

Biotechnology

Department of Biology
Institute of Biochemistry
Faculty of Science

This section presents the requirements for programs in:

- **Biochemistry and Biotechnology - B.Sc. Honours**
- **Biology and Biotechnology - B.Sc. Honours**

Co-operative Education Option is available (see the Co-op section of this Calendar for details.)

Graduation Requirements

In addition to the requirements listed below, students must satisfy:

- the University regulations (see *The Academic Regulations of the University* section of this Calendar),
- the Faculty regulations applying to all B.Sc. students including those relating to Science Continuation and Breadth requirements (see the *Academic Regulations and Requirements for the Bachelor of Science* section of this Calendar).

Students should consult with the Department or Institute responsible for their program when planning their program and selecting courses.

Program Requirements

Biology and Biotechnology B.Sc. Honours (20.0 credits)

A. Credits Included in the Major CGPA (12.5 credits):

- 5.0 credits in BIOL 1003 and BIOL 1004, BIOL 2001, BIOL 2002, BIOL 2104, BIOL 2200, BIOL 2303, BIOL 3104, BIOL 3201, BIOL 4901;
- 0.5 credit from BIOL 3205 or BIOL 3305;
- 0.5 credit from BIOL 4300 or BIOL 4301;
- 1.0 credit from BIOL 4106, BIOL 4109, BIOL 4201, or BIOL 4302;
- 1.0 credit in Biology (BIOL);
- 2.0 credits in BIOC 3100 [1.0], BIOC 3005, BIOC 4004;
- 1.5 credits from BIOL 3101, BIOL 3303, BIOL 4106, BIOL 4109, BIOL 4200, BIOL 4201, BIOL 4202, BIOL 4300, BIOL 4301, BIOC 4001, BIOC 4002, BIOC 4006, CHEM 2101, CHEM 3700, CHEM 3800, TSES 4001, and TSES 4002;
- 1.0 credit in BIOL 4908 [1.0] in an area approved by the Biotechnology Co-ordinator;

B. Credits Not Included in the Major CGPA (7.5 credits):

- 2.0 credits in CHEM 1000 [1.0], CHEM 2203 and CHEM 2204;
- 1.0 credit in PHYS 1003 and PHYS 1004, or PHYS 1007 and PHYS 1008;
- 1.5 credits in MATH 1007, MATH 1107, STAT 2507;
- 0.5 credits in NSCI 1000 or an Approved Arts or Social Sciences elective;
- 1.5 credits in Approved Arts or Social Sciences electives;
- 1.0 credit in free electives.

Biochemistry and Biotechnology B.Sc. Honours (20.0 credits)

A. Credits Included in the Major CGPA (14.5 credits):

- 2.0 Biology credits: BIOL 1003, BIOL 2104, BIOL 3104, BIOL 3201;
- 0.5 credit in BIOL 2001 or BIOL 2002;
- 0.5 credit in BIOL 2303 or BIOL 3301;
- 0.5 credit in BIOL 3205 or BIOL 3305;
- 1.0 credit chosen from BIOL 4106, BIOL 4109, BIOL 4201, BIOL 4300 and BIOL 4301;
- 2.5 credits in BIOC 2200 or the equivalent, BIOC 3005, BIOC 3100 [1.0], BIOC 4001;
- 1.0 credit in BIOC 4907 [1.0] or BIOC 4908 [1.0];
- 1.0 credit from BIOC 4002, BIOC 4004, BIOC 4005, BIOC 4006, BIOC 4007, BIOC 4200, BIOC 4201, BIOC 4400;
- 4.0 credits in CHEM 1000 [1.0], CHEM 2101, CHEM 2203, CHEM 2204, CHEM 2303, CHEM 3201 and CHEM 3506;
- 0.5 credits in CHEM 3202 or CHEM 3205;
- 1.0 credit chosen from the Biochemistry courses listed in 8. above, or BIOL 2001, BIOL 2002, BIOL 3205, BIOL 3305, BIOL 4106, BIOL 4109, BIOL 4201, BIOL 4209, BIOL 4300, BIOL 4301, CHEM 2102, CHEM 3202, CHEM 3205, CHEM 3700, CHEM 3800;

B. Credits Not Included in the Major CGPA (5.5 credits):

- 1.0 credit in PHYS 1003 and PHYS 1004, or PHYS 1007 and PHYS 1008;
- 1.5 credits in MATH 1007, MATH 1107, STAT 2507;
- 0.5 credits in NSCI 1000 or an Approved Arts or Social Sciences elective;
- 1.5 credits in Approved Arts or Social Sciences electives;
- 1.0 credit in free electives.