



Western
UNIVERSITY • CANADA

Prepare for Course Enrollment

Science & Basic Medical Sciences

Land Acknowledgement

We/I acknowledge that Western University is located on the traditional territories of the Anishinaabek, Haudenosaunee, Lūnaapéewak, and Chonnonton Nations, on lands connected with the London Township and Sombra Treaties of 1796 and the Dish with One Spoon Covenant Wampum. This land continues to be home to diverse Indigenous Peoples (First Nations, Métis and Inuit) whom we recognize as contemporary stewards of the land and vital contributors of our society.

Congratulations & Welcome to Western Science!

Academic Advising is here to support you with your academic journey at Western. We are dedicated to your academic success – through:

- Advising about the impact of course selection and academic performance on eligibility for modules and degrees
- Discussing your academic pathway – adding a module, changing directions, doing an exchange, letter of permission etc.
- Being a safe, respectful, and friendly office

Degrees & Modules

A module is a collection of courses that defines an area of study. The number of courses included in the module is defined by the amount of specialization in the topic.

There are four possible modules of study which may be entered after first-year:

- Honours Specialization (9.0 or more specified courses)
- Specialization (9.0 or more specified courses)
- Major (6.0 – 7.0 specified courses)
- Minor (4.0 – 5.0 specified courses)

Modules can be combined in three different degree-types:

Degree Type	Module Combinations
Honours Bachelor Degree (4 Years/20 Courses)	<ul style="list-style-type: none">• Honours Specialization• Honours Specialization–Major• Honours Specialization–Minor• Major–Major
Bachelor Degree (4 Years/20 Courses)	<ul style="list-style-type: none">• Specialization• Specialization–Major• Specialization–Minor• Major–Major• Major• Major–Minor• Major–Minor–Minor
Bachelor Degree (3 years/15 Courses)	<ul style="list-style-type: none">• Major• Major–Minor• Minor–Minor

Module Options: Biology

- Honours Specialization In Animal Behaviour (BSc)
- Honours Specialization In Biodiversity & Conservation
- Honours Specialization In Biology
- Honours Specialization In Genetics
- Honours Specialization In Genetics & Biochemistry
- Honours Specialization In Synthetic Biology
- Major In Biology
- Major In Ecosystem Health
- Major In Genetics
- Specialization In Biology
- Minor In Biology
- Minor In Genetics

Year One Course Selection

WHAT Should It Include?

- 5.0 courses numbered 1000-1999
- Courses must include at least four different subjects with no more than 2.0 courses in one subject
- At least 1.0 course must be chosen from each of the three categories (A, B, and C) shown below. Any outstanding breadth requirement not completed in first year must be completed prior to graduation.

WHY Do I Need To Take These Courses?

- Choosing courses that fulfill the prerequisites for senior courses (numbered 2000 - 4999)
- Meet graduation requirements

HOW Do I Know What Courses To Select?

- Review the module(s) for the program you are interested in pursuing in the Academic Calendar

WHERE Do I Find The Academic Calendar?

- <https://www.westerncalendar.uwo.ca/>

Enrollment Tips

- Pay Attention to Course Requirements such as prerequisites and antirequisites listed in course descriptions.
- The order of when you take courses can impact your access to courses (i.e. prerequisites) and course credit (i.e. antirequisites). Compare antirequisite information of all your course selections. Keep track of antirequisites so you do not risk losing credit for a course
- Access to Courses: There may be extra enrollment conditions that restrict or delay your access to register in courses. These conditions are referred to as enrollment constraints. Refer to the Notes section in Draft My Schedule or when registering for a course to review the enrollment conditions for the course. Refer to the Enrollment Conditions/Enrollment Constraints section on the Register in Fall/Winter Courses section for more details.
- Essay v. Non-Essay courses: As part of your eventual graduation requirements, you will also be required to take essay courses. See Graduation Requirements for Essay course requirements for the degree.

