

ANNUAL ANNOUNCEMENT  
OF THE  
**Toronto School of Medicine,**

IN AFFILIATION WITH  
THE UNIVERSITY OF TORONTO,  
THE UNIVERSITY OF VICTORIA COLLEGE,

And recognized by the several Colleges of Physicians and Surgeons in Great Britain.

Established 1843. Incorporated by Act of Parliament, 1851.



OPPOSITE THE TORONTO GENERAL HOSPITAL.

*Thirty-Sixth Session, from Oct. 1st, 1878, to April 1st, 1879.*

TORONTO:

PRINTED AT THE "GUARDIAN" OFFICE, COURT STREET.

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# MEMBERS OF SENATE, 1878-9.

## (1) *Ex-Officio.*

Hon. EDWARD BLAKE, M.A., Q.C., M.P.,  
*Chancellor.*

Hon. THOMAS MOSS, M.A.,  
*Vice-Chancellor.*

Rev. JOHN McCAUL, LL.D.,  
*President of University College.*

GEORGE R. R. COCKBURN, M.A.,  
*Principal of Upper Canada College.*

WILLIAM THOMAS AIKINS, M.D.,  
*Representative of the Toronto School of Medicine.*

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*Representative of the Canadian Literary Institute, Woodstock.*

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*Representative of Albert College, Belleville.*

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*Representative of High School Masters, Ontario.*

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LARRATT WILLIAM SMITH, D.C.L.

GEORGE PAXTON YOUNG, M.A.

ROBERT RAMSAY WRIGHT, M.A., B.Sc.

*Ex-Vice-Chancellors.*

*Representing Council of University College.*

## (2) *Elected by Convocation.*

WILLIAM MULOCK, M.A.

JOHN BOYD, M.A., B.C.L.

WILLIAM OLDRIGHT, M.A., M.D.

JOHN MORISON GIBSON, M.A., LL.B.

JAMES HENRY RICHARDSON, M.D.

JAMES BETHUNE, Q.C.

JAMES LOUDON, M.A.

JAMES THORBURN, M.D.

THOMAS KIRKLAND, M.A.

S. WOODS, M.A.

JAMES FISHER, M.A.

ARCHIBALD FRED. CAMPBELL, M.A.

THOS. WARDLAW TAYLOR, M.A., Q.C.

LACHLAN McFARLANE, M.B.

Rev. NEIL MACNISH, B.D., LL.D.

## (3) *Nominated by His Excellency the Lieutenant-Governor.*

Hon. WILLIAM McMASTER.

Hon. JOHN WELLINGTON GWYNNE.

Hon. GEORGE BROWN.

HUGH McMAHON, Q.C.

CASIMIR STANISLAUS GZOWSKI, C.E.

JOHN MACDONALD, M.P.

DANIEL WILSON, LL.D.

Rev. DANIEL J. MACDONNELL, B.D.

Hon. CHRISTOPHER S. PATTERSON.

Registrar—WILLIAM GLENHOLME FALCONBRIDGE, M.A.

Librarian—WILLIAM HENRY VANDERMISSEN, M.A.



# FACULTY OF TORONTO SCHOOL OF MEDICINE, 1878-9.

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- HENRY H. CROFT, D.C.L., F.L.S.**, *Professor of Chemistry and Experimental Philosophy, University College, Emeritus Lecturer on Chemistry.*
- WM. T. AIKINS, M.D.**, *Surgeon to the Toronto General Hospital and to the Central Prison, Consulting Surgeon to the Children's Hospital, Lecturer on Principles and Practice of Surgery and Clinical Surgery.—78 Queen Street West.*
- H. H. WRIGHT, M.D., L.C.P., & S.U.C.**, *Physician to Toronto General Hospital, Consulting Physician to the Children's Hospital, Lecturer on Principles and Practice of Medicine, and Clinical Medicine.—197 Queen Street East.*
- J. H. RICHARDSON, M.D., M.R.C.S., Eng.**, *Consulting Surgeon to Toronto General Hospital, and Surgeon to Toronto Gaol, Lecturer on Descriptive Anatomy.—46 St. Joseph Street.*
- UZZIEL OGDEN, M.D.**, *Physician to Burnside Lying-in Hospital, Consulting Surgeon to the Children's Hospital, Physician to the House of Industry and Protestant Orphan's Home, Lecturer on Midwifery and Diseases of Women and Children.—57 Adelaide Street West.*
- JAMES THORBURN, M.D.**, *Edinburgh and Toronto Universities, Consulting Physician to the Toronto General Hospital and Boys' Home, Consulting Surgeon to the Children's Hospital, Lecturer on Materia Medica and Therapeutics.—Wellington and York Streets.*
- M. BARRETT, M.A., M.D.**, *Medical Officer to Upper Canada College, and Lecturer on Physiology, Ontario College of Veterinary Medicine, Lecturer on Physiology.—Upper Canada College.*
- W. W. OGDEN, M.B.**, *Physician to the Toronto Dispensary, Lecturer on Medical Jurisprudence and Toxicology.—242 Queen Street West.*
- M. H. AIKINS, B.A., M.B., M.R.C.S., Eng.**, *Lecturer on Primary Anatomy.—Burnhamthorpe.*
- W. OLDRIGHT, M.A., M.D.**, *Physician to the Newsboys' Home, Curator of Museum, and Lecturer on Sanitary Science.—50 Duke Street.*
- L. McFARLANE, M.B.**, *Physician to the Toronto Dispensary, Demonstrator of Anatomy.—7 Wilton Avenue.*
- GEORGE WRIGHT, M.A., M.B.**, *Physician to the Toronto Dispensary, Physician to the Children's Hospital, Demonstrator of Anatomy.—243 Simcoe Street.*
- ALEX. GREENLEES, M.B.**, *Practical Chemistry.—123 Church Street.*
- R. ZIMMERMAN, M.D., L.R.C.P., Lond.**, *Physician to the Toronto Dispensary, Physician to the Children's Hospital, Demonstrator of Microscopical Anatomy.—171 Church Street.*
- F. H. WRIGHT, M.B., L.R.C.P., Lond.**, *Physician to the Toronto Dispensary, Physician to the Children's Hospital, Demonstrator of Microscopical Anatomy.—197 Queen Street East.*
- J. E. GRAHAM, M.D., L.R.C.P., Lond.**, *Surgeon to the Toronto General Hospital, Lecturer on Chemistry.—66 Gerrard Street East.*
- R. A. REEVE, B.A., M.D.**, *Ophthalmic Surgeon to the Toronto General Hospital and Children's Hospital, Lecturer on Diseases of the Eye and Ear, and on Botany.—22 Shuter Street.*
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Clinical Lectures will be given at the General Hospital by Dr. H. H. Wright, Dr. Aikins, Dr. Richardson, Dr. Thorburn, Dr. Graham, and Dr. Reeve.

