
Perry, Miss J.	Galt.	Thompson, D. W.	Flesherton.	Caesar,
Perry, J. R.	Toronto.	Thompson, P. J.	Strathroy.	Campbell
Preston, J. W.	Napanee.	Towers, R. I.	Sarnia.	Campbell
Race, C. E.	Port Hope.	Tucker, Miss A. B.	Owen Sound.	Campbell
Raddon, A. J.	Norwood.	Van Every, J. F.	Peterborough.	Campbell
Rae, W. A.	Theford.	Voaden, J.	St. Thomas.	Carroll,
Reith, P.	Claremont.	Walker, P. A.	Calmachie.	Chaisgr
Renison, R. J.	Port Arthur.	Wallace, M. W.	Puce.	Chant,
Rice, John	Cromarty.	Wallace, R. B.	Simcoe.	Chapman
Richey, Miss L.	Toronto.	Wallis, W.	Toronto.	Chase, M.
Riddell, Miss A. R.	Toronto.	Wanless, Miss I. M.	Toronto.	Chisholm
Riordan, C. C.	Toronto.	Watt, Miss L.	Guelph.	Clark, F.
Roach, W. J.	Toronto.	Weeks, J. P.	Uxbridge.	Clark, V.
Roberts, W. M.	Dundalk.	Weese, F. H.	New York, N.Y.	Clayton,
Robertson, D. M.	Shakespeare.	Weidenhammer, F. J.	Elmira.	Clubine,
Robinson, A. H.	Peterboro'.	Weidenhammer, W. B.	Elmira.	Cockburn
Robinson, P. J.	Toronto.	White, Miss J. O.	Woodstock.	Coleman
Ross, R. J.	Braemar.	White, R. W. K.	Hamilton.	Conn, H.
Rowland, J. W.	Toronto.	Wickham, Miss E.	Kincardine.	Conolly,
Rush, M. L.	Aurora.	Wilson, Miss A. C.	Warkworth.	Cowan,
Rutherford, Miss E. L.	Aurora.	Wilson, E.	Toronto.	Crawford
Ruthven, J. D.	Dutton.	Wilson, M. J.	Stratford.	Cronyn,
Rykert, H. F.	St. Catharines.	Wood, W. A.	Peterborough.	Cross, C.
Sampson, Miss B.	Toronto.	Wright, W. J.	St. Mary's.	Crysler,
Sampson, Miss N.	Toronto.	Wrinch, F. S.	Toronto.	Culbert,
Saunders, E. J.	Petrolen.	Young, F. A.	Toronto.	Darling,
				Delmage
				Dent, W.

Third Year.

Abbott, A. H.	Brockville.	Dillabough, Miss A. F.	Dundela.
Aikins, Miss I. D.	Toronto.	Dingle, Miss G. K.	Oshawa.
Allin, C. D.	Mount Albert.	Douglas, Miss J. E.	Chatham.
Bailey, J.	Shrigley.	Dowd, Miss J.	Toronto.
Baird, J. W.	Blenheim.	Duncan, G. P.	Toronto.
Barber, J.	Monticello.	Durand, Miss E. A.	Toronto.
Barker, Miss R.	Toronto.	Eakin, T.	Toronto.
Barnes, J.	Toronto.	Field, J. M.	Smithville.
Beach, M. W.	Iroquois.	Fielding, J. H.	Hamilton.
Bell, B. C.	St. George.	Findlay, W. A.	Toronto.
Bell, R. H.	Glanford.	Findlay W. B.	Toronto.
Bergey, A. E.	Mannheim.	Forbes, J. W.	Stratford.
Bowes, Miss M.	Brantford.	Ford, H. E.	Norwood.
Bowly, D. S.	Berlin.	Fraser, Miss M. E. N.	Barrie.
Bowman, D.	Berlin.	Freeman, C. W.	Freeman.
Bowman, H. M.	Berlin.	Gardner, J. E.	Newmarket.
Boyce, J. F.	Dartford.	Gillis, E.	Toronto.
Boyd, R.	Russell.	Graham, Miss G.	Eudora.
Brun, W. A.	Chesley.	Grant, Miss L.	Brantford.
Brown, C. H.	Carleton Place.	Green, L. A.	Sheffield.
Brown, L.	Owen Sound.	Greenwood, T. H.	Whitby.
Brown, W. C.	Tilsonburg.	Griffith, J.	Wallace.
Burbidge, H. A.	Ottawa.	Hamilton, A. R.	Palmerston.
Burchill, J.	Ashburn.	Hamilton, R. M.	Toronto.
Burns, Miss H. K.	Toronto.	Harding, Miss N. M.	St. Mary's.
Burns, W. E.	Toronto.	Hardy, A. C. W.	Brantford.
Caesar, L.	Mono Road.	Hargrave, H. G.	Toronto.
Campbell, Miss A. V.	Cobourg.	Harper, H. A.	Barrie.
Campbell, D. A.	Russell.	Harris, P. G.	Watford.
Campbell, L. C.	Vankleek Hill.	Hazen, G. N.	Walsingham Centre.
Campbell, W. A.	Clifford.	Hendry, W. B.	Toronto.
Carroll, W. S.	Erie, Pa.	Hewson, J. W.	Toronto.
Chaisgreen, C.	St. Thomas.	Hilliard, T. H.	Toronto.
Chant, W. A.	Corbett.	Hillock, Miss J. S.	Toronto.
Chapman, M. R.	Toronto.	Hockley, E. F.	England.
Chase, Miss R. W.	Orillia.	Hollinrake, C. E.	Milton.
Chisholm, A. M.	Ottawa.	Horning, Miss C. I.	Brantford.
Clark, H. A.	Cedar Grove.	Hosking, E. R. C.	Toronto.
Clark, W.	Hatherton.	Husband, A. J.	Holland Centre.
Clark, W. G.	Colborne.	Hyland, I. L.	Seattle, Wash.
Clayton, Miss V. E.	Listowel.	Ivey, T. J.	Campbellford.
Clubine, J. O.	Thornhill.	Jones, G. M.	Port Perry.
Cockburn, Miss M.	Beaverton.	Kerr, Miss A. K.	Woodstock.
Coleman, H. T.	Toronto.	Kestin, Mrs. A.	Toronto.
Conn, H.	Kemptville.	King, W. L. M.	Toronto.
Conolly, W. J.	Coldwell, P. Q.	Kingstone, H. G.	Toronto.
Cowan, Miss J.	Toronto.	Kirkwood, W. A.	Brampton.
Crawford, A. W.	Galt.	Kitching, J. W.	Corwhin.
Cronyn, W. H.	London.	Laidlaw, T.	Mayfield.
Cross, C. W.	Madoc.	Laing, A. A.	Dundas.
Cryser, W. S.	Delhi.	Laing, Miss L. A.	Dundas.
Culbert, O. E.	Ottawa.	Lamb, G. L.	Ottawa.
Darling, Miss E. L.	Toronto.	Lynde, C. J.	Madoc.
Darling, Miss J.	Toronto.	Martin, R.	Massie.
Delmage, F. W.	St. Mary's.	Mason, Miss R. E. C.	Toronto.
Dent, W. A.	Mitchell.	Megan, C. P.	Stratford.

Third Year.—Continued.

