

MAJOR 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.

The two first year Physics courses are required in the program and if not taken in first year, **must** be taken in second year. Biology 1001&1002 are required in the program and if not taken in first year, should be taken in second year. At least one of these subjects must be taken in first year for entry into the major in second 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*
Biochemistry 2901	Biochemistry 2200
	Chemistry 2100 [§]
Electives	Electives
[§] 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	

Third year required courses

Biochemistry 3206	Biochemistry 3105
Biochemistry 3207	Biochemistry 3108
Biochemistry 3906 or 3907	
Electives (From list below [#] and general electives)	
[#] Six additional credit hours chosen from: Medicine 310A/B, Biochemistry 2600, Biology 2060, 3050, Chemistry 4201, 4701 or Biochemistry courses at the 3000 or 4000 level (can include the second lab course of Biochemistry 3906 or 3907)	

Fourth year required courses

Specified Electives [‡]	Specified Electives [‡]
General electives	General electives
[#] At least 9 credit hours in courses from Biochemistry 4002, 4101, 4103, 4104, 4105, 4200, 4201, 4230, 4231, 4232-4239 Biochemistry 4232 (Enzymes and Receptors) is also available Winter2023	

PLEASE NOTE: *Electives must be completed to give a total of at least 78 credit hours in science courses and a total of 120 credit hours overall in order to receive a degree. Students are encouraged to choose a minor.*

The fine print: The University Calendar defines the requirements for the Bachelor of Science Degree and is the ultimate authority in degree program. 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.