Clinical Instructions will be given at the Toronto Dispensary by Dr. McFarlane, Dr. George Wright, Dr. F. H. Wright, and Dr. Zimmerman.

Janitor of School, James Pickering. Residence on the premises.



THE THIRTY-SIXTH SESSION  
OF THE  
Toronto School of Medicine,  
IN AFFILIATION WITH  
*THE UNIVERSITY OF TORONTO AND THE UNIVERSITY OF  
VICTORIA COLLEGE.*

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IN presenting their Annual Announcement, the Faculty are pleased to be able to report the steady and rapidly increasing prosperity of this Institution. The increase in the number of students in attendance upon lectures has been so great since the removal of the School to the present building, as to necessitate largely increased accommodation. Arrangements are now in progress, therefore, for the addition of a new Lecture-room, which will amply meet the wants of the students in every particular. This addition with such other modifications in the present interior arrangements of the building as may be deemed expedient will, it is confidently hoped, place such accommodation at the disposal of the School, as will not be excelled by any other Medical Institution in the Dominion.

Students are strongly advised to be present at the opening lectures of the Session, as it is highly desirable that they should understand, as speedily as possible, the precise nature of the work.

The Hospital advantages will, hereafter, be much more extensive, and superior to what they have hitherto been. The new fever wing, the erection of which was commenced last year, will be completed, and will offer facilities for the study of this most important form of disease such as are not excelled anywhere.—A wing for an Eye and Ear Infirmary has also been provided, so that this class of diseases will be treated upon a much more extensive and effective

basis. Arrangements were completed some time ago for the transfer of the Burnside Lying-in-Hospital to the General Hospital Trust, and a splendid new wing is now in course of erection, in which there will be the most abundant opportunities offered for the study of mid-wifery and the diseases of women.

All these additions in the shape of Hospital advantages will greatly aid the intending student in the successful prosecution of his studies. With the constantly strengthening conviction among the profession as to the vast importance of a complete course of clinical instruction, it will be readily seen how greatly the facilities now offered in Toronto are in advance of what they were only a few years ago. The earnest student will find here all the elements necessary for the most successful prosecution of Medical studies; and hence the necessity for going abroad is every year becoming less urgent.

The Faculty of the Toronto School of Medicine are determined that no effort will be wanting on their part to render all the instructions imparted of such a character as not only to merit the confidence of the students but abundantly qualify them for the successful pursuit of their profession. To this end the most careful clinical teaching will be associated, whenever practicable, with the didactic course. Courses of clinical lectures will be regularly given by the attending Physicians and Surgeons of the Hospital belonging to the Faculty, always illustrated by typical cases, bearing upon the special disease under consideration.

In addition to the advantages offered by the General Hospital, the students will also have access to the Toronto Dispensary, where a large number of cases of interest constantly come under their notice, offering valuable opportunities for the study of disease.

The Children's Hospital will also be open to any students wishing to avail themselves of its advantages.

The managers of this Institution have recently succeeded in securing a new building admirably adapted to their present requirements. There is, perhaps, no Institution of like proportions in which more information can be acquired in the treatment of the class of diseases that are constantly coming under the student's notice.

# FEES OF TORONTO SCHOOL OF MEDICINE.

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## FEES.

For the course on—1, Demonstrations, including material for dissection ; 2, Physiology ; 3, Chemistry ; 4, Materia Medica and Therapeutics ; 5, Medicine ; 6, Surgery ; 7, Midwifery and Diseases of Women and Children, \$12 each.

Anatomy, descriptive and surgical, \$15.

1, Medical Jurisprudence ; 2, Practical Chemistry ; 3, Clinical Medicine ; 4, Clinical Surgery, \$6 each.

1, Sanitary Science ; 2, Microscopical Demonstrations ; 3, Botany, \$5 each.

Registration, \$5, payable only once.

The third course on any branch, free.

All fees must be paid in advance.

Communications may be addressed to

H. H. WRIGHT, M.D.,

*Secretary.*

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## FACULTY SCHOLARSHIPS.

The faculty have established the following scholarships, which will be open to the students of the respective years in which they are awarded, and will be distributed as follows :

There will be one scholarship to the value of \$50 awarded, at the close of each of the first three years of the course. These scholarships will be open to all students who have attended and paid for the course of lectures in the several years for which they are awarded.

There will also be a prize given at the end of the fourth year, consisting of a surgical case of the value of \$50. This prize will be open for competition to all students who have attended at this school and paid for two full courses of lectures.

The amounts of the several scholarships will be given in money to the successful competitors as soon as they have been awarded.

The Secretary of the Faculty will be in attendance at the School on Wednesday, September 25th, and the following days from 11 a.m., till 12 noon, and from 3 till 4 p.m., to register the names of any intending students, and to give such information regarding lectures, &c., as may be required.



# COLLEGE OF PHYSICIANS AND SURGEONS OF ONTARIO.

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The following regulations have been established by the Council of the College of Physicians and Surgeons of Ontario, for 1877-78 :

1. That the Matriculation Examinations after January 1st, 1879 be held at Toronto and Kingston alternately ; the April Examination to take place in Toronto, and the August Examination in Kingston.

2. That the first years professional examination be entirely oral' and to take effect after July, 1878.

3. That not less than 75 per cent. of the attendance on the various lectures be certified by the various teachers or Lecturers before such tickets can be accepted by the Council, and that this regulation take effect after July, 1878.

4. That candidates for Matriculation must send in their fees to the Treasurer, at least two weeks before the examination, and no candidates shall be eligible for examination whose fees are not so paid.

5. That candidates for any of the professional examinations shall send in to the Registrar with their tickets, the Treasurer's receipt for the fee for such examination.

6. That the period of "four years" shall mean forty-eight calendar months—this clause does not come into force till April 1st, 1879.

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## MATRICULATION.

1. The examination in Preliminary Education will be held in Toronto and Kingston, on the first Tuesday and Wednesday after Good Friday, and on the third Tuesday and Wednesday in August of each year. In this examination will be included writing from dictation, and correct spelling and legible writing will be considered indispensable.

2. Every student must pass a satisfactory examination in the following subjects, viz.:

- a. English Language, including Grammar and Composition.
- b. Arithmetic, including Vulgar and Decimal Fractions.
- c. Algebra, including Simple Equations.
- d. Geometry, first two books of Euclid.
- e. Latin, Translation and Grammar.

