

# SPECIALIZATION IN BIOLOGY

20.0 Credits

This form is a guide only. Students are responsible to meet all requirements.

For complete information and UPDATES see the Academic Calendar

Year 1 ( 5.0 Courses)	Graduation Requirements										
<p><a href="#">Biology 1001A</a> and Biology 1002B -minimum 60% in each credit. Chemistry 1301A and 1302B.</p>	<p><b>Breadth Requirement:</b></p> <ul style="list-style-type: none"> <li>1.0 course from each of the three categories A, B and C. Please see Academic Calendar for selections.</li> </ul> <p><b>Essay Requirement:</b></p> <ul style="list-style-type: none"> <li>2.0 essays at UWO (1.0 must be senior level course)</li> </ul> <p><b>Senior Courses:</b></p> <ul style="list-style-type: none"> <li>13.0 senior courses (numbered 2000-4999)</li> </ul> <p><b>Lab Course Requirement:</b></p> <ul style="list-style-type: none"> <li><b>***at least 1.5 Biology courses</b> with labs from the list of 5.0 courses. ( not including Bio 2290F/G, 2601A/B)</li> </ul> <p><b>Average Requirements:</b></p> <ul style="list-style-type: none"> <li>minimum overall average of 60% on the 20.0 courses</li> <li>Cumulative average of at least 60% on module.</li> </ul> <p><b>Residency Requirement:</b></p> <ul style="list-style-type: none"> <li>Majority of courses in module must be completed through UWO</li> </ul> <p><b>*Note:</b> To graduate with a <b>BSc</b>, you must have a total of at least 11.0 <b>SCIENCE</b> courses</p>										
<p>1.0 course from: <a href="#">Calculus 1000A/B</a> or <a href="#">Calculus 1500A/B</a>, <a href="#">Calculus 1301A/B</a> or <a href="#">Calculus 1501A/B</a>, <a href="#">Mathematics 1225A/B</a>, <a href="#">Mathematics 1228A/B</a>, <a href="#">Mathematics 1229A/B</a> or <a href="#">Mathematics 1600A/B</a>, <a href="#">Data Science 1000A/B</a>, <a href="#">Applied Mathematics 1201A/B</a>, <a href="#">Numerical and Mathematical Methods 1411A/B</a>, <a href="#">Numerical and Mathematical Methods 1412A/B</a>, <a href="#">Numerical and Mathematical Methods 1414A/B</a>; If not completed in first year, the Mathematics/and or Physics requirement must be completed <b>by the end of second year</b>.</p>											
<p>0.5 course from: <a href="#">Physics 1201A/B</a>, <a href="#">Physics 1401A/B</a>, <a href="#">Physics 1501A/B</a>; Note: <a href="#">Physics 1101A/B</a> with a minimum mark of 65% can be used to replace <a href="#">Physics 1201A/B</a>.</p>											
<p>1.0 -1.5 options</p>											
<p><b>NOTE:</b> 1.0 option in first year must be chosen from either the Faculty of Arts or one other Faculty</p>											
<p><b>Admission to Specialization Module:</b> Complete first year (5.0 courses) including:</p> <ul style="list-style-type: none"> <li><a href="#">Biology 1001A</a> and 1002B with a minimum of 60%.</li> <li>Chemistry 1301A and 1302B.</li> <li>1.0 option</li> </ul>											
<p><b>MODULE (9.0 Courses)</b></p>											
<p>2.5 courses: Biochemistry 2280A, Biology 2290F/G, 2382A/B, 2483A/B, 2581A/B.</p>											
<p>0.5 course: Chemistry 2213A/B</p>											
<p>0.5 course: from Biology 2601A/B</p>											
<p>0.5 course from: Biology 2244A/B, Statistical Sciences 2244A/B.</p>											
<p>5.0 courses at the 2200 level or above, chosen from the Biology and Medical Science departments, of which at least 4.0 courses <b>must</b> be chosen from the Department of Biology. <b>***1.5 labs are required from the above.</b></p> <p><b>A maximum of 1.0 course may be at the 2200 -2999 level.</b> Note Pharmacology 2060A/B may be used in this module. Physiology 2130 is not appropriate.</p>	<p style="text-align: center;"><b>Department Recommendation for the order in which certain courses should be taken:</b></p> <p style="text-align: center;"><b>Second Year</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Biochem 2280A</td> <td>Bio 2290F/G</td> </tr> <tr> <td>Bio 2483A/B</td> <td>Bio 2581B</td> </tr> <tr> <td>Bio 2601A</td> <td>Bio 2382A/B</td> </tr> <tr> <td>Chem 2213A/B</td> <td>Bio 2244A/B (or equiv)</td> </tr> <tr> <td colspan="2">1.0 option course</td> </tr> </tbody> </table> <p><b>Third Year &amp; Fourth Year:</b> Completion of courses for the Biology module. If Honors is desired please see the advising assistant for permission to access 4000 level courses while aiming for the honors designation.</p>	Biochem 2280A	Bio 2290F/G	Bio 2483A/B	Bio 2581B	Bio 2601A	Bio 2382A/B	Chem 2213A/B	Bio 2244A/B (or equiv)	1.0 option course	
Biochem 2280A		Bio 2290F/G									
Bio 2483A/B		Bio 2581B									
Bio 2601A		Bio 2382A/B									
Chem 2213A/B		Bio 2244A/B (or equiv)									
1.0 option course											
<p><b>Progression Requirements</b> <b>Minimum Cumulative modular average of 60%, and overall average for the degree of 60%.</b> <b>Passing grade in each option.</b></p> <p><b>Biology Core</b> Courses should be completed by the end of year 3. Check prerequisites for 3000 level courses of interest so prerequisites are met prior to registering for the courses.</p>											
<p><a href="http://www.uwo.ca/biology">www.uwo.ca/biology</a> Updated March 2026.</p>											