

| <b>Honours in Biology (132 credits)</b>  | <b>Honours in Biology (122 credits)<br/>Program abolished</b>  |
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| <b>Requirements<br/>2003-2005</b>  | <b>New course codes<br/>2006</b>   |
| Compulsory first-year credits: <span style="float: right;">34</span><br>Suggested course stream for full-time students   | Compulsory first-year credits: <span style="float: right;">27</span><br>Suggested course stream for full-time students   |
| <b>Fall:</b>   | <b>Fall:</b>   |
| <del>BIO1120</del> Introduction to Organismal Biology <span style="float: right;">-4</span>  | <b>BIO1130</b> Introduction to Organismal Biology <span style="float: right;">3</span>   |
| <del>CHM1310</del> Principles of Chemistry <span style="float: right;">-4</span>   | <b>CHM1311</b> Principles of Chemistry <span style="float: right;">3</span>  |
| <del>MAT1320</del> Calculus I <span style="float: right;">3</span>   | <b>MAT1330</b> Calculus for the Life Sciences I <span style="float: right;">3</span>   |
| <del>PHY1301</del> Principles of Physics I <span style="float: right;">3</span>  | <b>PHY1321</b> Principles of Physics I <span style="float: right;">3</span>  |
| <b>Winter:</b>   | <b>Winter:</b>   |
| <del>BIO1110</del> Introduction to Cell Biology <span style="float: right;">-4</span>  | <b>BIO1140</b> Introduction to Cell Biology <span style="float: right;">3</span>   |
| <del>CHM1320</del> Organic Chemistry I <span style="float: right;">-4</span>   | <b>CHM1321</b> Organic Chemistry I <span style="float: right;">3</span>  |
| ENG1100 Workshop in Essay Writing <span style="float: right;">3</span>   | ENG1100 Workshop in Essay Writing <span style="float: right;">3</span>   |
| <del>MAT1323</del> Calculus and Matrix Algebra <span style="float: right;">-3</span>   | <b>MAT1332</b> Calculus for the Life Sciences II <span style="float: right;">3</span>  |
| <del>PHY1302</del> Principles of Physics II <span style="float: right;">3</span>   | <b>PHY1322</b> Principles of Physics II <span style="float: right;">3</span>   |
| 3 credits of non-science electives <span style="float: right;">3</span>  | 3 credits of non-science electives <span style="float: right;">3</span>  |
| Compulsory second-year credits <span style="float: right;">30</span>   | Compulsory second-year credits <span style="float: right;">24</span>   |
| <b>Fall:</b>   | <b>Fall:</b>   |
| <del>BIO2109</del> Ecology <span style="float: right;">-4</span>   | <b>BIO2129</b> Ecology <span style="float: right;">3</span>  |
| <del>BIO2127</del> Introduction to Plant Science: Biodiversity to Biotechnology <span style="float: right;">-5</span>  | <b>BIO2137</b> Introduction to Plant Science: Biodiversity to Biotechnology <span style="float: right;">3</span>   |
| CHM2120 Organic Chemistry II <span style="float: right;">3</span>  | CHM2120 Organic Chemistry II <span style="float: right;">3</span>  |
| CHM2132 Physical Chemistry for the Life Sciences <span style="float: right;">3</span>  | CHM2132 Physical Chemistry for the Life Sciences <span style="float: right;">3</span>  |
| MAT2378 Probability and Statistics for the Natural Sciences <span style="float: right;">3</span>   | MAT2378 Probability and Statistics for the Natural Sciences <span style="float: right;">3</span>   |
| <b>Winter:</b>   | <b>Winter:</b>   |
| <del>BIO2123</del> Genetics <span style="float: right;">-4</span>  | <b>BIO2133</b> Genetics <span style="float: right;">3</span>   |
| <del>BIO2125</del> Animal Form and Function <span style="float: right;">-5</span>  | <b>BIO2135</b> Animal Form and Function <span style="float: right;">3</span>   |
| <del>BCH2140</del> Introduction to Biochemistry <span style="float: right;">3</span>   | <b>BCH2333</b> Introduction to Biochemistry <span style="float: right;">3</span>   |
| 3 credits of non-science electives <span style="float: right;">3</span>  | 3 credits of non-science electives <span style="float: right;">3</span>  |
| Compulsory third-year courses <span style="float: right;">32</span>  | Compulsory third-year courses <span style="float: right;">32</span>  |
| Twenty-five of the 32 credits must be in biology courses at the 3000 and/or 4000-level. A minimum of three credits of laboratory or field work must be included among the 25 credits in biology. | Twenty-five of the 32 credits must be in biology courses at the 3000 and/or 4000-level. A minimum of three credits of laboratory or field work must be included among the 25 credits in biology. |
| This means either one laboratory course of three credits or two courses with a laboratory or field component.  | This means either one laboratory course of three credits or two courses with a laboratory or field component.  |
| Exceptionally, some courses offered by the Faculty of Science and taught by biology professors, can be considered as biology credits. Consult the Department.                                    | Exceptionally, some courses offered by the Faculty of Science and taught by biology professors, can be considered as biology credits. Consult the Department.                                    |

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| <p>Courses offered by the “Ontario Universities Program Field Biology” apply, consult the Department.</p>   | <p>Courses offered by the “Ontario Universities Program Field Biology” apply, consult the Department.</p>   |
| <p>Exceptionally, courses PHS3240 and PHA4107, CSI and MIC are recognized as science electives, but cannot count as biology credits.</p>  | <p>Exceptionally, courses PHS3240 and PHA4107, CSI and MIC are recognized as science electives, but cannot count as biology credits.</p>  |
| <p>6 credits of non-science electives</p>   | <p>6 credits of non-science electives</p>   |
| <p>Credits of non-science electives must be taken outside the Faculty of Science, Engineering and Medicine</p>  | <p>Credits of non-science electives must be taken outside the Faculty of Science, Engineering and Medicine</p>  |
| <p>Compulsory fourth-year credits</p>   | <p>Compulsory fourth-year credits</p>   |
| <p><del>BIO4000</del> Séminaire / Seminar</p>   | <p><b>BIO4900 Séminaire / Seminar</b></p>   |
| <p><del>Nineteen</del> credits in biology at the 3000-and/or 4000-level</p>   | <p><b>Eighteen</b> credits in biology at the 3000-and/or 4000-level</p>   |
| <p>If selected, BIO4004 or BIO4009 must be taken concurrently with BIO4000 during one academic year. BIO4004 and BIO4009 have limited enrolments.</p>   | <p>If selected, BIO4004 or BIO4009 must be taken concurrently with <b>BIO4900</b> during one academic year. BIO4004 and BIO4009 have limited enrolments.</p>  |
| <p>Honours Research Projects – BIO4004 and BIO4009</p>  | <p>Honours Research Projects – BIO4004 and BIO4009</p>  |
| <p>All honours research projects must be approved by the Department prior to their initiation. Students are advised to discuss potential research projects with professors before the beginning of the fourth year. Under special circumstances, and with prior approval, a student may be permitted to do a research project outside the department. The student must show that he or she has made a serious effort to find an internal supervisor for an honours project before permission will be given to undertake such a project with a professor outside the department. A departmental professor must co-supervise the project.</p> | <p>All honours research projects must be approved by the Department prior to their initiation. Students are advised to discuss potential research projects with professors before the beginning of the fourth year. Under special circumstances, and with prior approval, a student may be permitted to do a research project outside the department. The student must show that he or she has made a serious effort to find an internal supervisor for an honours project before permission will be given to undertake such a project with a professor outside the department. A departmental professor must co-supervise the project.</p> |