And upon one of the following subjects, (of which students are recommended to select either Natural Philosophy or one of the Modern Languages,) the candidate having the option of naming the subject upon which he\* will be examined, viz.:

GREEK.

FRENCH.

GERMAN.

NATURAL PHILOSOPHY, including Mechanics, Hydrostatics and Pneumatics.

3. The following are the Text-books to be used in the examination. Where more than one is named, the Candidate may select the one upon which he may prefer to be examined, viz.:

LATIN—Cæsar, *Commentaries on Gallic War*, fifth and sixth Books; Cicero *Manilian Law*; Virgil, *Æneid*, second Book.

GREEK—Xenophon, *Anabasis*, first Book.

FRENCH—Voltaire, *Œuvres* XII. first, second and third Books.

GERMAN—Adler's Reader, first part.

NATURAL PHILOSOPHY—Peck's Ganot; Sangster's first Book.

4. Evidence of having passed a Matriculation Examination in any of the recognized Medical Institutions of Canada prior to July, 1870, will exempt from Matriculating before the Examiners of this Council, upon payment of Ten Dollars.

5. Graduates in Arts, or students having matriculated in Arts in any university in Her Majesty's Dominions, are not required to pass the matriculation examination, but may register their names with the Registrar of the College, upon giving satisfactory evidence of their qualifications and upon paying the matriculation fee of Ten Dollars.

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\* The masculine pronoun is used here and throughout the "Regulations" with reference to "Students" and "Candidates," nevertheless these terms are to be construed as applicable to either Sex.

6. Matriculants in Arts, of any University in Her Majesty's Dominions, will be exempted from passing the Matriculation examination of this college only when such university matriculation is equivalent to that of the Council.

7. In the case of graduates in Arts, it is provided that where it is shown that a course or courses of lectures have been attended by the graduate in Botany and Theoretical Chemistry, and that he has already passed an examination on these subjects, he will not be required to pass again on these subjects before the examiners appointed by the Council. However, the candidate will require to prove that he has attended one course of lectures on Botany and two full courses on Theoretical Chemistry.

8. Every Medical Student after matriculation, shall be registered in the manner prescribed by the Council and this shall be held to be the preliminary to his Medical Studies, which shall only be considered to begin from the date of such registration.

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### MEDICAL CURRICULUM.

1. Every student after his Matriculation has been registered, must spend a period of Four years in actual Professional study, except as hereinafter provided.

2. Graduates in Arts of any college or university recognized by the Council, will only be required to pass Three years after graduating, in attendance upon Medical Lectures before being admitted to their Final Examination.

3. Every student shall attend Medical Lectures for at least Three Sessions of six months each, and the said Three Sessions must be included in the first three years.

4. Each "Six-Months Course" shall consist of not less than One Hundred Lectures.

5. Every student must attend the undermentioned Courses of Lectures\* in a University, College, or School of Medicine approved of by the Council, viz. :

Two courses of Six Months each, upon

ANATOMY,  
 PRACTICAL ANATOMY,  
 PHYSIOLOGY, (including Histology,)  
 THEORETICAL CHEMISTRY,  
 MATERIA-MEDICA AND THERAPEUTICS,  
 PRINCIPLES AND PRACTICE OF MEDICINE,  
 PRINCIPLES AND PRACTICE OF SURGERY,  
 MIDWIFERY AND DISEASES OF WOMEN AND CHILDREN,  
 CLINICAL MEDICINE,  
 CLINICAL SURGERY.

One course of Six Months, or two course of Three Months each,  
 upon

MEDICAL-JURISPRUDENCE.

One course of Three Months upon

PRACTICAL CHEMISTRY,  
 BOTANY.

One course of not less than Twenty-five Demonstrations upon  
 MICROSCOPIC ANATOMY, PHYSIOLOGY AND PATHOLOGY.

The attendance on a course of twenty-five lectures on Sanitary Science will be required of every student, except such as have already attended two winter courses of lectures.

6. The following are the Text-books recommended by the Council in the various branches :

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#### GENERAL TEXT-BOOKS.

ANATOMY—*Gray.*

PHYSIOLOGY—*Marshall, Dalton, Carpenter, Kirke, Paget.*

CHEMISTRY—*Fownes, Croft, Roscoe, Atfield, Gairdner.*

MATERIA-MEDICA—*Pereira by Wood, Stillé, Wood, United States Dispensatory.*

SURGERY—*Druitt, Gross, Erichsen, Bryant, Hamilton.*

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\* No certificate of attendance upon any Course will be accepted if the Teacher lectures upon more than one Branch of Medical Science, nor if he delivers more than one lecture daily. However, the Lecturer on Medicine may lecture upon Clinical Medicine; the Lecturer on Surgery, upon Clinical Surgery; and the Lecturer on Materia Medica upon Botany and upon Medical Jurisprudence. Furthermore, no certificate of pupilage, nor of attendance upon Lectures, in the Province of Ontario, will hereafter be accepted, if the person certifying the same be not a duly Registered Practitioner, excepting in the subjects of and Botany Chemistry.

MEDICINE—*Flint, Watson, Wood, Aitken, Bennett, Tanner, De Costa on Diagnosis.*

MIDWIFERY—*Tyler Smith, Churchill, Barnes.*

MEDICAL-JURISPRUDENCE AND TOXICOLOGY—*Taylor.*

PATHOLOGY—*Jones and Sieveking, Paget's Surgical Pathology, Rokitan-sky, Billroth.*

### HOMŒOPATHIC TEXT-BOOKS.

MATERIA-MEDICA—*Hahnemann, Jhar, Dudgeon.*

MEDICINE—*Niemeyer's Pathology, Bachr's Therapeutics, Raue's Pathology, and Diagnostics, Marcy and Hunt's Practice, Da Costa on Diagnostics, Flint.*

SURGERY—*Franklin, Helmuth, Gilchrist, Gross.*

MIDWIFERY—*Bedford, Guernsey, Ludlam, Meadows.*

7. Every student before being admitted to the Final Examination hereinafter mentioned, must have spent a period of Six months in the office of a regularly qualified Medical Practitioner,\* compounding medicines.

8. He must have attended the practice of a General Hospital for Eighteen months.

9. He must have attended Six cases of Midwifery.

10. He must, before being registered as a member of the College of Physicians and Surgeons of Ontario, have passed all the Examinations hereinafter prescribed ; and he must have attained the full age of twenty-one years.

