HONOURS BSC IN BIOLOGY

Recent discoveries and new technologies are revolutionizing the biological sciences, placing increasing emphasis on integrating knowledge across all levels of organization, from molecules to ecosystems.

Our programs give students both the intellectual tools and the hands-on experience they need to generate new knowledge and contribute to debates on issues as diverse as land management, conservation and endangered species, disease prevention and management, stem cell research and genetically modified organisms.

Learning takes place through traditional classroom instruction, innovative laboratory projects with state-of-the-art technologies and a strong basic research program in which undergraduate students at all levels are intensively mentored in a research lab.

The Honours program in biology provides the opportunity for in-depth study within one or more biological disciplines. Students can concentrate in a particular area by choosing one of three options—cellular and molecular biology, physiology and ecology, evolution and behaviour. This route includes a compulsory independent research project designed to prepare students for graduate studies. Alternatively, students can choose to pursue diverse interests by selecting a general course of study that will include a number of advanced courses.

The major in biology introduces students to cell biology, genetics, evolution, ecology and physiology (both plant and animal). The major is combined with either another major or a minor and allows students to pursue diverse interests while opening the door to graduate studies or a career in the life sciences.

The minor in biology is a flexible program that allows students to select a subset of biology courses.

This program is offered in English and in French.

Program Requirements

Co-operative education is available with this program.

The extended French stream is available with this program.

Program Requirements

Co-operative education is available with this program.

Program Requirements

Co-operative education is available with this program.

Program Requirements

Co-operative education is available with this program.

Program Requirements

Co-operative education is available with this program.

Program Requirements

Co-operative education is available with this program.

Program Requirements

Co-operative education is available with this program.

Program Requirements

Co-operative education is available with this program.

Program Requirements

Co-operative education is available with this program.

Program Requirements

Co-operative education is available with this program.

Program Requirements

Co-operative education is available with this program.

Program Requirements

Co-operative education is available with this program.

Program Requirements

Co-operative education is available with this program.

Program Requirements

Co-operative education is available with this program.

Program Requirements

Co-operative education is available with this program.

Program Requirements

Co-operative education is available with this program.

Program Requirements

Co-operative education is available with this program.

Program Requirements

Co-operative education is available with this program.

Program Requirements
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 3333</td>
<td>Entomology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 3334</td>
<td>Invertebrate Zoology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 3360</td>
<td>Computational Tools for Biological Sciences</td>
<td>3</td>
</tr>
<tr>
<td>BIO 3924</td>
<td>Biology of Algae and Fungi</td>
<td>3</td>
</tr>
<tr>
<td>BIO 4004</td>
<td>Honours Research</td>
<td>3</td>
</tr>
<tr>
<td>BIO 4009</td>
<td>Honours Research</td>
<td>9</td>
</tr>
<tr>
<td>BIO 4122</td>
<td>Experiments in Animal Behaviour</td>
<td>3</td>
</tr>
<tr>
<td>BIO 4148</td>
<td>Phylogenetic Systematics</td>
<td>3</td>
</tr>
<tr>
<td>BIO 4150</td>
<td>Spatial Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 4156</td>
<td>Freshwater Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 4158</td>
<td>Applied Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>BIO 4910</td>
<td>Field Course in Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BPS 4104</td>
<td>Bioinformatics Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BPS 4127</td>
<td>Advanced Techniques in Biosciences</td>
<td>3</td>
</tr>
</tbody>
</table>