Merkley, W. A.	North Williamsbury.	Rowson, Miss A.	Burlington.
Miller, Miss M. G.	Pembroke.	Rush, W. J.	Clifford.
Mills, G. K.	Tara.	Russell, J. W.	The Grove.
Mine, G.	Drayton.	Saunders, F. A.	Ottawa.
Moir, J. A.	Dunnville.	Scott, P.	Barnett.
Moir, Miss K. E.	Dunnville.	Scott, R. G.	Aurora.
Moloney, E. H.	West Virginia.	Scott, W. A.	Ottawa.
Montgomery, J.	Pine River.	Scott, W. D.	Ridgetown.
Mowbray, W.	Botany.	Scovell, H. R.	Kemptville.
Murray, Miss H. R.	Aylmer.	Service, C. W.	Aulsville.
Murray, J. L.	Kincardine.	Shannon, S.	Atwood.
McArthur, J.	Durham.	Sharpe, S. S.	Uxbridge.
McCool, J.	Toronto.	Shearer, C. E.	Simcoe.
Macdonald, D. B.	Toronto.	Sheraton, R. W. W.	Toronto.
McDonald, J. H.	Toronto.	Silverthorpe, W. L.	Windham Centre.
McDonald, N. A.	Sutton, West.	Simmons, W. C.	Tara.
Macdonald, W. J.	Ottawa.	Siuclair, P. F.	Melbourne.
Macdougall, Miss I. J.	Cannington.	Sipprell, W. T.	Richwood.
McEwen, M. W.	Brantford.	Smith, J. C.	Rathbun.
McGregor, Miss M. C.	Toronto.	Soanes, P. R.	Lindsay.
McKim, W. A.	Kincardine.	Spence, Miss F.	Manchester.
McKinnon, R. L.	Everton.	Spence, H. S.	Norwood.
McKitrick, A. D.	Orangeville.	Standing, G. M.	Burford.
McLean, W.	Ballinafad.	Steen, Miss C. A.	Toronto.
McLeay, C. W.	Watford.	Stennett, J. W.	St. Mary's.
McLeod, W.	Seaforth.	Stephens, L. F.	Teeswater.
McLennan, M. C.	Toronto.	Stewart, Mrs. I. M.	Toronto.
Macmillan, H. S.	Ottawa.	Stewart, J. H.	Toronto.
McNiece, J.	Carsonby.	Street, Miss J. A.	Toronto.
Nelles, Miss L. F.	Toronto.	Stubbs, S. J.	Stratford.
Northrup, Miss F.	Aylmer.	Sutherland, Miss M.	Toronto.
Northwood, Miss M. A.	Ottawa.	Tamblin, W. T. F.	Whitby.
O'Brien, F. J. V.	Rochester, N.Y.	Terrill, A. J.	Trenton.
O'Brien, L. J.	Laskay.	Tier, W.	Motherwell.
O'Rourke, Miss M.	Toronto.	Torrance, J. B.	Toronto.
Osborne, J. R.	Westmeath.	Toye, A. J.	Toronto.
Paterson, J. J.	Valens.	Trench, W. W. A.	Richmond Hill.
Paterson, J. L.	Ingersoll.	Tucker, J. A.	Owen Sound.
Palmore, L. W.	Elora.	Varley, F. W.	St. Catharines.
Pearson, A.	Hamilton.	Warren, H. E.	Elgin.
Pearson, F. L.	Cassel.	Watson, Miss L. L.	Toronto.
Pierson, W. H.	Toronto.	Werrett, Miss A.	Simcoe.
Richardson, W. G.	Varna.	Wicher, E. A.	Toronto.
Robertson W. A.	Rothesay.	Wickens, A. E.	Brantford.
Robinson, R. A.	Annapolis, N.S.	Williams, W. H.	Port Perry.
Robinson, S. H. B.	Orillia.	Wilson, J.	Macville.
Robinson, T. R.	Toronto.	Wilson, T. M.	Atwood.
Ronald, W. B.	Toronto.	Withrow, Miss F. E. W.	Toronto.
Rose, Miss N.	Morrisburg.	Yeomans, Miss E. L.	Toronto.
Rosebrugh, Miss A.	Toronto.	Young, G.	Erin.

Agnew,
 Alway,
 Andrews,
 Ayeerst,
 Barber,
 Barnum,
 Beatty,
 Bell, W.
 Bigelow,
 Biggar,
 Blackwe,
 Blyth, J.
 Bond, A.
 Boulthec,
 Boulton,
 Boulton,
 Bowering,
 Bowes,
 Brown, I.
 Brown, J.
 Brown, J.
 Burns, V.
 Burton,
 Campbell,
 Carpenter,
 Chrysler,
 Clarke, J.
 Clary, J.
 Cluff, M.
 Colling,
 Cook, M.
 Coutts, I.
 Craig, B.
 Cram, G.
 Cram, A.
 Cross, M.
 Currie, F.
 deBeaure,
 Decow, J.
 Dickie, I.
 Dunbar,
 Duncan,
 Dundas,
 Eddy, A.
 Fitzgerald,
 Foucar,
 Fraser, J.
 Frost, F.
 Fry, F.
 Gillespie,
 Gilmour,
 Goodwill,
 Graham,
 Grant, M.
 Hales, B.
 Hall, A.

Fourth Year.

Agnew, Miss J.	Toronto.	Hamilton, J. C.	Stratford.
Alway, F. J.	Victoria.	Hamilton, Miss L. M.	Toronto.
Andrews, R. T.	Toronto.	Hannahson, J. J.	Orangeville.
Ayearst, J. A.	London.	Harrison, E. S.	Toronto.
Barber, Miss I. M.	Cobourg.	Harvey, B. C. H.	Wafford.
Barnum, H.	Aylmer.	Henwood, Miss M. E.	Welcome.
Beatty, A., B.A.	Kirkton.	Hollinrake, F. W.	Milton.
Bell, W. N.	Orangeville.	Howell, W. B.	Goderich.
Bigelow, F. E.	Lindsay.	Hughes, Miss N.	Toronto.
Biggar, H. P.	Belleville.	Hughes, V. J.	Toronto.
Blackwell, Miss E. E.	Toronto.	Hunt, T. A.	Talbotville.
Blyth, J. L.	Ottawa.	Hunter, Miss C. C.	Toronto.
Bond, A. A.	Toronto.	James, D. D.	Toronto.
Boulbee, W. M.	Toronto.	James, W. E.	Bowmanville.
Boulton, Miss E. R.	Toronto.	Jeffrey, Miss C. E.	Toronto.
Boulton, Miss M. R.	Toronto.	Kappele, C. W.	Toronto.
Bowering, J.	Lucknow.	Kenrick, F. B.	Toronto.
Bowes, Miss L. A.	Toronto.	Kerr, H. T.	Toronto.
Brown, H. W.	Niagara Falls, S.	Knox, W. J.	St. Mary's.
Brown, J. H.	Markdale.	Lamb, G. L.	Ottawa.
Brown, J. J.	Toronto.	Langley, E. F.	Toronto.
Burns, W. H.	Toronto.	Lash, W. M.	Toronto.
Burton, W.	Toronto.	Lawson, Miss E. M.	Toronto.
Campbell, D. L.	Woodville.	Lehmann, C. K.	Orillia.
Carpenter, A. A.	Hamilton.	Levy, G. H.	Hamilton.
Chrysler, M. A.	Toronto.	Lewis, H. T.	Peterboro'.
Clarke, F. H.	Colborne.	Lindsay, G. A.	Ottawa.
Clary, J. H.	Thornhill.	Lingelbach, W. E.	New Hamburg.
Cluff, Miss E. M.	Ottawa.	Little, H. A.	Woodstock.
Colling, J. K.	Mitchell.	Livingstone, Miss L. I.	Toronto.
Cook, Miss M.	St. Thomas.	Lucas, T. A.	Toronto.
Coutts, R. D.	Thamesville.	Lye, Miss F. M.	Toronto.
Craig, B. A. C.	Toronto.	Manning, R. E.	Exeter.
Cram, G. L.	Toronto.	Maybury, W. F.	Parkhill.
Craw, A. W.	Barrie.	Marshall, E. E.	St. Catharines.
Cross, Miss B.	Madoc.	Martin, J. A.	Port Dover.
Currie, P. W.	Strathroy.	Martin, R. G.	Dundas.
deBeauregard, Miss E. T.	Toronto.	Matheson, Miss W.	Toronto.
Decow, Miss N.	Ridgetown.	Miller, Miss M. B.	St. Mary's.
Dickie, R. W.	Hyde Park.	Moore, W. H.	Toronto.
Dunbar, G. E.	Deer Park.	Moss, C. A.	Toronto.
Duncan, D. M.	Parry Sound.	McCaug, J.	Collingswood.
Dundas, A. A.	Deer Park.	MacCallum, W. G.	Dunville.
Eddy, A. C.	Scotland.	McCrae, J.	Guelph.
Fitzgerald, J. P.	Oakville.	McCulloch, H.	Clifford.
Foucar, W. K.	Tottenham.	McKay, D.	Faisley.
Fraser, J. H.	Georgetown.	McLean, S. J.	Rosemont.
Frost, F. H.	Belleville.	McLennan, D.	Stratford.
Fry, F. D.	Selkirk.	Macmillan, K. D. W.	Mount Forest.
Gillespie, W. H.	Hamilton.	MacMurchy, Miss M.	Toronto.
Gilmour, W. A.	Brockville.	MacPherson, A. W.	Toronto.
Goodwillie, F. B.	Georgetown.	Macpherson, W. E.	Prescott.
Graham, J. R.	Nobleton.	McVannel, J. B.A.	St. Mary's.
Grant, Miss J.	St. Mary's.	Neilson, Miss H.	Toronto.
Hales, B. J.	Apsley.	Nichol, R.	Listowel.
Hall, A.	Drumbo.	Nivins, C.	Dungannon.