11. (a) All persons from registered Colleges outside the Province of Ontario and Quebec, who desire to qualify themselves for registration in this Province, must pass the Matriculation Examination established by the Council, and attend thereafter one full "Winter-Course" of Lectures in some one of the Ontario Medical Schools, and such other Course or Courses as may be necessary to complete the Curriculum required by the Council, and shall pass before the Board of Examiners appointed by the Council, all the Examinations hereinafter prescribed.

12. (b) Nothing shall exempt residents of Ontario, who after July,

\* The words "regularly qualified" are applicable only to Practitioners registered according to law.

1877, elect to pursue their studies outside of the Province of Ontario, from passing Four years in the pursuit of their Professional Studies ; such Four years to commence at the date of their passing the Matriculation Examination before the Examiners appointed for the purpose by the Council.

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### EXAMINATIONS.

1. The Professional Examinations are henceforward to be divided into three *Annual* Examinations, and a *Final* Examination.

2. The *Final* Examination is to be undergone at the end of the Fourth Year.

3. The following Branches will be the Subjects for the First year's Examination, viz. :

ANATOMY, of the Bones, except those of the head, Ligaments, Muscles, and the Viscera of the Chest and Abdomen.

PHYSIOLOGY OF LOCOMOTION, Respiration, Circulation, and Digestion.

CHEMISTRY, Inorganic. Confined to Metalloids and non-metallic bodies.

4. The following Branches will be included in the Second year's Examination, viz. :

ANATOMY, other than that of First year.

PHYSIOLOGY, with microscopic Anatomy.

CHEMISTRY, THEORETICAL AND PRACTICAL, other than that of First year.

SANITARY SCIENCE.

BOTANY.

5. The Third year's Examination will include :

ANATOMY, Descriptive.

PATHOLOGY, Medical and Surgical.

MEDICAL-JURISPRUDENCE.

SURGERY, Operative.

MIDWIFERY, Operative.

6. The Examination for the Fourth year or "Final" Examination will include :

ANATOMY, Medical and Surgical.

TOXICOLOGY (optional for third or fourth year).

MATERIA-MEDICA AND THERAPEUTICS.

THEORY AND PRACTICE OF MEDICINE.  
 MIDWIFERY, other than Operative, AND DISEASES OF WOMEN  
 AND CHILDREN.  
 SURGERY, other than Operative.

7. All the Examinations will be as Clinical and Demonstrative as possible.

8. The first three *Annual* Examinations are in all respects the same for every candidate.

9. Any candidate who at his various Examinations passes creditably in three or more Branches, but fails in the others shall receive credit for the Subjects successfully passed, and only be compelled to pass in the other Branches at a subsequent Examination.

10. In the event of any Candidates for Examination desiring to be registered as Homœopathic Members of the College of Physicians and Surgeons of Ontario, notice of such desire must be given to the Registrar, so that their Examination may be conducted by the Examiners appointed for that purpose ; but prior to the acceptance of such notice from these candidates (which notice shall be considered confidential by the Registrar), the usual fees must be paid. The Registrar shall then inform the Homœopathic Examiners of the fact of such application having been made, that they may be prepared for the examination of the candidates, whose name shall not be divulged. All regulations of the Council inconsistent with the above are hereby repealed.

11. The written portion of the next Professional Examination will commence in Toronto and Kingston towards the end of May, 1878, the precise date to be fixed by the President. The questions submitted to the Candidate will be printed and not dictated as heretofore.

12. The Primary Examinations cease after July, 1877.

13. No certificate of attendance shall be valid in future unless the number of Lectures attended is specified on each ticket. The same rule shall apply to Hospital Certificates.

14. All students whose studies commenced one year prior to 1876, and all students having matriculated during or before that year and who studied with a medical practitioner prior to 1876, shall be allowed to go up for the first and second years' examination in 1878 and the third and fourth in 1879.

15. The percentage required to be attained in the Annual Examinations are : First year,  $33\frac{1}{3}$  ; second year, 50 ; third and fourth, 60.

16. Graduates in Arts will be required to pass the first and second years' examinations, but may take the third and fourth year at the end of the third year.

17. Students who are or have been required by the regulations of the Council to go up for any Annual Examination, and who have refused or refuse to do so, will lose one year for each such refusal.

**FEEES.**

1. The following scale of fees has been established by the Council :

- (a) MATRICULATION EXAMINATION. .... \$10 00  
This fee is payable to the Matriculation Examiners at the beginning of the Examination.
- (b) REGISTRATION OF MATRICULATION :
  - 1. Those examined before the Matriculation Examiners of the College of Physicians and Surgeons of Ontario.....NO CHARGE
  - 2. Those examined by the various Colleges prior to July, 1870.... \$10 00
  - 3. Graduates and Matriculants in Arts of recognized Colleges... 10 00
- (c) " PRIMARY EXAMINATION " AND FIRST, SECOND, AND THIRD " ANNUAL EXAMINATIONS ".....Each 10 00  
These fees are to be paid to the Treasurer of the College before each Examination-
- (d) FINAL EXAMINATION, INCLUDING REGISTRATION, SUCH A FEE AS TOGETHER WITH THOSE ALREADY PAID FOR THE PROFESSIONAL EXAMINATIONS SUCCESSFULLY PASSED, WILL AMOUNT IN ALL TO 50 00  
This fee is payable in the same manner as the last.
- (f) REGISTRATION OF ADDITIONAL DEGREES OR TITLES ..... 2 00  
This fee is only payable when the additional titles are registered at different times, but any number of such titles as are allowed to be registered may be put on record, at the first registration, for the single fee of \$10.
- (g) DIPLOMA OF MEMBERSHIP OF THE COLLEGE ... ..... 5 00  
This Diploma, which is handsomely engraved, and printed upon parchment, is granted free of charge to all those Members of the College who attain their membership by passing the Examinations of the College. All other Members may obtain it on application to the Registrar, by paying the above-named fee of \$5.

(h) "ANNUAL CONTRIBUTIONS" FROM MEMBERS FOR YEAR 1877. .. \$1 00  
 This fee is payable by every Member of the College on the First day of January of each year (see Ontario Medical Act, Sec. XXII., sub-sec. IV). The attention of Members in arrears is particularly requested to this.

2. All fees must be paid in lawful money of Canada, or in gold ; and, except when otherwise specified, are to be paid to the Registrar of the College.

3. No part of the fees paid for examinations will in future be returned to unsuccessful candidates.

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#### TORONTO SCHOOL OF MEDICINE SCHOLARSHIPS.

1st Year, \$50.—1. James H. Dumcam.  
 2. W. E. Hamill.  
 3. John Ferguson.

2nd Year, \$50.—1. W. H. Cross.  
 2. Matthew Wallace.  
 3. David Gould.

3rd Year, \$50.—1. James Adair.  
 2. Franklin Burt.

