

# HONOURS BSC OPHTHALMIC MEDICAL TECHNOLOGY

As the diagnosis and treatment of eye diseases, known as ophthalmic medicine, steadily grows in complexity, the demand for health care workers with specialized knowledge and skills in ophthalmic medical technology is growing as well. Ophthalmic medical technologists work with leading-edge equipment, including lasers and imaging systems, to provide quality patient care.

This bachelor's degree program provides students with a two-year foundation in core sciences, followed by third- and fourth-year studies that specialize in ophthalmic medical technology and visual science. The academic training of students registered in the third and fourth years of the program takes place at the University of Ottawa Eye Institute, located on the general campus of the Ottawa Hospital. This program combines clinical, hands-on experience with theoretical training.

Acceptance into the third year of this bachelor's degree program is competitive and includes an interview with the admissions committee. To be considered, students must have successfully completed two full years of prerequisite courses (60 units) with a minimum CGPA of 6.0. The committee selects candidates on the basis of many factors, and it may consider strong, well-rounded candidates from a science background who may or may not have completed all the prerequisites. Each year, a maximum of four students are selected and students should be aware that meeting the basic requirements does not guarantee admission to the program.

Interested students are encouraged to make arrangements to tour the facilities and meet with faculty members and students currently enrolled in the program (appointment required). For more information, please contact Ginette Snook, Departmental Education Program Coordinator, at Gsnook@ottawahospital.on.ca or call 613-737-8899 extension 79422.

The first two years of this program are offered in English and in French. The last two years are only offered in English.

## Program Requirements

Requirements for this program have been modified. Please consult the 2015-2016 calendars (<http://www.uottawa.ca/academic/info/regist/1516/calendars/>) for the previous requirements.

|   |  |         |
|---|--|---------|
| BIO 1130  | Introduction to Organismal Biology         | 3 Units |
| BIO 1140  | Introduction to Cell and Molecular Biology | 3 Units |
| CHM 1311  | Principles of Chemistry                    | 3 Units |
| CHM 1321  | Organic Chemistry I                        | 3 Units |
| ENG 1100  | Workshop in Essay Writing                  | 3 Units |
| MAT 1330  | Calculus for the Life Sciences I           | 3 Units |
| MAT 1332  | Calculus for the Life Sciences II          | 3 Units |
| PHY 1321  | Principles of Physics I                    | 3 Units |
| PHY 1322  | Principles of Physics II                   | 3 Units |
| 3 course units from:                              |  | 3 Units |
| HSS 1101 Determinants of Health                   |  |         |
| PSY 1102 Introduction to Psychology: Applications |  |         |
| BCH 2333  | Introduction to Biochemistry               | 3 Units |
| BIO 2133  | Genetics                                   | 3 Units |
| CHM 2120  | Organic Chemistry II                       | 3 Units |

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| CHM 2123   | Laboratory of Organic Chemistry II                                 | 3 Units  |
| MAT 2379   | Introduction to Biostatistics                                      | 3 Units  |
| PHI 2396   | Bioethics  | 3 Units  |
| HSS 3101   | Health Research: Quantitative and Qualitative Approaches           | 3 Units  |
| OMT 3122   | Ocular Anatomy and Physiology                                      | 3 Units  |
| OMT 3123   | Optics and Refraction  | 3 Units  |
| OMT 3124   | Basic Diagnostics I  | 3 Units  |
| OMT 3125   | Clinical Application I <sup>1</sup>                                | 3 Units  |
| OMT 3126   | Ophthalmic Subspecialties  | 3 Units  |
| OMT 3127   | Basics Diagnostics II  | 3 Units  |
| OMT 3128   | Ophthalmic Basic Science Seminars <sup>1</sup>                     | 3 Units  |
| OMT 3231   | Introduction to Ophthalmic Technology: Basic Skills-I <sup>1</sup> | 6 Units  |
| OMT 4122   | Advanced Diagnostics I   | 3 Units  |
| OMT 4123   | Ophthalmic Pharmacology and Microbiology                           | 3 Units  |
| OMT 4125   | Ophthalmic Basic Science Seminars <sup>1</sup>                     | 3 Units  |
| OMT 4126   | Specialized Diagnostics  | 3 Units  |
| OMT 4127   | Advanced Diagnostics II  | 3 Units  |
| OMT 4128   | Ophthalmic Abnormalities and Disorders                             | 3 Units  |
| OMT 4201   | Ophthalmic Technology: Basic Skills II <sup>1</sup>                | 6 Units  |
| OMT 4224   | Clinical Application-II <sup>1</sup>                               | 6 Units  |
| 12 optional course units at the 2000, 3000 or 4000 level offered by the Faculty of Science |  | 12 Units |

**Total:** **120 Units**

### Note(s)

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This course runs from September to April.