Fourth Year.—Continued.

O'Malley, H. K. A.	Fort Erie.	Stewart, C. C.	Owen Sound
Paul, A. J.	Bradford.	Stone, S. G.	Collingwood.
Pease, W. H.	Toronto.	Taylor, Miss F.	Toronto.
Quantz, J. O.	Toronto.	Terry, D. W.	Mount Albert.
Ran, J. F.	New Hamburg.	Thompson, J. F.	Toronto.
Reid, E. E.	London.	Topping, Miss E.	Woodstock.
Revell, D. G.	Tyroconnell.	Trees, Miss C.	Toronto.
Robertson, Miss C. C. M.	Toronto.	Trotter, W. C.	Toronto.
Robertson, Miss M. L.	Brampton.	Watson, O. K.	Ridgetown.
Roxburgh, F. D.	Norwood.	Webster, J. D.	Toronto.
Royce, G.	Toronto.	Weir, Miss A.	Arkona.
Rudlen, G. W.	Toronto.	Whyte, R.	Brighton.
Simple, H. A.	Fergus.	Wickett, S. M.	Toronto.
Shepard, A. A.	Cobourg.	Wigle, Miss L. A.	Essex.
Sissions, H. J.	Barrie.	Wilson, Miss A.	Toronto.
Skinner, Miss K. C.	Guelph.	Wilson, G.	Newton Robinson.
Snell, J. F.	Edmonton.		

Number of Students in the First year	255
Number of Students in the Second year	250
Number of Students in the Third year	212
Number of Students in the Fourth year	145
Total	862

B. Stu

Addy, A.
 Anderson,
 Anderson,
 Balmer, G.
 Beatty, H.
 Bell, E. J.
 Boyce, J. J.
 Burgess, A.
 Campbell,
 Clark, W.
 Coad, W.
 Corcoran,
 Culbertson
 Cummings
 Cunningha
 Curado, J.
 Delmage, I.
 Elliott, J.
 Elliott, W.
 Ferster, F.
 Grant, J.
 Grant, R.
 Gould, S.
 Hardy, E.
 Hassard, G.
 Heath, H.
 Henderson
 Hough, H.
 Hume, Cha
 Jackson, C.
 Klotz, J.
 Lundy, J.
 Matthews,
 Malcolmson
 Maybury,
 Mickleboro

Addison, V.
 Arkell, E.
 Beasley, W.
 Bedell, T. C.
 Beemer, H.
 Bier, T. H.
 Boyle, J. F.
 Buchanan,
 Burke, J. A.
 Burt, G. S.
 Callias, W.
 Charlton, S.
 Collins, E.
 Cooke, G. E.

B. Students in Medicine of the University of Toronto:

First Year.

Addy, A. H.	Tapleytown.	Morgan, J. A.	Walkerton.
Anderson, A. H. K.	Ottawa.	Morton, J. P.	Hamilton.
Anderson, F.	Toronto.	Mullin, J. H.	Hamilton.
Balmer, Geo.	Inglewood.	MacCallum, W. G.	Dunnville.
Beatty, H. A.	Toronto.	McCormick, J.	Toronto.
Bell, R. J.	St. George.	McDonald, A. J.	Caledonia.
Boyce, J. F.	Dartford.	McKay, W. S.	Ingersoll.
Burgess, A. McT.	Bala.	McKechnie, J.	Brampton.
Campbell, G. J.	Belwood.	McLaren, P. F.	Guelph.
Clark, W. J.	Brampton.	McLaren, W. A.	Toronto.
Coad, W. E. R.	Wingham.	McLeay, C. W.	Watford.
Corcoran, J. A.	Toronto.	McGillivray, D.	Uxbridge.
Culbertson, R.	Durham.	McNamara, A. T.	Fergus.
Cummings, J. A.	Bond Head.	McNulty, F.	St. Catharines.
Cunningham, W. F.	Walkerton.	McWilliams, V. H.	Peterboro.
Curado, J. G.	Toronto.	Nichol, R.	Listowel.
Delmage, F. W.	St. Marys.	O'Brien, L.	Laskey.
Elliott, J. H.	Hampton.	Pallister, W. T.	Guelph.
Elliott, Wm.	Thessalon, Algoma.	Patterson, D.	New Westminster, B.C.
Erster, F. J. R.	Palmerston.	Piersol, W. H.	Toronto.
Grant, J.	Beaverton.	Radcliffe, S. W.	St. Marys.
Grant, R.	St. Marys.	Reid, J. B.	St. George.
Gould, S.	London.	Ritchie, W. J.	Beaverton.
Hardy, E. A.	Brantford.	Ross, N.	Toronto.
Hassard, G. A.	Valentine.	Royce, G.	Davenport.
Heath, H. L.	Toronto.	Rutherford, H.	Beaverton.
Henderson, J. G.	Hamilton.	Scott, W. A.	Ottawa.
Hough, H.	Toronto.	Struthers, W. E.	Goderich.
Hume, Chas.	Toronto.	Umphrey, W. H.	Udora.
Jackson, G. H.	Exeter.	Walters, J. J.	Elora.
Klotz, J. E.	Ottawa.	Webb, R. F.	Toronto.
Lundy, J. E.	Preston.	Wesley, W.	Newmarket.
Matthews, R. J.	Ashton.	White, W. R.	Toronto.
Malcolmson, G. H.	Parkdale.	Wickens, A. E.	Brantford.
Maybury, W. F.	Parkhill.	Wright, J. S.	Toronto.
Mickleborough, E. H.	St. Thomas.	Yeomans, W. L.	Mount Forest.