4th Year, instruments value, \$50.—  
 1. John Herbert Gardiner.  
 2. George Kennedy.  
 3. W. J. G. Grant.

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#### UNIVERSITY OF TORONTO.

The following gentlemen, students of the Toronto School of Medicine, took honours at the Spring Examination of the University of Toronto :—

Gold Medal.—H. S. Griffin.

Silver Medal.—George Kennedy, J. H. Gardiner.

Starr Silver Medal.—H. S. Griffin.

1st Year Scholarship, \$120.—James H. Duncan, W. E. Hamill.

2nd Year Scholarship, \$120.—W. J. Cross.

3rd Year Scholarship, \$120.—Franklin Burt.

# UNIVERSITY OF TORONTO.

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## FACULTY OF MEDICINE,

1878.

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### DEGREE OF M.B.

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

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### ENTRANCE.

Candidates to enter this Faculty 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) they have already matriculated in the Faculty of Arts or in the Faculty of Law in this University.

Before presenting themselves for the Matriculation Examination, Candidates must produce satisfactory certificates of good conduct, and of having completed the sixteenth year of their age.

The ordinary Annual Matriculation Examination (both Pass and Honors) will commence in the latter part of June.

Supplemental Examinations for Matriculation will be held in the latter part of September, at which those who were rejected at the June Examinations, as well as new Candidates, may offer themselves ; but no Honors or Scholarships will be awarded at such supplemental Examination.

The Fee for Matriculation is Five Dollars, and must be paid to

the Registrar at the time the Candidate gives notice of intention to present himself, viz., at least two weeks before the date of commencement of Examination. The Fee for the registration of exemption from this Examination is, for Graduates in Arts from other Universities, Five Dollars; for Matriculants from other Faculties in this University, Three Dollars; for Graduates in Arts of this University, Two Dollars. No Fee is exacted from Graduates in Arts of this University who have taken Honors in the Department of Natural Sciences.

Candidates are required to have matriculated before presenting themselves for any Professional Examination.

Candidates on giving notice of intention to present themselves at the Matriculation Examination are required to signify whether they purpose taking the Pass or Honor Examination. Scholarships are only awarded in connection with the latter.

The following groups of subjects must be passed by every Matriculant :—

- (1) Three out of the four languages, Latin, Greek, French, and German, one of which must be Latin.

#### LATIN.

1878. { CÆSAR, Bellum Britannicum (Bellum Gallicum, B. IV.,  
c. 20-36, B. V., c. 8-23.  
CICERO, Pro Archia.  
VIRGIL, Æneid, B. II., vv. 1-317.
1879. { CÆSAR, Bellum Britannicum.  
CICERO, Pro Archia.  
VIRGIL, Eclog. I., IV., VI., VII., IX.
1880. { CICERO, In Catilinam, II., III., IV.  
VIRGIL, Eclog. I., IV., VI., VII., IX.
1881. { CICERO, In Catilinam, II., III., IV.  
VIRGIL, Æneid B. I., vv. 1-304.

Translation from English into Latin.

#### GREEK.

1878. XENOPHON, Anabasis, B. I.  
1879 & 1880. XENOPHON, Anabasis, B. II.  
1881. XENOPHON, Anabasis, B. V.

## FRENCH.

- 1878 & 1880. SOUVESTER, un philosophe sous les toits.  
 1879 & 1881. EMILE DE BONNECHOSE, Lazare Hoche.  
 Translation from English into French.

## GERMAN.

1878. } SCHILLER, { Die Bürgschaft.  
 1880. } { Der Taucher.  
 1879. } SCHILLER, { Der Gang nach dem Eisenhammer.  
 1881. } { Die Kraniche des Ibycus.

- (2) Mathematics, including Arithmetic, Algebra, to the end of Quadratics, and the First Three Books of Euclid.
- (3) English Grammer and Composition, with the Outlines of History and of Modern Geography, and an exercise in writing to dictation. The following text-books indicate the scope of the examination in Grammar and History : Masson's English Grammar, Freeman's General Sketch of European History, Edith Thompson's History of England.

No Candidate will be allowed to pass the Matriculation Examination unless he has obtained one-third of the aggregate marks allotted to it, and unless in each subject of every group he has obtained at least one-fourth of the marks allotted to such subject.

No wider range of work is required of Candidates for Honors, but extra Honor papers will be set in all the above-mentioned subjects, and special attention will be paid to translation from English into the languages professed by Candidates. A paper on Chemistry will be set for such Honor Students as may enter for the same, and the marks obtained in it will be reckoned in along with the others in the award of Scholarships. Text-book recommended : Roscoe's Elements.

The following is the proportion of marks allotted to each subject in the Honor Matriculation Examination :

(1) Latin .....	200
Greek .....	100
French .....	100
German .....	100

(2) English Grammar and Composition.....	150	
Writing to Dictation.....	50	
Outlines of History.....	100	
Outlines of Geography.....	100	
		—— 400
(3) Arithmetic.....	150	
Algebra.....	150	
Euclid.....	100	
		—— 400
(4) Chemistry.....	100	
		——
Total.....		1400

Those Candidates will be placed in the First Class of Honors who obtain two-thirds or more of the aggregate number of marks mentioned above : those who obtain one-half of the aggregate number will be ranked in the Second Class.

The Matriculation Scholarships will be awarded to the two Candidates who rank first and second respectively in the Examination, provided they have obtained at least sixty per cent. of the aggregate number of marks, exclusive of those allotted to Chemistry.

Candidates for Matriculation may not compete for Honor or Scholarships in two Faculties. Those who have matriculated in a Faculty may not compete for Honors or Scholarships at a subsequent Matriculation Examination in another Faculty.

The above Regulations relating to Matriculation will come into force on the 1st October, 1878

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## REGULATIONS RELATING TO UNDERGRADUATES.

Undergraduates are required to attend Lectures, and receive practical instruction during each of four years, at one or other of the Schools of Medicine recognized for this purpose by the University. The certificates of attendance upon Lectures must mention the precise number of lectures given in each Course, and must certify the attendance of the Candidate at two-thirds of these at least. The Certificates of Practical Instruction must certify that the Candidate has diligently pursued the studies in question for the whole of the time required,

and these must be signed by the teachers in the immediate charge of the Laboratories where the instruction was obtained.

Each Undergraduate, at the end of each of the four years of his Course, is required to present himself at the Annual Examination of that particular year. The Annual Examinations are styled the First, Second, Third, and Fourth Professional Examinations, and are to be passed in separate years in the order named, by all Candidates for the degree.

