

## 2017-2018 Advice Sheet

### HONOURS IN BIOCHEMISTRY

Ideally students should have completed Math 1000 & 1001, Chemistry 1050 & 1051, Physics 1050 & 1051, Biology 1001 & 1002 and English 1090 & one other first year English 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: Math 1001 may be taken in the second year but will decrease timetable options. Students who take Chemistry 1010 in the Fall semester should take Chemistry 1050 in the Winter semester and Chemistry 1051 in the Spring semester or Intercession, depending on when it is offered. It is strongly recommended that Chemistry 1051 be completed before beginning the second year of studies. Along with Physics and Math prerequisites, a mark of at least 60% in Chemistry 1051 is required in order to register for Chemistry 2301.

The suggested program below assumes that all first year requirements are met.

#### **Second year required courses**

Chemistry 2400	Chemistry 2401
Chemistry 2301	Biochemistry 2101
Statistics 2550 (or equiv)	Biochemistry 2100
Electives	Chemistry 2100 <sup>§</sup>
	Elective
<sup>§</sup> Chemistry 2100 is required in the program but can be taken in a later winter semester. Env Sci 3210 can be used in lieu of Chemistry 2100. Bioc 2600 should be considered winter of second year if you wish to complete it in this program	

Note: For acceptance into the honours program after second year, students must obtain at least 70% in Biochemistry 2100 and 2101 and Chemistry 2400 and 2401.

#### **Third year suggested program**

Biochemistry 3106	Biochemistry 3105
Biochemistry 3107	Biochemistry 3108
Medicine 310A	Medicine 310B
Chemistry 4410 or Chemistry 3411	
Specified elective(s)*	Specified elective(s)*
<sup>*</sup> Choose at least 6 credit hours from Biochemistry 2600, 3203, 4240-4249, Biology 2060, 3050, 3530, 4200 <sup>§</sup> , 4245, 4404, Chemistry 4201, 4701	

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% over Biochemistry, Chemistry and Biology courses beyond the 1000 level.

#### **Fourth year suggested program**

Biochemistry 4210 or 4211	Biochemistry 4102
Biochemistry 499A	Biochemistry 499B
Biochemistry Electives <sup>¶</sup>	Biochemistry Electives <sup>¶</sup>
<sup>¶</sup> Choose at least 12 credit hours from Biochemistry 4002(F), 4101(F), 4103(W), 4104(F), 4105 <sup>§</sup> (W), 4200(W), 4201(W), 4230-4239. <sup>§</sup> credit can be received for only one of Bioc4105 and Biol4200	

**Note:** Those courses in which a grade "B" or an average of 75% or higher are required, as specified in clause 6.5.6(1) of the Regulations for the Honours Degree of Bachelor of Science, are 45 credit hours in Biochemistry courses and 15 credit hours in other courses (beyond the 1000-level) chosen from Biochemistry, Biology, or Chemistry. Biology 2040, 2041, 3820 and the former Chemistry 2600 and 2601 may not be used to meet this requirement. Medicine 310A/B counts as Biochemistry for these 60 credit hours.

**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 2017-2018 Calendar and may help you do that.