

2022-2023 Advice Sheet

HONOURS IN BIOCHEMISTRY

Ideally students should have completed Math1000&1001, Chemistry1050&1051, Physics1050(or1020) & 1051(or 1021), Biology1001&1002 and six credit hours in **Critical Reading and Writing (CRW)** courses (including at least 3 credit hours in English courses) before application for admission to the department. It is possible to take Biology in the second year but it increases the number of labs in this year.

For students who must (or choose to) take the lower stream Math and Chemistry courses: Math1001 may be taken in the second year but will decrease timetable options. Students who take Chemistry1010 in the Fall semester should take Chemistry1050 in the Winter semester and Chemistry1051 in the Spring semester or Intersession, depending on when it is offered. It is strongly recommended that Chemistry1051 be completed before beginning the second year of studies. Students must have a mark of at least 60% in Chemistry1051, to register for Chemistry2400, 2301 &2100. Chemistry2301 also has Math prerequisites and Physics recommendations. The suggested program below assumes that all first year requirements are met.

Second year required courses

Chemistry 2400	Chemistry 2401
Chemistry 2301 (or Physics 2053)	Biochemistry 2201*
Statistics 2550 (or equiv)	Biochemistry 2200
Biochemistry 2901	Chemistry 2100 [§]
Elective	Elective
[§] Chemistry 2100 is required in the program but can potentially be taken in a later winter semester. [*] Biochemistry 2201 may be taken concurrently with Chemistry 2400 in 2022-2023.	

Note: For early acceptance into the honours program after second year, students must obtain at least 70% in Biochemistry 2200 and 2201 and Chemistry 2400 and 2401.

Third year required courses

Biochemistry 3206	Biochemistry 3105
Biochemistry 3207	Biochemistry 3108
Biochemistry 3907	Biochemistry 3906
Medicine 310A	Medicine 310B
Elective(s) (From list below** and/or general electives)	Elective(s) (From list below** and/or general electives)
**Choose at least 6 credit hours from Biochemistry 2600, Biology 3050, Chemistry 4201, 4701, or Biochemistry courses at 3000 or 4000 level	

Note: For acceptance into the honours program after third year, students must have a grade of B in each course or an average of 75% or over in Biochemistry courses beyond the 1000 level (including Medicine 310A/B).

Fourth year required courses

Biochemistry 4210 or 4211	Biochemistry 4102
Biochemistry 499A	Biochemistry 499B
Electives (from list below † or general electives)	Electives (from list below † or general electives)
[†] Choose at least 9 credit hours from Biochemistry 4002, 4101, 4103, 4104, 4105, 4200, 4201, 4230, 4231, 4232-4239. Biochemistry 4232 (Enzymes and Receptors) is also available Winter2023	

Those courses in which a grade "B" or an average of 75% or higher are required, as specified under **Academic Standing** in the **Degree Regulations** for the Honours Degree of Bachelor of Science, are 48 credit hours chosen from **specified** biochemistry courses and Medicine 310A/B. Electives must be completed to give a total of 120 credit hours overall in order to receive a degree.

The fine print: The University Calendar defines the requirements for the Bachelor of Science Degree and is the ultimate authority in degree programs. It is your responsibility to ensure you are following the requirements specified in the Calendar. The program outlined above is from the 2022-2023 Calendar and may help you do that.