- (a) In the case of a Candidate being prevented by sickness, domestic affliction, or other causes beyond his control, from attending at one of the Professional Examinations, he may be allowed, on establishing the sufficiency of the cause, to take that examination together with the next following.
- (b) This privilege will not be allowed to a Candidate rejected at a Professional Examination.
- (c) If, however, the Candidate has been rejected in one subject only, having shown fair proficiency in the others, he may be allowed to take that subject along with the work of the next Professional Examination.
- (d) In the case of a Candidate for the First Professional Examination failing to obtain the required percentage in two of the subjects, while he has distinguished himself in all the others, the Board of Examiners may recommend that the subjects passed be allowed to him, and that he shall take the other subjects over again with the work of the Second Professional Examination.

Graduates in Arts of this University with Honours in the Department of Natural Sciences, will be exempted from the First Professional Examination, and from the payment of the fee for the same. They will, however, be required to take the Anatomy of that examination along with the Second Professional Examination.

No Candidate will be allowed to pass any of the Professional Examinations who has not obtained at least one-half of the marks allotted to such Examination. Nor will a candidate be considered as having passed any individual subject who has not obtained at least one-third of the marks allotted to such subject.

N.B.—This regulation will be enforced at once, and will be applicable to Undergraduates going out under the old Statute.

The Fee for each Professional Examination is Two Dollars, payable when the Candidate notifies to the Registrar his intention to present himself. A Candidate who has been rejected at one Professional Examination will be admitted to the same examination in the following year on payment of One Dollar.

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 a Professional Examination must send into the Registrar a statement (according to a printed form which will be furnished) of the course he is taking, whether Pass or Honour, of the Lectures he has attended, and of the practical instruction he has received, with the names of the Teachers and such other particulars as the printed form may indicate, together with the original certificates referred to in the statement.

Certificates required for the different Examinations :—

First Professional—

- (1) Of Matriculation.
- (2) Of having attended Lectures on the following subjects :—
  - (a) Anatomy, a course of at least 100 Lectures.
  - \* (b) Inorganic Chemistry, a course of at least 60 Lectures.
  - (c) Natural Philosophy, “ “ “ 20 “
  - \* (d) Botany, “ “ “ 40 “
  - \* (e) Zoology, “ “ “ 40 “

Of the above Lectures marked \* at least one third must be of the nature of practical lessons involving laboratory practice on the part of the student, and this must be attested to on the same or a separate certificate.

- (3) Of practical instruction in Anatomy during six months.

Second Professional—

- (1) Of having attended Lectures on the following subjects :—
  - (a) Anatomy, a second course of 100 Lectures.
  - (b) Physiology,
  - (c) Materia Medica, and Therapeutics, } Each a course of at least 100 Lectures.
  - (d) Organic Chemistry, a course of at least 40 Lectures.

- (2) Of practical instruction in—
- (a) Anatomy, a second course of 6 months.
  - (b) Histology,
  - (c) Physiological Chemistry, } Each during at least 3 months.
- (3) Of having dissected the parts of the Human Body once.
- (4) Of being skilled in compounding and dispensing drugs.
- (This certificate may be from a registered Practitioner, the Apothecary of a Public Hospital, or of a Public Dispensary, or from a Member of the Pharmaceutical Societies of Ontario or Quebec.)

#### Third Professional—

- (1) Of having attended Lectures on following subjects :—
- (a) Practice of Medicine,
  - (b) Surgery,
  - (c) Obstetrics, &c.,
  - (d) Clinical Surgery and Medicine,
  - (e) General Pathology, course of at least 50 Lectures.
- } During courses of 100 Lectures each.
- (2) Of having dissected the parts of the human body a second time.
- (3) Of practical instruction in Pathological Histology during at least 3 months.

#### Fourth Professional—

- (1) Of having attended Lectures on—
- (a) Clinical Medicine and Surgery, a further course of 100 Lectures.
  - (b) Forensic Medicine, a course of 50 Lectures.
  - (c) Hygiene, “ “ 25 “
  - (d) Medical Psychology “ “ 12 “
- (2) Of practical instruction in Chemistry in its application to Hygiene and Forensic Medicine.
- (3) Of having attended at least 6 Clinics in a Public Lunatic Asylum.
- (4) Of having conducted at least 6 Labours, } Certificates received from any registered Practitioner.
- (5) Of proficiency in Vaccination, }
- (6) Of attendance in the Wards of a Public Hospital accommodating not less than 100 Beds during 18 months.
- (7) Of attendance for 6 months on the Out-practice of a Hospital, Dispensary, or registered Practitioner.
- (8) Of having attended 12 Autopsies.

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### REGULATIONS RELATING TO THE HONOUR COURSE.

Candidates who are taking the Honour Course will be entitled to First Class Honours in any of the Professional Examinations if they obtain seventy-five per cent. of the aggregate marks allotted to such

examination. Those who obtain sixty-six per cent. of the aggregate marks will be entitled to Second Class Honours.

Extra papers on all the Pass Subjects will be set for Honour Candidates, as well as papers on certain Extra Honour Subjects. These are marked with an asterick in the list which follows.

Candidates who proceed to the Degree of M.B. by taking the Honour Course, will be grouped in two classes according to their success in the Honour Examinations. Only those Candidates will receive their degree with First Class Honours who have been placed in the Honour list in all of the Four Professional Examinations, and who have succeeded in obtaining First Class Honours in at least three out of the four. Those candidates will receive their degree with Second Class Honours who have been placed in the Honour List in three out of the four Professional Examinations, and who have succeeded in obtaining First Class Honours in at least one Professional Examination.

Candidates for the Degree of M.B. who are likewise Graduates in Arts of the University with Honours in the Department of Natural Science, will be considered as having passed their First Professional Examination with First Class Honours.

An Undergraduate in the Honour Course, will not be allowed to degrade into a lower year except by special permission of the Senate, to be granted only in case of illness, duly certified, or for other grave reasons, or unless he intends to proceed to his Degree by the Pass Course.

In the list which follows, Text Books have been named after certain subjects to indicate the scope of the Examination, and as there are *separate* written and practical Examinations on each subject, special Text Books are recommended where necessary for the latter.

Subjects of the different Professional Examinations :

#### FIRST PROFESSIONAL EXAMINATION.

- (1) Anatomy of the Bones, Muscles, and Ligaments, and of the Viscera of the Abdomen and Thorax.
- (2) Elements of Inorganic Chemistry. Text Book. Miller's Text Book. (Longmans and Co.)
- (3) Elements of Natural Philosophy. Electricity. Heat and Light.