Second Year.

Addison, W. L. T.	Toronto.	Connolly, B. G.	Trenton.
Arkell, E. H.	St. Thomas.	Crawford, D. T.	Thedford.
Beasley, W. J.	Weston.	Dales, F. A.	Dumbarton.
Bedell, T. C.	Hillier.	Ewers, A. W.	Toronto.
Beemer, H. G.	Toronto.	Gillies, J. M. H.	Teeswater.
Bier, T. H.	Brantford.	Goldie, W.	Ayr.
Boyle, J. F.	Toronto.	Graef, C.	Clifford.
Buchanan, D.	Galt.	Gray, A.	Niagara Falls.
Burke, J. A.	Amherstburg.	Gwyn, N. B.	Dundas.
Burt, G. S.	Killsburg.	Harvey, B. C. H.	Watford.
Callias, W. F.	Morrison.	Henderson, W. J.	Little Britain.
Charlton, S. E.	Galt.	Hicks, E. S.	Waterford.
Collins, E.	Princeton.	Hodgins, A. G.	Lucan.
Cooke, G. E.	Morrisburgh.	Hodgins, F. W.	Lucan.

Second Year.—Continued.

Hooper, E. M.	Toronto.	Partridge, A. W.	Crown Hill.
Jones, W. W.	Mount Forest.	Rannie, J. A.	Chatham.
Macklin, A. H.	Stratford.	Revell, D. G.	Trycnell.
Mallock, W. J. O.	Meaford.	Rivers, J. H.	Sarnia.
Marquis, J. A.	Brantford.	Robinson, E. L.	Toronto.
Miller, J. H.	Toronto.	Roberts, E. L.	Lynedoch.
Moore, R.	Maple.	Rothwell, E. J.	Regina.
More, T.	Kirkton.	Ross, H. H.	Brucefield.
Morris, J. S.	Oshawa.	Silcox, W. L.	Delhi.
McCaig, A. S.	Collingwood.	Smith, D. K.	Toronto.
McCallum, D.	Exeter.	Somers, R. H.	Toronto.
McCarter, J. M.	Almonte.	Steele, F. C.	Orillia.
McCosh, E. A.	Lucan.	Sutherland, J. A.	Toronto.
McDonald, Wm.	Galt.	Tait, N. J.	St. Thomas.
McInnis, H.	Vittoria.	Thomson, C. G.	Hiawatha.
McKee, C. S.	Peterborough.	Thorne, J. S.	Belleville.
McKibbin, R. E.	Toronto.	Tyndall, J. E.	Richmond Hill.
McKenzie, D. C.	Durham.	Weaver, W. J.	Toronto.
McLean, A. K.	Harriston.	Welch, G.	Tyrocnell.
Nichol, W. H.	Brantford.	Westman, S. H.	Toronto.
Norris, J. A.	St. Catharines.	White, E. B.	Chatham.

Third Year.

Amyot, R. J.	St. Thomas.	Langrill, A.	Ohswéken.
Bean, S. B.	Bright.	Lawrason, L.	Dundas.
Caven, J. G. (B.A.)	Toronto.	Merritt, A. K.	Scotland, Ont.
Chapin, C. D.	Brantford.	Millar, H. W.	Orillia.
Chapman, W. J.	Toronto.	Millechamp, G. E.	Toronto.
Charles, Fred.	Pembroke.	Morris, F. W.	Victoria, B.C.
Currie, M.	Acton.	Musson, Geo.	Toronto.
Delahey, T. C.	Pembroke.	McArthur, W. T.	Moorfield.
Dillabough, F. H. W.	Hamilton.	McConnell, F.	Toronto.
Downey, R. A.	Toronto.	McKay, T. W. G.	Toronto.
Downing, A.	Woodstock.	McKechnie, W. B.	Aberdour.
Elliott, A. S.	Scotch Block.	McLachlan, A. R.	Rothesay.
Farr, C. J.	Toronto.	McNiven, J. A.	Dorchester.
Fleming, S. E.	Morningdale Mills.	McPhail, M.	Songa.
Gallow, W. F.	Toronto.	McPherson, D. W.	Toronto.
Gibson, Allan	Orton.	McQuarrie, A. K.	Orangeville.
Grosett, F. G.	Kingston, Jamaica.	Noble, R. T.	Norval.
Haist, E. A.	Ridgeville.	Northwood, A. E.	Chatham.
Hall, G. W.	Little Britain.	Orr, C. A.	Goderich.
Hird, Wm.	Uxbridge.	Paine, Henry	Toronto.
Hunter, A. J.	Toronto.	Parker, W. M.	Toronto.
Hutchison, J. N.	Toronto.	Paterson, H. McL.	Rodney.
Jeffs, T. W.	Queensboro.	Pratt, Jno.	Heathcote.
Jones, W. W.	Mount Forest.	Ratz, J. H.	Elmira.
Keith, W. D.	Toronto.	Rice, W. H.	St. Catharines.
Kellam, E. T.	Seaforth.	Richardson, E. K.	Fleasherton.
Kirby, T. W.	Maple.	Rolls, J. A.	Chatham.
Klotz, M. O.	Ottawa.	Simpson, G. R.	Hamilton.
Krausmann, Geo.	Elora.	Shedham, Jno.	Newark.
Lancaster, J. R.	Culloden.	Shehan, J.	Sarnia.

Sloane, J. G.
Small, A. A.
Smith, M. J.
Stephen, W.
Thom, W.

Agnew, T.
Aiken, A. W.
Alexander,
Armour, D.
Arrell, Wm.
Badgerow, C.
Ball, W. A.
Becket, Jas.
Boyd, W. B.
Bull, J. H.
Campbell, F.
Colman, F.
Coulthard, V.
Crain, W. J.
Crawford, J.
Curtis, J. D.
Cuthbertson
Douglas, W.
Ferris, G. M.
Fiset, L. O.
Fisher, E. I.
Ford, J. W.
Fraser E. A.
Galloway, A.
Gardner, A.
Graham, E.
Gray, G. B.
Greenwood,
Guelph, H.
Hackett, W.
Harris, N.
Hastings, R.
Hodgson, T.

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Tot

Third Year.—Continued.

Sloane, J. G.	Annan.	Webb, A.	Kettleby.
Small, A. A.	Toronto.	White, E. A.	Toronto.
Smith, M. B.	Glanford.	Young, G. S.	Markham.
Stephen, W.	Toronto.	Zamstein, J. M.	Elcho.
Thom, W.	Dumbarton.		

Fourth Year.