Enrollment Tips - Typical Errors to Avoid

- Taking more than 1.0 course per year at an Affiliated College (Huron, King's)
- Taking senior courses (numbered 2000 or above) in first year
- Taking too many courses in one subject
- Taking inappropriate 2000-2999 levels (see the specific numbers needed for your module)
- Taking too many first year courses (max 7.0)
- Missing the Category A (e.g. Social Science) and B (e.g. Arts) requirements
- Missing the essay requirements
- Missing prerequisites for courses you are adding

Enrollment Tips - Typical Errors to Avoid

- Taking two courses that are antirequisites* (e.g. 2.0 statistics courses that can't both be counted in your program)
 - If both are taken, only the most recent course credit will be retained for credit.
 - The first course will be noted as RNC meaning repeated, no credit.
 - For example, if Math 1600A/B is completed successfully, and in the next term, a student then completes Math 1229A/B, they will lose credit for Math 1600A/B. Students are strongly advised to review pre- and anti-requisites VERY carefully!
- Overloading (max five 0.5 credit courses/term)
- Forgetting to drop second term courses if you did not complete the prerequisite

*Antirequisites are courses that contain the same or similar content

Course Suffixes

All suffixes are in upper case and indicate the following with regard to course weight and session

No suffix	1.0 course not designated as an essay course
A	0.5 course offered in first term
B	0.5 course offered in second term
A/B	0.5 course offered in first and/or second term
C	January courses in the Faculty of Law (4.0 credit weight)
D	February/March/April (FMA) courses in the Faculty of Law
E	1.0 essay course
F	0.5 essay course offered in first term
G	0.5 essay course offered in second term
F/G	0.5 essay course offered in first and/or second term
H	1.0 accelerated course (8 weeks) in the School of Nursing
J	1.0 accelerated course (6 weeks) in the School of Nursing
K	0.75 course (integrated curriculum of HBA1 program) at the Richard Ivey School of Business
L	Unassigned
M/N/P	Unassigned
Q	0.25 course offered in the first half of first term
R	0.25 course offered in the second half of first term
S	0.25 course offered in the first half of second term
T	0.25 course offered in the second half of second term
U	0.25 course offered in other than a regular session
V	0.375 course offered by the Faculty of Education
W	1.0 accelerated course offered in first term
X	1.0 accelerated course offered in second term
Y	0.5 course offered in other than a regular session
Z	0.5 essay course offered in other than a regular session

HONOURS SPECIALIZATION IN BIOLOGY

FACULTY OF SCIENCE – BIOLOGY



Western

ADMISSION REQUIREMENTS

Completion of first year requirements with no failures. Students must have an average of at least 70% in 3.0 principal courses, including:

[Biology 1001A](#) or [Biology 1201A](#) and [Biology 1002B](#) or [Biology 1202B](#); [Chemistry 1301A/B](#) and [Chemistry 1302A/B](#); plus 1.0 additional course, with no mark in any of these principal courses below 60%.

0.5 course from: [Physics 1201A/B](#), [Physics 1401A/B](#), [Physics 1501A/B](#); the former [Physics 1028A/B](#), the former [Physics 1301A/B](#).

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](#); the former [Applied Mathematics 1411A/B](#), the former [Applied Mathematics 1412A/B](#), the former [Applied Mathematics 1414A/B](#), the former [Applied Mathematics 1413](#), the former [Statistical Sciences 1024A/B](#). If not completed in Year 1, the Mathematics requirement must be completed by the end of Year 2.

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](#).

