



## Quick Reference: Biochemistry and Molecular Biology Degree Requirements




**Core degree requirements (including minimum grade requirements) for all  
Biochemistry and Molecular Biology 120 credit hour Major or Honours programs:**

Year	Courses	Description
I	CHEM 1011 & 1012 BIOL 1010 & 1011 MATH/STAT Writing Class	Concepts in Chemistry (or equivalent) – <b>B- or better for BIOC 2610</b> Principles of Biology (or equivalent) – <b>B- or better for BIOC 2610</b> 6 credit hours (MATH 1000 or 1215; and, STAT 1060 or MATH 1010 or 1030) SCIE 1111 [3 credit hours] <u>or</u> 6 approved credit hours
II	BIOC 2300 BIOC 2610 BIOL 2020 BIOL 2030 CHEM 2201  CHEM 2401 & 2402	Introduction to Biochemistry – <b>B- or better for BIOC 3300 &amp; 3700</b> Biochemistry Laboratory Methods & Techniques – <b>B- or better for BIOC 3700</b> Cell Biology – <b>B- or better for BIOC 3400</b> Genetics and Molecular Biology – <b>B- or better for BIOC 3400</b> Introductory Analytical Chemistry. <i>Note: recommended but not required for double major/combined honours. (Required for programs with Chemistry.)</i> Introductory Organic Chemistry – <b>B- or better for BIOC 3700</b>
III	BIOC 3300 BIOC 3400 BIOC 3700  BIOC 3XXX/4XXX	Cellular and Integrated Metabolism Nucleic Acid Biochemistry & Molecular Biology Biomolecular Chemistry <b>Note: an average grade of B or better for BIOC 3300, 3400 &amp; 3700 is needed for BIOC 4604/4605 (Honours Research Project)</b> Number of credit hours based on program - detailed below
IV	BIOC 3XXX/4XXX	Number of credit hours based on program - detailed below

### Additional BIOC 3XXX/4XXX requirements by degree:

Program	Credit hour requirements
<b>Concentrated Honours in Biochemistry and Molecular Biology</b>	3 credit hours: any BIOC 3XXX or BIOC 4XXX 9 credit hours: BIOC 40XX, 43XX, 44XX, 45XX, 47XX 6 credit hours: any BIOC 4XXX BIOC 4604/4605 (Research Project I & II)
<b>Combined Honours in Biochemistry and Molecular Biology &amp; another subject (B&amp;MB as First subject)</b>	6 credit hours: BIOC 40XX, 43XX, 44XX, 45XX, 47XX BIOC 4604/4605 (Research Project I & II)
<b>Combined Honours in Biochemistry and Molecular Biology &amp; another subject (B&amp;MB as Second subject)</b>	3 credit hours: any BIOC 3XXX or BIOC 4XXX 6 credit hours: BIOC 40XX, 43XX, 44XX, 45XX, 47XX
<b>Major in Biochemistry and Molecular Biology</b>	9 credit hours: any BIOC 3XXX or BIOC 4XXX 6 credit hours: any BIOC 4XXX
<b>Double Major in Biochemistry and Molecular Biology &amp; another subject</b>	3 credit hours: any BIOC 3XXX or BIOC 4XXX 6 credit hours: any BIOC 4XXX

**Note: a grade of C or better is required for you to count a course taken in your Honours subject(s) towards the credit-hour requirements for an Honours degree**

<p><b>Courses outside of BIOC that may be used towards BIOC 3XXX or BIOC 4XXX credit hours:</b> CHEM 3601; CHEM 4601; MICI 4033; PATH 4035; PHAC 4403</p> <p><b>BIOC courses that may be taken as electives but that may <u>not</u> be used as BIOC 3XXX credit hours towards a Major or Honours in B&amp;MB:</b> BIOC 3501; BIOC 3610</p>	<p><b>Full undergraduate handbook &amp; program information:</b></p> <div style="text-align: center;">  </div>
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