Agnew, T.	Belgrave.	Johnston, H. A.	Washington, D.C.
Aiken, A. W.	Orangeville.	Jones, A. H.	St. Catharines.
Alexander, W. H.	Bolton.	Laidlaw, W. C.	Toronto.
Armour, D. J.	Toronto.	Lawson, J. A.	Brampton.
Arrell, Wm.	Caledonia.	Laycock, R. G.	Embro.
Badgerow, G. W.	Toronto.	Lipsey, R. M.	St. Thomas.
Becket, Jas.	Thamesville.	Mencke, J. R.	Toronto.
Ball, W. A.	Toronto.	McCollum, W. J.	Toronto.
Boyd, W. B.	Uxbridge.	McCrae, T.	Guelph.
Bull, J. H.	Weston.	Mellwraith, K. C.	Hamilton.
Campbell, B.	Parkhill.	McIntosh, J. W. (B.A.)	Toronto.
Colman, F.	Toronto.	McClenahan, D. A.	Tansley.
Coulthard, W. L.	Toronto.	McKee, J. F.	Aurora.
Crain, W. E.	Brockville.	Northcott, W. S.	Belleville.
Crawford, Jno.	Toronto.	Park, Jno.	Fevershaw.
Curtis, J. D.	Middlemarch.	Porter, E. D.	Brantford.
Cuthbertson, H. A.	Wyoming.	Reazin, H. L.	Linden Valley.
Douglas, Wm.	Chatham.	Rutledge, H. N.	Streetsville.
Ferris, G. M.	Campbellford.	Segsworth, Jno.	Toronto.
Fiset, L. O.	Grand Forks, N. Dakota.	Shurie, J. S.	Trenton.
Fisher, E. B.	Frédricton, N.B.	Sinclair, H. H.	Walkerton.
Ford, J. W.	St. Mary's.	Sinclair, J. P.	Toronto.
Fraser E. A.	Hamilton.	Smith, F. W.	St. George.
Galloway, A.	Beaverton.	Smyth, C. E.	Toronto.
Gardner, A. E.	Belleville.	Stenhouse, J. (M.A., B.Sc.)	Toronto.
Graham, E. D.	Sutton West.	Stockton, F. W.	Woodstock.
Gray, G. B.	Elora.	Wallace, N. C.	Alma.
Greenwood, A. B.	Newmarket.	Wells, R. B.	Toronto.
Guelph, H.	Toronto.	White, J. A.	Oakwood.
Hackett, W. A.	Belfast.	Whitelaw, T. H.	Guelph.
Harris, N. McL.	Toronto.	Whitelock, F. C.	Gilford.
Hastings, R. J.	Guelph.	Wickett, Thos.	Belleville.
Hodgson, T. C.	Beaverton.		

Number of Students in the First year	72
Number of Students in the Second year	70
Number of Students in the Third year	69
Number of Students in the Fourth year	65
Total	276

C. Students of the School of Practical Science receiving instruction in the University of Toronto in Mathematics, Physics, and Chemistry :—

REGULAR STUDENTS.

1. CIVIL ENGINEERING :—

First Year.

Carpenter, H. S	Collingwood.	Martin, T	Wexford.
Crews, H. R	Pembroke.	Proudfoot, H. W	Toronto.
Handy, E. F	Emsdale.	Stewart, J. A	Renfrew.
Laing, W. F	Nassagaweya.	Webster, E. B	Toronto.

Second Year.

Armstrong, J	Wexford.	Meadows, W. W	St. Thomas.
Boswell, E. J	Peterboro.	Foussett, H. R	Earnia.
Dobie, J. S	Thessalon.	Robinson, F. J	Middlemarch.
Guernsey, F. W	Port Hope.	Sims, H. B	Prescott.
Gordon, J. P	Pembroke.	Lye, A. T	Toronto.
Johnson, G	Castleford.		

Third Year.

Barker, H. F	Collingwood.	Johnson, S. M	Stratford.
Bergey, A. E	Mannheim.	McTaggart, A. L	Appin.
Burton, T	Renfrew.	Rolph, H	Toronto.
Chalmers, J	Owen Sound.	Shields, J. D	Toronto.
Fraser, A. T	Pembroke.	Smith, A	Ridgetown.
Jones, J. E	Toronto.		

2. MECHANICAL AND ELECTRICAL ENGINEERING :—

First Year.

Allan, A. A	Toronto.	King, C. F	Toronto.
Blackwood, C. K	Toronto.	Lawrie, R. R	Bowmanville.
Bell, A	Toronto.	Macmillan, W. G	Hyde Park.
Campbell, G. M	Whitby.	Macbeth, C	London.
Fowler, C. P	St. Catharines.	MacMurchy, J. A	Hillsburg.
Gurney, W. C	Toronto.	McKechnie, R. S	Brighton.
Hartman, G	Clarksburg.	Mollins, C. B	Burgessville.
Haight H. V	Sparta.	Pease, H. O	Toronto.
Harman, O. E	Uxbridge.	Wickson, F. R	Toronto.
Jackson, T. C	Maple.	Wade, H. R	Port Hope.
Karn, F. H	Woodstock.	Watson, J. W	Ayr.

Blackwood
Brown, L.
Brodie, W.
Brelner, C.
Connor, A.
Elliott, H.
Gray, R. I.
Hull, H. S.
Hudspeth,
McGowan,

Angus, R.
Boyd, D. C.
Beauregard
Bucke, W.
Hanly, J.
Herald, W.
Job, H. E.

3. MINING

Bain, J. W.

McPherson

4. ARCHITECTURE

Forward, E.
McMaster,

Campbell, I.
Clark, J. T.

Ewart, J. A.

5. ANALYTICAL

Smith, V. S.

Second Year.

Blackwood, A. E	Toronto.	McKinnon, H. L.	Hillsburg.
Brown, L. L.	St. Catharines.	McKay, W. N.	Toronto.
Brodie, W. M.	Guelph.	Patterson, G. E.	Caledonia.
Brebnier, G.	Sarnia.	Stocking, F. T.	Newmarket.
Connor, A. W.	Berlin.	Moore, I. E.	St. Ives.
Elliott, H.	London.	Plummer, T. H.	Toronto.
Gray, R. L.	Toronto.	Tremaine, R. C. C.	Toronto.
Hull, H. S.	Caledonia.	Wood, H. T.	Toronto.
Hudspeth, E.	Caledonia.	Black, R. G.	Hamilton.
McGowan, J.	Ravenna.	Hewett, C. H.	Toronto.

Third Year.

Angus, R. W.	London.	Johnston, A. C.	Toronto.
Boyd, D. G.	Toronto.	Lash, N. M.	Toronto.
Beauregard, A. T.	Toronto.	Minty, W.	Toronto.
Bucke, W. A.	London.	Nicholson, C. J.	Hamilton.
Hanly, J. B.	Toronto.	Spotton, A. K.	Toronto.
Herald, W. J.	Hamilton.	Wright, R. T.	Owen Sound.
Job, H. E.	Waterdown.		

3. MINING ENGINEERING :—**First Year.**

Bain, J. W.	Toronto.	De Cew, J. A.	Essex.
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Second Year.

McPherson, C. W.	Cedar Springs
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4. ARCHITECTURE :—**First Year.**

Forward, E. A.	Iroquois.	Morphy, E. J.	Toronto.
McMaster, C. G.	Toronto.		

Second Year.

Campbell, R. J.	St. Catharines.	Harkness A.	Irena.
Clark, J. T.	Owen Sound.		

Third Year.

Ewart, J. A.	Ottawa.
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5. ANALYTICAL AND APPLIED CHEMISTRY :—**Second Year.**

Smith, V. S.	Port Hope.
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Fourth or Post-Graduate Year.

Ballantyne, H. F.	Ottawa.	Mitchell, C. H.	Brown's Corners.
Chewett, H. J., C.E.	Toronto.	McAllister, A. L.	Toronto.
Goodwin, J. B.	Grimsby.	James, D. D.	Toronto.
McPherson, A. J.	Galt.	Keele, J.	Toronto.
Squire, R. H.	Brantford.	Laidlaw, J. T.	Toronto.
Spiller, F. N.	Toronto.	Merrill, E. B., B.A.	Pictou.

