MAJOR IN CHEMISTRY

Chemistry is a modern, dynamic and diverse field that involves investigating the substances that make up our physical world and how they change. Chemistry touches everything we come into contact with. It is connected to almost all areas of science and engineering. For example, chemists play a vital role in developing new drugs, understanding and modifying biological processes and making materials for advanced electronic devices. Chemists are also important players in such diverse areas as genetic engineering, forensic science and the oil and gas industry. More recently, chemists have been at the forefront of nanotechnology and emerging green technologies, particularly in the development of sustainable energy sources.

The Department of Chemistry and Biomolecular Sciences at the Faculty of Science offers chemistry, biochemistry and biopharmaceutical science programs with unique options in medicinal chemistry, genomics, advanced materials chemistry, ecochemistry and chemical biology. In addition to classroom teaching, programs offer practical laboratory training with a focus on individual instruction.

This program is offered in English and in French.

Program Requirements

Co-operative education is available when taken as part of an honours degree.

The extended French stream is available when taken as part of an honours degree.

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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>CHM 1311</td>
<td>Principles of Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHM 1321</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 1320</td>
<td>Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MAT 1322</td>
<td>Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 1121</td>
<td>Fundamentals of Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 1122</td>
<td>Fundamentals of Physics II</td>
<td>3</td>
</tr>
<tr>
<td>BCH 2333</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2120</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2123</td>
<td>Laboratory of Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2131</td>
<td>Chemical Thermodynamics of Gases and Solutions</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2330</td>
<td>Physical Chemistry: Introduction to the Molecular Properties of Matter</td>
<td>3</td>
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<tr>
<td>CHM 2353</td>
<td>Descriptive Inorganic Chemistry</td>
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<tr>
<td>CHM 2354</td>
<td>Analytical Chemistry</td>
<td>3</td>
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<tr>
<td>3 optional course units in chemistry (CHM) at the 2000, 3000 or 4000 level</td>
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<tr>
<td>12 optional course units in chemistry (CHM) at the 3000 or 4000 level</td>
<td>12</td>
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<tr>
<td>6 optional course units in chemistry (CHM) at the 4000 level</td>
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<td>Total:</td>
<td></td>
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</table>

This message is intended for students registered in the Faculty of Science. If the components of your program of study require common compulsory courses, you will have to replace the units as follows:

1. 1000-level courses must be replaced with elective course units;
2. 2000-level courses and above must be replaced with optional course units from either discipline at the same level or above.

Please note that all programs in the Faculty of Science require a minimum of 12 elective course units from the Faculty of Arts, the Faculty of Education, the Faculty of Law, the Faculty of Social Sciences or the Telfer School of Management. Once you have decided on the replacement courses, please inform the Office of Undergraduate Programs of the Faculty of Science by email at infosci@uOttawa.ca so that we may amend your Academic Advisement accordingly.