

MAJOR IN GENETICS

20.0 Credits

This form is a guide only. Students are responsible to meet all requirements.

For complete information and UPDATES see the Academic Calendar

Year 1 (5.0 Courses)	Graduation Requirements												
Biology 1001A and Biology 1002B with a minimum of 60% in each credit.	Breadth Requirement: 1.0 course from each of the three categories A, B and C. Please see Academic Calendar for selections.												
Chemistry 1301A/B and 1302B.	Essay Requirement: 2.0 essays at UWO (1.0 must be senior level course)												
1.0 course from: Calculus 1000A/B or Calculus 1500A/B , Calculus 1301A/B or Calculus 1501A/B , Mathematics 1225A/B , Mathematics 1228A/B , Mathematics 1229A/B or Mathematics 1600A/B , Data Science 1000A/B , Applied Mathematics 1201A/B , Numerical and Mathematical Methods 1411A/B , Numerical and Mathematical Methods 1412A/B , Numerical and Mathematical Methods 1414A/B ; If not completed in first year, the Mathematics requirement must be completed by the end of second year.	Senior Courses: 13.0 senior courses (numbered 2000-4999)												
0.5 course from: Physics 1201A/B , Physics 1401A/B , Physics 1501A/B ; Note: If not completed in Year 1, the Physics requirement must be completed by the end of Year 2. Note: Physics 1101A/B with a minimum mark of 65% can be used to replace Physics 1201A/B .	Lab Course Requirement: For this module there is no lab requirement.												
1.0 -1.5 options	Average Requirements: - minimum overall average of 60% on the 20.0 courses - Cumulative average of at least 60% on module.												
NOTE: 1.0 option in first year must be chosen from either the Faculty of Arts or one other Faculty other than Science.	Residency Requirement: Majority of courses in module must be completed through UWO												
Admission to the Genetics Major Module: Complete first year (5.0 courses) including: Biology 1001A and Biology 1002B with a minimum mark of 60%. - Chemistry 1301A/B and 1302A/B. 1.0 option (highest mark of 3.0 options)	*Note: To graduate with a BSc, you must have a total of at least 11.0 SCIENCE courses.												
MODULE (6.0 Courses)	Department Recommendation for the order in which certain courses should be taken:												
2.0 courses: Biochemistry 2280A, Biology 2290F/G , 2382A/B, 2581B .													
0.5 course: Biology 2244A/B or Statistical Sciences 2244A/B.													
0.5 course: Biology 3594A , 3595A , 3597A/B .													
0.5 course from: Biology 3596A/B (a 70% in both Biology 2581B and 2290F/G is required for this course													
1.5 from (not already taken above) from: Biology 3466B , 3592A , 3593B , 3594A , 3595A , 3597A/B .													
1.0 course from: Biology 4289A/B , 4540G , 4560B , 4561F , 4562B . Please check prerequisites for 4000 level courses. This module is intended to be in a 4 year degree.													
Progression Requirements Minimum Cumulative modular average of 60%, and overall average for the degree of 60%. For a Non Honors double Major. Biology 2581B and 2290F/G both need a minimum of 70% to progress to third year. Passing grade in each option. If registered in a double module check for any common credits-All second introductory Stats courses are anti-reqs. If uncertain see the Biology counsellor or an Academic counsellor.	<table><tr><th colspan="2">Second Year</th></tr><tr><td>Biochem 2280A</td><td>Bio 2290F/G</td></tr><tr><td>Bio 2244A/B</td><td>Bio 2581B</td></tr><tr><td></td><td>Bio 2382B</td></tr><tr><td>option</td><td></td></tr><tr><td>1.0 option</td><td></td></tr></table> Third Year Completion of courses for the Biology module Ensure that the Breadth and Essay requirements are fulfilled. Fourth Year: completion of the 1.0 @ fourth year. Academic counselling is available through the Biology Department or the Faculty of Science.	Second Year		Biochem 2280A	Bio 2290F/G	Bio 2244A/B	Bio 2581B		Bio 2382B	option		1.0 option	
Second Year													
Biochem 2280A	Bio 2290F/G												
Bio 2244A/B	Bio 2581B												
	Bio 2382B												
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1.0 option													
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