

## 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 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 MATH 1010 or 1060) 6 approved credit hours
II	BIOC 2300 BIOC 2610 BIOL 2020 BIOL 2030 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 3300 &amp; 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 Organic Chemistry – <b>B- or better for BIOC 3700</b>
	<b>Required for B&amp;MB Major/Concentrated Honours; Recommended for all other programs:</b>	
	CHEM 2201	Introductory Analytical Chemistry. <i>Ideally taken in year 2 as this is a recommended pre-requisite for BIOC 2610 and BIOC 3700.</i>
III	BIOC 3300 BIOC 3400 BIOC 3700	Intermediary 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>
	BIOC 3XXX/4XXX	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 4409</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&amp;MB: BIOC 3501; BIOC 3610</p>	<p>Full undergraduate handbook &amp; program information:</p> 
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