



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- or better for BIOC 2610 Principles of Biology (or equivalent) – B- or better for BIOC 2610 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- or better for BIOC 3300 & 3700 Biochemistry Laboratory Methods & Techniques – B- or better for BIOC 3700 & BIOC 3300 (not required for BIOC 3300 after Winter 2025) Cell Biology – B- or better for BIOC 3400 Genetics and Molecular Biology – B- or better for BIOC 3400 Introductory Analytical Chemistry. <i>Note: recommended but not required for double major/combined honours. (Required for programs with Chemistry.)</i> Introductory Organic Chemistry – B- or better for BIOC 3700
III	BIOC 3300 BIOC 3400 BIOC 3700 BIOC 3XXX/4XXX	Intermediary Metabolism Nucleic Acid Biochemistry & Molecular Biology Biomolecular Chemistry Note: an average grade of B or better for BIOC 3300, 3400 & 3700 is needed for BIOC 4604/4605 (Honours Research Project) 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
Concentrated Honours in Biochemistry and Molecular Biology	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)
Combined Honours in Biochemistry and Molecular Biology & another subject (B&MB as First subject)	6 credit hours: BIOC 40XX, 43XX, 44XX, 45XX, 47XX BIOC 4604/4605 (Research Project I & II)
Combined Honours in Biochemistry and Molecular Biology & another subject (B&MB as Second subject)	3 credit hours: any BIOC 3XXX or BIOC 4XXX 6 credit hours: BIOC 40XX, 43XX, 44XX, 45XX, 47XX
Major in Biochemistry and Molecular Biology	9 credit hours: any BIOC 3XXX or BIOC 4XXX 6 credit hours: any BIOC 4XXX
Double Major in Biochemistry and Molecular Biology & another subject	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>Courses outside of BIOC that may be used towards BIOC 3XXX or BIOC 4XXX credit hours: CHEM 3601; CHEM 4601; MICI 4033; PATH 4035; PHAC 4403</p> <p>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&MB: BIOC 3501; BIOC 3610</p>	<p>Full undergraduate handbook & program information:</p> <div style="text-align: center;">  </div>
--	---