

COURSE CHART FOR BIOLOGICAL SCIENCES 3- AND 4-YEAR DEGREE PROGRAMS

For details, see 2016–2017 Academic Calendar (<https://umanitoba.ca/student/records/media/2016-2017-Undergraduate-Calendar.pdf>); BSc General (3-year) Degree Academic Regulations p 608–609 (Biological Sciences option p 626) BSc Major or Honours (4-year) p 618–625. In the event of a discrepancy between this simplified chart and the Academic Calendar, the Academic Calendar shall prevail.

	Year 1	Year 2 Theme-specific courses in bold	Years 3 & 4 (note that some 3000 and 4000 level courses require specific 2000-level prerequisites)
General (Biological Sciences option)	BIOL 1020 , 1030 CHEM 1300 , 1310 ; STAT 1000 One of: MATH 1200 , 1220 , 1240 , 1300 , 1310 , 1500 , 1510 , 1520 , or 1690 ; or PHYS 1020 or 1050	BIOL 2300 , 2500 , 2520 One of A: BIOL 2200 , 2210 One of B: BIOL 2240 , 2242 , 2260	6 CH 3000/4000 level BIOL courses
Cell, Molecular and Developmental Biology	BIOL 1020 , 1030 CHEM 1300 , 1310 ; STAT 1000 One of: MATH 1200 , 1220 , 1240 , 1300 , 1310 , 1500 , 1510 , 1520 , or 1690 ; or PHYS 1020 or 1050	BIOL 2300 , 2500 , 2520 One of A: BIOL 2200 , 2210 One of B: BIOL 2240 , 2242 , 2260 One additional from A or B One of CHEM 2770 (MBIO 2770) and CHEM 2780 (MBIO 2780) OR: CHEM 2210, CHEM 2360 (MBIO 2360), and CHEM 2370 (MBIO 2370)	BIOL 3300 One of: BIOL 3400 , 3470 , 3472 BIOL 3542 30 CH 3000/4000 level BIOL courses
Ecology and Environmental Biology	BIOL 1020 , 1030 CHEM 1300 , 1310 ; STAT 1000 One of: MATH 1200 , 1220 , 1240 , 1300 , 1310 , 1500 , 1510 , 1520 , or 1690 ; or PHYS 1020 or 1050	BIOL 2300 , 2500 , 2520 One of A: BIOL 2200 , 2210 One of B: BIOL 2240 , 2242 , 2260 One additional from A or B STAT 2000	BIOL 3300 One of: BIOL 3400 , 3470 , 3472 BIOL 3310, 3312, 3314 21 CH 3000/4000 level BIOL courses
Environmental and Integrative Physiology	BIOL 1020 , 1030 CHEM 1300 , 1310 ; STAT 1000 One of: MATH 1200 , 1220 , 1240 , 1300 , 1310 , 1500 , 1510 , 1520 , or 1690 ; or PHYS 1020 or 1050	BIOL 2300 , 2500 , 2520 One of A: BIOL 2200 , 2210 One of B: BIOL 2240 , 2242 , 2260 One additional from A or B One of CHEM 2770 (MBIO 2770) and CHEM 2780 (MBIO 2780) OR: CHEM 2210, CHEM 2360 (MBIO 2360), and CHEM 2370 (MBIO 2370)	BIOL 3300 One of: BIOL 3400 , 3470 , 3472 Two more of: BIOL 3400, 3452, 3470, 3472 24 CH 3000/4000 level BIOL courses
Evolution and Biodiversity	BIOL 1020 , 1030 CHEM 1300 , 1310 ; STAT 1000 One of: MATH 1200 , 1220 , 1240 , 1300 , 1310 , 1500 , 1510 , 1520 , or 1690 ; or PHYS 1020 or 1050	BIOL 2300 , 2500 , 2520 One of A: BIOL 2200 , 2210 One of B: BIOL 2240 , 2242 , 2260 One additional from A or B	BIOL 3300 One of: BIOL 3400 , 3470 , 3472 One of: BIOL 3360, 4300, 4362 One of B: BIOL 3200, 3242, 3250, 3270, 4212, 4214, 4216, 4218 24 CH 3000/4000 level BIOL courses
Integrative Biology	BIOL 1020 , 1030 CHEM 1300 , 1310 ; STAT 1000 One of: MATH 1200 , 1220 , 1240 , 1300 , 1310 , 1500 , 1510 , 1520 , or 1690 ; or PHYS 1020 or 1050 MBIO 1010	BIOL 2300 , 2500 , 2520 BIOL 2200, 2210, 2240, and 2242 MBIO 2020 One of : CHEM 2770 (MBIO 2770) and CHEM 2780 (MBIO 2780) OR: CHEM 2210, CHEM 2360 (MBIO 2360), and CHEM 2370 (MBIO 2370)	BIOL 3300 One of: BIOL 3400 , 3470 , 3472 6 CH 3000/4000 level MBIO courses 12 CH 3000/4000 level BIOL courses

1. The 3- and 4-year degrees all require 6 CH from the Faculty of Arts, including a required “W” course
2. The above 4-year course charts are for Major students; the Honours program requires BIOL 3100 and BIOL 4100
3. See Academic Calendar for details regarding total number of CH required at each level