SPECIAL STUDENTS.

1. CIVIL ENGINEERING :—

Jameson, A. P.	Paris.	Troup, G. E.	Buffalo, N. Y.
Parker, W. G.	Buffalo, N. Y.	Gibson, H. H.	Willowdale
Tate, E. F. R.	Lakefield.		

2. MECHANICAL AND ELECTRICAL ENGINEERING :—

Booth, F. E.	Toronto.	Roy, A.	Toronto.
Graham, W. A.	Owen Sound.	Roberts, W. M.	Lakefield.
Hamilton, R.	Winnipeg.	Sifton, E. I.	London.
Kerr, R.	Detroit, Mich.	Stacey, G. E.	Toronto.
Lee, E. P.	Toronto.	Shipe, R. R.	Toronto.
McCullough, A. W.	Toronto.	Shipe, E. F.	Toronto.
Policoka, H. B.	Toronto.	Wellington, E. S.	Toronto.
Rings, H. C.	Buffalo, N. Y.	Wright, T. D.	Owen Sound.

3. MINING ENGINEERING :—

Betty, H. K.	Leamington.	Moore, H. H.	Deer Park.
Evans, R. B.	Orillia.	Burwash, L. T.	Toronto.

4. ARCHITECTURE :—

Baker, H. C.	Hamilton.	Simpson, A. E.	Hamilton.
McKay, F. G.	Toronto.	Scott, W. F.	Dunnville.

5. CHEMISTRY :—

Taylor, A. P.	Toronto.	Arlagh, J. A.	Toronto.
McBride, C. A.	Oakville.		

6. ELECTRICITY :—

Thomson, R. W., B.A.Sc.	Toronto.	Moore, F. A.	Deer Park.
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SUMMARY.

Number of Students in Arts	863
Number of Students in Medicine	276
Number of Students in Applied Science	142
<hr/> Total number of Students	1281

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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 maintenance 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 its 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 University, 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 Medicine were trained in medical schools in affiliation with the University, and in the Faculty of Law the examinations were based upon text-books prescribed by the Senate, without teaching.

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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 federating 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; whilst further extensions are contemplated, or are already in progress, for other departments of science.

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 departments.

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 has been instituted, as a consequence of the affiliation of the Royal College of Dental Surgeons of Ontario. The College of Pharmacy has subsequently been admitted to affiliation, and, with the extension of the same privileges to the Toronto College of Music, a curriculum of study has been 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 Civil Engineer in the University. By a recent enactment of the Senate a curriculum has been prescribed leading to the degrees of Bachelor and Doctor of Pedagogy.

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.

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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 Brothers	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
Geo. A. Cox	5000 00	Province of Quebec	10000 00
Misa 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, Grassett & 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.

During the past year an association of ladies has been 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 1st June, 1894 :—

D. W. Alexander	\$ 25 00	W. B. Hamilton	\$100 00
Alfred Baker	100 00	J. G. Hume	100 00
Eliza M. Balmer	50 00	E. C. Jeffrey	25 00
Robert Balmer	50 00	Laura L. Jones	40 00
Hon. Edward Blake	500 00	Gertrude Lawler	50 00
Mrs. Edward Blake	500 00	President London	150 00
Hon. S. H. Blake	600 00	Mrs. Loudon	50 00
Mrs. A. F. Campbell	1 00	The Misses MacMurchy	25 00
Through Miss J. W. Carter,		J. Mavor	100 00
Elora	30 00	Moss, Hoyles & Aylesworth	50 00
The Misses Carty	50 00	Sheriff Mowat	25 00
W. Dale	100 00	G. H. Needler	25 00
A. T. DeLury	50 00	Mrs. Reeve	20 00
Gertrude Eastwood	25 00	Rowell & Hutchison	200 00
W. H. Fraser	100 00	Nellie Spence	25 00
Freer and Patterson	100 00	J. Squair	100 00
A Friend	5 00	Third Year Women Students	30 00
A Friend	5 00	Emily Thompson	25 00
Helene J. Gervais	1 00	R. & T. Watson	100 00
Mrs. Elmyra T. Hamilton	100 00	Rev. G. M. Wrong	50 00

Physical Laboratory.

The following contributions were made in the years 1885-86 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	15 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		

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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 Bursar 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	Moss Scholarship, by friends of the late Hon. Chief Justice Moss (Classics).....	\$2000 00
Dr. A. H. F. Barbour, of Edinburgh (The George Brown Scholarship in Medical Science).....	5055 56	Mary Mulock (Matriculation Classics).....	2000 00
Hon. Edward Blake (Matriculation Scholarships).....	15000 00	William Mulock (Classics, Mathematics).....	2000 00
Hon. Edward Blake (Political Science and Law).....	3750 00	His Royal Highness the Prince of Wales (Matriculation).....	900 00
George Brown Scholarship, by Friends of the late Hon. Geo. Brown (Modern Languages).....	1054 82	William Ramsay, of Bowlands, Scotland (Political Economy).....	1009 42
A. T. Fulton (not yet allocated).....	3000 00	Julius Rossin, of Hamburg, Germany (German).....	1000 00
Hon. John Macdonald (Philosophy).....	1950 00	T. B. P. Stewart (not yet allocated).....	961 32
Friends of the late Hon. Alexander Mackenzie (not yet allocated).....	16425 00	Toronto Committee of the American Association for the Advancement of Science (Physics).....	2350 00
		Daniel Wilson Scholarship, by a friend of the late Sir Daniel Wilson (Chemistry and Mineralogy, Natural Sciences).....	2000 00

Medals.

His Excellency the Earl of Aberdeen (annually)	Silver Medal, Modern Languages.
W. H. C. Kerr (annually)	Gold Medal, Classics.
Rev. S. Lyle (fund of \$130).....	Silver Medal, Orientals.
W. B. McMurrich (annually).....	Silver Medal, Natural Sciences.
F. T. Shutt (annually)	Silver Medal, Natural Sciences.
Dr. R. N. Starr (land, value \$2,400).....	Gold and Silver Medals, Medicine.

Prizes in Books.

Given Annually.

Professor E. J. Chapman (Mineralogy and Geology). \$15 00	Professor Pike (Chemistry).. \$15 00
Professors Hutton and Dale (Classics)	F. Wyld, Esq. English Com- position)
President Loudon (French Composition)..... 15 00	25 00

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. Up to 1st June, 1894, the following amounts had been paid into this fund:—

Acheson, Dr. George, Toronto, \$10; Adam, G. M., \$5; Aikenhead & Crombie, Toronto, \$25; Aikins, Dr. H. Wilberforce, Toronto, \$100; Aikins, B. M., Toronto, \$10; Alexander, A., \$5; Alexander, Prof. W. J., Toronto, \$200; Allan, A. A., Toronto, \$100; Allan, H. & H. A., Montreal, \$200; Angus, R. B., \$100; Annis, J. W., St. Thomas, \$10; Anonymous, \$20; Ashley, Prof. W. J., Toronto, \$80; Austin, B. F., St. Thomas, \$4; Baker, Prof. Alfred, Toronto, \$150; Bain, James, Jr., Toronto, \$25; Baldwin, Rev. J. Macqueen, Japan, \$100; Baldwin, Prof. J. Mark, Princeton, N. J., \$100; Baldwin, Robt., Toronto, \$100; Baldwin, R. Russell, Toronto, \$100; Baldwin, Dr. W. W., Toronto, \$80; Ballard, W. H., Hamilton, \$64.50; Balmer, Miss E. M., Toronto, \$25; Banks, G. W., Toronto, \$25; Barber & Ellis Co., Toronto, \$100; Barrie Collegiate Institute, \$100; Bascom, Dr. Joseph, Uxbridge, \$25; Beardmore & Co., Toronto, \$300; Beck, H. T., Toronto, \$60; Bell, Prof. A. J., Toronto, \$60; Bell Telephone Co., Montreal, \$100; Bell, W. N., Strathroy, \$5; Bertram, John, Toronto, \$50; Bettridge, Dr. Wm.,