Honours Specialization in Biology – First Year Course Enrollment Example

Fall Term

- Biology 1001A or Biology 1201A
- Chemistry 1301A
- Physics 1201A or Physics 1401A or Physics 1501A
- Calculus 1000A OR Calculus 1500A
- 1.0 OR a 0.5 of Cat. A or B*

Winter Term

- Biology 1002B or Biology 1202B
- Chemistry 1302B
- Calculus 1301B or 1501B or Math 1225B or Math 1228B or Math 1229B or Math 1600B or Data Science 1000B or Applied Math 1201B
- Continuation of the 1.0 OR a new 0.5 course from Cat A or B*
- 0.5 Elective

*only Science allows students to split their Cat A/Cat B for their Yr. 1 requirements. We recommend/would prefer they do a 1.0 in either A or B

Honours Specialization in Biology

MODULE/PROGRAM INFORMATION

Module

10.0 courses:

6.0 courses: Chemistry 2271A, Chemistry 2272F, Chemistry 2273A, Chemistry 2374A, Chemistry 2281G, Chemistry 2283G, Chemistry 2370A/B (or the former Chemistry 3370A/B), Chemistry 2384B, Chemistry 3371F, Chemistry 3372F/G, Chemistry 3373F, Chemistry 3374A/B.

1.5 courses from*: Chemistry 3300A/B, Chemistry 3320A/B, Chemistry 3330F/G, Chemistry 3364A/B, Chemistry 3391A/B, Chemistry 3393A/B, Biochemistry 2280A, any 0.5 course at the 2000-level or higher from Calculus, Applied Mathematics or Mathematics.

1.0 courses from*: 4000-level Chemistry courses.

1.5 course: Chemistry 4491E.

*Selection from these options must include at least 0.5 from the following: Biochemistry 2280A, Chemistry 3391A/B, Chemistry 4493A/B.

Multiple Modules – Is This Possible?

Two modules cannot be completed in a degree if more than half of the courses in one module are common with courses in the other module (e.g., a Minor having 2.5 or more courses that are common with either a Major or Honours Specialization module cannot be completed in addition to the Major or Honours Specialization module).

Common Courses

A common course is a course that is mandatory in both modules. Courses are not considered common between two modules until all choices from any picklists within the modules are exhausted, i.e., if the choice exists to take another course from a picklist, then another course must be taken (see Exception*).

Science/BMSc (including Neuroscience) students may double-count a maximum of 1.0 common course toward two modules.

When two modules contain more than 1.0 common course, the additional common course(s) must be distributed between the two modules as evenly as possible and substitute course(s) approved by the Department(s) offering the module(s) must be taken to maintain the number of courses required by each module. For example, if there are 2.5 common courses between two major modules, 1.0 can be counted toward both modules and 1.5 substitute courses must be taken (0.5 toward one module and 1.0 toward the other)

**If you are a Science or BMSc (or Neuroscience) student and you are completing a module in another Faculty (e.g., Economics or Psychology in the Faculty of Social Science), you must also consult the other Faculty for information on how they address common courses in shared modules.*

(Some) Questions Submitted

- If I am still undecided which area of study/module/degree plan I am interested – how do I decide which courses I should take in first year?
- What is the difference between an Honours Specialization in Genetics and Biochemistry vs. a Major in Genetics?
- What are the recommended math courses to take for the 1.0 credit?
- When can we apply to the Science Internship Program?
- How do I find out if the admission requirements for a module in Biology are the same as Medical Sciences?
- What are the important deadlines for course registration?
- Are we permitted to take certain courses a second time to obtain a better grade?
- When are students eligible for exchange or study abroad?
- Difficulty vs. Passion – when option exists, how do you decide which to choose?

Questions?

Continue the Conversation....

Welcome Wednesdays

Connect with Science & Basic Medical Sciences Academic Advising office to discuss your academic related questions in advance of course registration & the start of the academic year.

June – August:

- Virtual Zoom Same-Day Appointments every Wednesday
- 10:00 a.m. – 12:00 p.m. (EDT)
- Log in using the Meeting ID: 944 8503 6022 with the password 745451

September – April:

- In Person at our office
- 10:00 a.m. – 12:00 p.m. (EDT)
- North Campus Building, 2nd Floor, Room 280

Thank You!

Academic Advising

Your one-stop-shop
for academic support!



<https://uwo.ca/sci/counselling/>



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