- (4) Elements of Botany : Including the Characters and Properties of the following Natural orders :

Ranunculaceae, Papaveraceae, Cruciferae, Caryophyllaceae, Malvaceae, Leguminosae, Rosaceae, Saxifragaceae, Onagraceae, Umbelliferae, Rubiaceae, Compositae, Ericaceae, Primulaceae, Scrophulariaceae, Labiatae, Solanaceae, Polygonaceae, Euphorbiaceae, Urticaceae, Amentaceae, Orchidaceae, Liliaceae, Palmae, Cyperaceae, Gramineae.

A further acquaintance with the noxious and medicinal plants of the Canadian Flora is expected.

Text Books.        } Thomé's Text Book of Botany.  
                      } Bentham's Manual.

- (5) Elements of Zoology. Text Book. Macallister's Animal Morphology.

\* Comparative Anatomy of Vertebrata. Text Book. Huxley's Manual of Anatomy of Vertebrates.

\* Practical Examination in Natural Philosophy.

Additional Text Books for Practical work :

Chemistry—Bloxam's Laboratory Practice.

Biology—Huxley and Martin's Elements.

#### SECOND PROFESSIONAL EXAMINATION.

- (1) Elements of Organic Chemistry. Armstrong's Text Book (Longmans & Co.)

(2) Anatomy.

(3) Physiology.

(4) Materia Medica and Therapeutics.

Text Books for Practical Examinations.

For Histological Methods. Handbook for the Physiological Laboratory. (Brunton, Foster, &c.) pp. 1-163.

For Physiological Chemistry. Id., pp. 421-572.

\* Physiology of Muscle, Nerve, Circulation, &c. Id., pp. 165-419.

#### THIRD PROFESSIONAL EXAMINATION.

(1) Practice of Medicine.

(2) Surgery and Surgical Anatomy.

(3) General Pathology, including Morbid Anatomy and the mode of conducting Autopsies.

(4) Obstetrics and Diseases of Women and Children.

(5) Clinical Examinations in Medicine and Surgery.

Text Book for Pathological Histology. Rindfleisch.

## FOURTH PROFESSIONAL EXAMINATION.

- (1) Practice of Medicine.
- (2) Surgery.
- (3) Forensic Medicine.
- (4) Hygiene.
- (5) Medical Psychology.
- (6) Clinical Examinations in Medicine and Surgery.
- (7) Practical Examination in Chemistry in its application to Forensic Medicine and Hygiene.

In all the Professional Examinations special importance will be attached to the practical part, and Candidates are desired to note that in every subject practical examinations will be given to the fullest extent possible.

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 DEGREE OF M.D.

The following are the requisites for admission to the Degree of M.D., viz. :—Having been admitted to the Degree of M.B., being of one year's standing from admission to the Degree of M.B., and having composed an approved Thesis upon some Medical Subject.

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 DEGREES AD EUNDEM.

A Graduate of any of the Universities in Great Britain or Ireland 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.

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 FEES FOR DEGREES.

For the Degree of M.B. . . . . . Six Dollars.  
 For the Degree of M.D. . . . . . Eight Dollars.  
 For admission *ad eundem gradum* . . Ten Dollars.

### SCHOLARSHIPS.

The following Scholarships are annually offered for competition :

At Matriculation .....	one of \$100
“ .....	one of 50
At First Professional Examination.....	one of 120
“ .....	one of 80
At Second Professional Examination ....	one of 120
“ .....	one of 80
At Third Professional Examination ....	one of 120
“ .....	one of 80

The First Year Scholarships are not open to Graduates in Arts with Honours in the Department of Natural Sciences.

Every Student taking a Scholarship is required to sign a declaration that it is his intention to pursue his Medical studies for one, two, three, or four years, according to the year in which he has taken such Scholarship, and to proceed to a Degree in the University of Toronto, and that he is not an Undergraduate or Graduate in the Faculty of Medicine of any other University.

No Professional Scholarship will be awarded to any Candidate who has not obtained First Class Honours in the Examination for which it is conferred.

Each Scholarship is tenable for one year only, but the 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.

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### MEDALS, PRIZES, AND CERTIFICATES OF HONOUR.

A gold medal and three silver medals are offered annually for competition among the Undergraduates who have succeeded in obtaining the degree of M.B., with First Class Honours, and will be awarded according to the percentage of marks in the aggregate results of the Second, Third, and Fourth Professional Examinations; but the gold medal will only be awarded on the special recommendation of the Examiners.

Prizes, each of the Value of Ten Dollars in Books, may be awarded annually among Undergraduates in Law, Medicine, and Arts,

for the best Composition in Greek Verse, Greek Prose, Latin Verse, Latin Prose, English Verse, English Prose, French Prose, or German Prose.

Certificates of Honour will be given to those Students, who, at any of the Examinations, have been placed in the First Class in Honours in any Department.

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### STARR MEDALS.

The late Richard Noble Starr, M.D., devised certain property for the encouragement of the study of the subjects of Anatomy, Physiology and Pathology. In fulfilment of this object the Senate have established one gold and two silver medals, called the "Starr Medals." These Medals are awarded annually at the University Commencement in June, and are conferred upon the three Bachelors of Medicine who have attained, in the course of their Annual Professional Examinations, the highest marks in the above subjects: the relative rank of each Candidate being determined by the aggregate number of his marks in all the examinations, written and practical, pertaining to these, viz.:

The Examinations in Anatomy for the first and second years, and in Surgical Anatomy of the third year.

The Examinations in Physiology, Histology, Physiological Chemistry, and Practical Physiology of the second year.

The Examination in General Pathology and in Morbid Anatomy and Histology of the third year.

Every recipient of the Medal must have attained the standing of First Class in each of the above-mentioned subjects, and must have been classed in Honours in the Fourth Professional Examination.

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The Professional Examinations will be introduced gradually, viz. : First in 1879 ; Second in 1880 ; Third in 1881 ; Fourth in 1882.

At the Examinations of 1879, the Scholarships for the Second and Third Year, and the Medals ; and at the Examinations of 1880, the Scholarships of the Third Year, and the Medals ; and at the Examinations of 1881, the Medals will be awarded according to the Old Curriculum.

# LECTURES.

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WINTER SESSION, 1878-79

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## SURGERY.

DR. W. T. AIKINS.

Inflammation, Surgical Injuries, including Fractures, Dislocations, Injuries to the soft places, and gun-shot wounds. Amputations, Ligation of Arteries, Surgical Diseases, including Abscess, Ulcers, Gangrene, Erysipelas, Pyæmia, Tumours, Aneurisms, and Joint Diseases, Plastic Surgery, Hernia, Urinary Calculus.