Strathroy
\$400; Bil
Mrs. G. T
Toronto,
\$20; Bon
Chancellor
Ste. Mari
\$5; Brien
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Luckham
Burritt,
Norwalk,
\$40; Can
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John, Mo
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Sydney C. D., Ottawa; Rosenthal, S., München; Roth, Jos., München; Rowson, Rev. Mr.; Rumelin, Ludw., Windischgrätz, Austria; Rye, Mrs. Amy, Cambridge; Sachsse, Prof., University of Bonn; Sacco, Prof. Fredrico, University of Turin; St. Goar, T., Frankfurt am Main; Salmon, Rev. Provost George, Trinity College, Dublin; Sanson, Rev. Alex., Toronto; Saunders, A. P., Ottawa; Schaaffhausen, Prof., University of Bonn; Schaarschmidt, Prof., University of Bonn; Scheffler, Dr. H., Braunschweig; Scheibler, Prof. C., Berlin; Schmidt, Dr. Leopold, Marburg; Schönfeld, Prof. E., University of Bonn; Schwabe, Madame Julia Salis, London; Scott, Hon. Mrs. Maxwell, Abbotsford, Melrose; Scott, H. J., Toronto; Sears, George E., Toronto; Senkler Estate, per E. J. Reynolds, Brockville, Ont.; Shaw, G. E., Toronto; Sheldon, E. S., Cambridge, U. S.; Shortt, W. A., New York; Sidgwick, C. M., Cambridge; Silver, S. William, London; Sim, —, Woodstock, Ont.; Sime, Mr. and Mrs. James, Chiswick, London; Sinclair, J. R., Toronto; Skipton, S. S., London; Smith, Miss Eliza Carter, London; Smith, John C., Brooklyn, N. Y.; Smith, R. O., Woodstock, Ont.; Smith, Rev. Dr. I. Gregory, Malvern; Smith, William, Ottawa; Smith, W. J., Brighton; Smyth, Prof. C. Piazza, University of Edinburgh; Snell, H. Saxon, London; Sommervogel, C., Paris; Spencer, Rev. E., Tavistock, England; Spencer, J. W., Atlanta, Ga.; Squair, Prof. John, University College, Toronto; Stanley, W. Ford, London; Stephens, Prof. George, University of Copenhagen; Stokes, Prof. G. T., Trinity College, Dublin; Stracey, Rev. W. J., London; Strasburger, Prof. E., University of Bonn; Streeter, Ed. W., London; Stricker, R., Berlin; Strode, E., London; Struthers, Dr. J., University of Aberdeen; Stuart, Mrs. G., Okill, Quebec; Sturn, Dr. R.; Swanwick, Miss Anna, London; Swinton, A. H., Bedford; Taché, Louis, Ottawa; Tarleton, F. A.; Tatham, Rev. Geo. E., East Mosley, England; Teefy, Rev. J. R., St. Michael's College, Toronto; Temple, Sir Richard, London; Tennant, Gen., London; Thom, A. Bissett, London; Thom, Mrs. D., Liverpool; Thom, J. H., Toronto; Todd, George, London; Tozer, Ephraim, Toronto; Tracy, Dr. F., University of Toronto; Uschner, Dr., Oppeln, Germany; Usener, Prof. H., University of Bonn; Valle, Prof. Guido, University of Turin; VanderSmissen, Prof. W. H., University College, Toronto; Vicars, Mrs., Toronto; Wagner Fried., Braunschweig; Walker, Byron E., Toronto; Waterhouse, S., Washington University, St. Louis; Weiss, Georg, Heidelberg; Wells, H., Wadham College, Oxford; Wendt, Ernst Emil, London; Whiting, Hon. J. W.; Wicksteed, G. W., Ottawa; Wilkie, D. R., Toronto; Willeman, Prof. L. von, Darmstadt; Williams, George E., Kingston, Ont.; Williamson, Prof. B., University of Dublin; Williamson, Mrs., Toronto; Williamson, T. G.; Willman, Wm.; Wilson, the late Sir Daniel, University of Toronto; Wilson, Miss J. S., Toronto; Wilton, Chas., St. Alban's; Winchell, N. H.; Winkler, Dr. Clemens, Freiberg; Wishart, Dr. D. J. Gibb, Toronto; Wissler, Henry, Elora, Ont.; Withrow, Rev. W. H., Toronto; Woodhouse, J. J., Toronto; Woods, Samuel, London, Ont.; Wright, A. G., Malvern; Wright, A. W., Galt, Ont.; Wrong, Rev. G. M., University of Toronto; Wülker, Prof. R. P., Kassel, Germany; Young, C. A., Princeton, U.S.; Young, Hon. James, Galt, Ont.; Zais, Ernst, München; Zeller, Prof. E., University of Berlin.

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Museum.

Donations from Public Institutions.

Cambridge (U. S.) Museum of Comparative Zoology (through Prof. Alex. Agassiz).....Twenty-six species of recent corals.

Canadian Geological Survey (through the Director).....150 species, 466 specimens of Canadian fossils; collection of Devonian fossils from Lake Winnipegosis.

The Royal Gardens, Kew.....Botanical specimens; collection of fruits, seeds, etc.

McGill University, Montreal (through Sir William Dawson).....Collections of: (a) Siluro-Canadian fossils; (b) fossil sponges from the Quebec group; (c) pleistocene fossils from Quebec; (d) recent shells from Mazatlan.

Michigan State University Museum (through the President and Professor Steere).....Fifty species of shells from the Philippine Islands.

Museum of Natural History, Paris (through Professor Alphonse Milne-Edwards).....Collections of: (a) 20 mammal skins; (b) 100 bird skins.

Ditto (through Professor Perrier).....Collection of 500 specimens, chiefly of tropical shells, but including invertebrate fossils from the Paris Basin.

United States National Museum, Washington.....Collection of Echinoderms and Cœlenterates, 73 species, 147 specimens; collection of fish preserved in alcohol—138 species.

Individual Donors.

Mr. Addison (1893).....Green snake in oil.

Mr. Atkinson (1893).....20 skins of local birds.

Miss Baylis, Montreal.....Collection of Lower Canadian plants.

Messrs. N. G. Bigelow, Moss, Kingsmill and Marsh.....Twenty-five cases of insects.

David Boyle, Esq., Toronto (1894).....Pentremites; prepared jaws, etc. of *Crotalus* with poison fangs.

Mrs. Campbell, Carbrook, Toronto.....Skin of winter hawk.

William Christie, Esq.....Specimens and models of corals, value \$250.

Dr. Clarke, San Francisco (late of Toronto).....Table, formerly the property of Harvey, the discoverer of the circulation of the blood.

Judge Copineau, Doullens, France....Collection of French plants.

Dr. G. M. Dawson.....Specimen of "vegetable caterpillar" fungus from Australia (*Cordyceps entomorphiza*), (1894); Parts of skeletons of *Rhytina gigas*, Behring's Island, and skulls of fur seal.