Special attention will be paid to the practical parts of Surgery, comprising injuries and diseases which are most frequently met with in Canada. The Lectures will be illustrated by plates and specimens from the Museum of the School, and by operations on the Cadaver.

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## THEORY AND PRACTICE OF MEDICINE.

DR. H. H. WRIGHT.

This course will be divided into two parts, comprising General and Special Pathology.

The first part consisting of Etiology, Nosology, Symptomatology, Pathology, Prophylaxis, Prognosis, and Treatment.

Second Part—1st, General Diseases ; 2nd, Local Diseases.

Special attention will be paid to those diseases which are most frequently met with in Canada. The Lectures will be illustrated by plates and morbid specimens from the Museum of the School.

## DESCRIPTIVE AND SURGICAL ANATOMY.

DR. J. H. RICHARDSON AND DR. M. H. AIKINS.

A complete course on Descriptive and Surgical Anatomy will be given. All the various structures entering into the composition of the human frame will be exhibited and described, the Lectures being illustrated by freshly dissected specimens, dried and wet preparations, wax moulds, and diagrams.

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## MIDWIFERY.

DR. U. OGDEN.

Anatomy of the Female Pelvis and Fœtal Head; Anatomy of Organs of Generation.

Menstruation; Generation; Pregnancy.

Signs of Pregnancy; Diseases of Pregnancy.

Parturition —I. Natural Labor; its general phenomena; Mechanism of Labor; Management of Natural Labor; Anæsthetics.

The Puerperal State.

II. Unnatural Labor; (*a*) From abnormal condition of the expulsive force; (*b*) From abnormal condition of the uterus, soft parts, or bony pelvis. Treatment of these abnormal conditions. Use of Forceps; Craniotomy; Turning.

III. Complex Labor; Retained Placenta; Uterine Hæmorrhage; Puerperal Convulsions; Puerperal Fever.

Diseases of Women: The more common diseases and displacement of the uterus.

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## MATERIA-MEDICA AND THERAPEUTICS.

DR. THORBURN.

All the important remedial agents will be discussed, comprising an account of (1) the Natural History; (2) Mode of Preparation ordered in the British Pharmacopœia; (3) Physical and Chemical properties,

impurities, adulterations, and tests ; (4) Effects on the System in medicinal and poisonous doses ; their uses, and the diseases in which they may be advantageously employed ; (5) Doses, mode of administration, incompatibles, and antidotes.

The course will be illustrated by a collection of specimens.

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## PHYSIOLOGY.

DR. M. BARRETT.

Structural and Chemical Composition of the Body.

Tissues, Epithelium, Connective Tissue, Cartilage, and Bone.

Serous and Mucous Membranes.

Blood, Circulation of the Blood. The Heart, Arteries, Capillaries, and Veins.

Respiration.

Digestion, Absorption, Glandular System, Nutrition, Animal Heat, Secretion and Excretion, Nervous System, Motion, Special Senses, Reproduction, Embryology, and Development.

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## CHEMISTRY.

DR. J. E. GRAHAM.

The course will include the following subjects : Chemical Physics, Specific Gravity, Cohesion, Crystallization, Dialysis, Heat, Light, and Electricity.

**INORGANIC CHEMISTRY.**—The preparation and properties of the non-metallic elements and their compounds. The laws of Chemical combination deducible therefrom. The Chemistry of the most important metals and their compounds ; the modes of preparing and detecting them.

**ORGANIC CHEMISTRY.**—An outline of the groups into which organic bodies are divided ; the methods of determining their composition both by analysis and synthesis ; the modes of preparing them, and their general characters. Application of Chemical analysis to Toxicology.

## MEDICAL JURISPRUDENCE AND TOXICOLOGY.

DR. W. W. OGDEN.

**HUMAN DEVELOPMENT AND DECAY.**—Medical evidence derivable from these. Personal identity ; effects of *time* and *circumstances* with means of determining. Marriage and divorce, with special physical and other conditions necessary to the validity of the former and required for the latter. Pregnancy concealed and pretended ; with means of determining. Delivery ; signs of near and remote. Mental Alienation including the various forms of diseased mind ; with causes and means of averting. Rape ; Infanticide ; Homicide ; Hanging ; Drowning ; Mephitism, etc. etc. ; Death by Starvation, by Heat and Cold ; Lightning ; Wounds before and after death ; Burns, Scalds, etc., etc.

**TOXICOLOGY.**—Under the latter, poisons are grouped according to their effects, the general symptoms of various groups or classes, with general treatment, and also the special effects, if any, are brought out. An effort is made to simplify the study of the subject as much as possible, and render its acquirement a matter of comparative ease, and of *real interest* if not of delight.

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## SANITARY SCIENCE.

DR. OLDRIGHT.

IN ITS PHYSIOLOGICAL AND PATHOLOGICAL ASPECTS.

**AIR :** Impurities and effects, how caused and how obviated ; Modes of Examination ; Ventilation, disinfection and other modes of purification.

**SEWAGE :** Disposal and Utilization ; dry, wet, and air methods ; construction, ventilation, and cleansing of Sewers.

CONTAGION AND INFECTION.

CLIMATOLOGY : Soils, Winds, Vegetation, Heat and Cold Warming.

HYGIENIC ARCHITECTURE. CLOTHING. BATHS.

**WATER :** Sources ; varying Composition and Impurities ; their effects ; how removed and prevented ; modes of examination.

FOODS: Comparative Values, Impurities—their effects, their detection.

SLEEP. EXERCISE. OCCUPATION. MODE OF LIFE.

SANITARY LEGISLATION, present and prospective, of various countries.

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### BOTANY.

DR. R. A. REEVE.

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### STRUCTURAL BOTANY.

Vegetable Anatomy and Physiology, including Histology.

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### COMPARATIVE ANATOMY.

BY PROFESSOR RAMSAY WRIGHT.

Students may attend the Lectures given at University College.

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### PRACTICAL ANATOMY.

DR. MCFARLANE AND DR. GEORGE WRIGHT:

The Demonstrators attend daily in the dissecting-room, for the purpose of directing students in their dissections, and examining them on dissected parts.

The Dissecting-room will be open daily from 9 A.M. to 6 P.M.

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### MICROSCOPICAL ANATOMY.

DR. ZIMMERMAN AND DR. F. H. WRIGHT:

This course will comprise demonstrations of the various tissues, organs, and fluids of the body; instruction in the use of the microscope, demonstrations of the various Pathological conditions of the body; the use of the microscope in diagnosis of disease.

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### OPHTHALMIC AND AURAL SURGERY.

A short course of practical lectures will be given on Diseases of the Eye and Ear, illustrated by cases at the Toronto General Hospital.