L. O. Fiset, undergraduate of University of Toronto.....Two gopher skulls.

Major Foster (1893).....Skin of Porcupine fish.

Dr. J. T. Fotheringham, Toronto.....Ermine from North-West Territories; raw skeleton of *Buteo swainsonii*; skull of ditto; 3 skulls, marsh harriers; skull *Anser canadensis*.

- Dr. J. H. Garnier, Lucknow, Ont. 29 mounted mammals ; 70 mounted birds ; 21 mounted reptiles.
- Col. Grant, Hamilton, Ont. Fossils from the neighborhood.
- Professor J. B. Howes, College of Science, London Series of alcoholic specimens.
- Professor A. C. Lawson, University of California 2 bear skulls ; 2 lynx skulls.
- C. C. McCaul, Esq., Calgary, N. W. T. (1894) Skin of golden eagle ; Placenticerus and other fossils.
- Æneas McKay, Esq., Demerara (1893) 3 mammalian skins from Demerara (2 monkeys and 1 ant-eater) ; (1894) skin of barn owl.
- Dr. McLellan, Trenton, Ont. Mounted specimens of Canada goose and pintail duck.
- Vice-Chancellor Mulock Plaster busts of distinguished biologists.
- Mrs. Neville, John Street, Toronto 2 mounted chamois.
- Professor H. A. Nicholson, University of Aberdeen Series of fossil corals and graptolites.
- Professor J. H. Richardson, Toronto 11 Australian bird skins.
- Mr. J. D. Riddell, Earliston, Scotland (through Mr. Stalker, Isabella street, Toronto) 13 Australian birds, mounted.
- Mr. Semple, Toronto Skin, Virginia deer with white sides.
- J. Stalker, Esq. Nest of social wasp.
- Col. Sweny, Toronto Skins, Velvet scoter ; 2 skins, *Clangula Albeola*.
- Ernest E. Thompson, Esq. (1894) Raw skeletons of *Canis latrans* and *Lynx rufus*, New Mexico.
- J. B. Tyrrell, Esq., Ottawa Skin, skull, etc., of musk ox in best condition for mounting.
- Professor Hans Virchow, Berlin, Germany Cast, human foot and the skeleton of the same showing natural position of the bones.
- B. E. Walker, Esq., Toronto Paddle of Ichthyosaurus and various specimens of teeth, etc., from English bone caves.
- Professor R. Ramsay Wright Skin, young porcupine and skeleton of adult do., from Muskoka.

Portraits and Works of Art.

The following portraits and works of art have been presented to the University during the present year (1894) :—

1. A portrait of the late Hon. William Hume Blake (oil painting), presented by the Hon. Edward Blake.
2. A portrait of the late Professor Henry Holmes Croft (oil painting), presented by friends of Professor Croft.
3. A portrait of the late President Dr. McCaul (oil painting by A. Dickson Patterson), presented by the artist.

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4. A portrait of the late Vice-Chancellor Moss (oil painting), presented by Charles Moss, Esq.
5. A portrait of the late Right Reverend Bishop Strachan (oil painting copy), presented by the Council of University College.
6. A portrait of the late President Sir Daniel Wilson (oil painting), presented by friends of Sir Daniel Wilson.
7. A marble bust of the late Professor George Paxton Young, presented by friends of Professor Young.
8. A portrait of the late Professor George Paxton Young (oil painting by W. Allaire Shortt), presented by the artist.
9. The "Call to Duty" (oil painting, by Paul Giovanni Wickson), presented to the Medical Faculty by the artist.

EXCHANGE OF PUBLICATIONS.

The following is the list of those institutions with which the University exchanges publications:—

Academy of Medicine in Ireland (Dublin); Amherst College, Mass.; Acadia University, Wolfville, N. S.; Bryn Mawr College, Penn.; Brown University, Providence, R. I.; Bergen Museum, Library of the; Breslau, Veren f. Schlesische Insektenkunde; Canada, Library of Parliament; Canterbury College, Christchurch, New Zealand; Case School of Applied Science, Cleveland, Ohio; Columbia College, New York; Cornell University, Ithaca, N. Y.; California, University of; Colorado, University of; Catholic University, Ottawa; Clark University, Worcester, Mass.; Chicago, University of; Christiania (Norway), University; Dalhousie College, Halifax; De Pauw University, Greencastle, Ind.; Dundee, University College, Scotland; Darmstadt, Technische Hochschule; Glasgow, Natural History, Society of; Giessen (Germany), Universitäts-Bibliothek; Glasgow and West of Scotland Technical College; Harvard College, Cambridge, Mass.; Hartford Theological Seminary; Institution of Mechanical Engineers, London, Eng.; Iowa, State University of; Japan, Imperial University of, Tokyo; Johns Hopkins University, Baltimore; King's College, Windsor, N. S.; Lafayette College, Saston, Penn.; Leland Stanford University, California; Leopoldinisch-Carolinische Akademie, Halle, Germany; Lyon Université de; Laval Université, Quebec; Manitoba, University of; Milwaukee Public Library; Melbourne (Australia), University of; Michigan, University of; Massachusetts Institute of Technology; McMaster University, Toronto; McGill University, Montreal; Minnesota University of; New Brunswick, University of; do., Natural History Survey; New York State Library; do., University of the City of; North Dakota, University of; New Jersey, College of, Princeton; Oberhessische Gesellschaft für Natur-und Heilkunde, Giessen; Ontario Legislative Library; Panjab University, India; Pathological Society of London; Quebec Legislative Library; Queen's University, Kingston; School of Practical Science, Toronto; Sydney (Australia), University of; Trinity University, Toronto; Texas, University of; Turin, Università; Upsala, University of, Sweden; Vassar College, Poughkeepsie, N. Y.; Victoria University, Toronto; Virginia, University of; Wellesley College, Mass.; Williams College, Williamstown, Mass.; Wisconsin University of; Wisconsin State Historical Society; Wycliffe College, Toronto; Washington University, St. Louis; Yale University, New Haven, Conn.

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SATURDAY PUBLIC LECTURES.

The following lectures were delivered during the session of 1893-94 :—

<i>Subject.</i>	<i>Lecturer.</i>
"The Colors of Animals"	Professor E. E. Prince.
"Antigone"	Professor Maurice Hutton.
"The Fall of Rome"	Rev. Geo. McK. Wrang.
"Michael Angelo"	Professor W. H. Fraser.
"The Anatomy of the Brain"	Professor A. Primrose.
"The Fourth Chair in the French Academy"	Mr. J. H. Cameron.
"The Chemistry of Photography"	Professor W. H. Ellis.
"The Early Italian Painters"	Mr. Byron E. Walker.
"Pascal"	Professor J. Squair.
"Iceland"	Professor J. Mavor.

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.

The present Secretary is William Houston, M.A., Toronto.

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.
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 can 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.

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University College.....

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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.

Administrative
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Agriculture
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Applied Science
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Arabic . . .
Aramaic . . .
Arts, Curriculum
Arts, Exchange
Arts, Exchange
Arts, Instruction
Arts, Instruction
Arts, List
Arts, Register
Arts, Register
Arts and Letters
Arts and Letters
Assyrian . . .
Athletic Games
Athletics
Attendance
Bachelor of Arts
B. A. Sc.,
Benefaction
Biology . . .
Biology, Instruction
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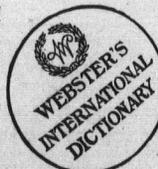
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