



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:

- Honours Specialization in Environmental Geoscience - For Professional Registration
- Honours Specialization In Environmental Science
- Honours Specialization In Geology - For Professional Registration
- Honours Specialization In Geology & Biology
- Honours Specialization In Geophysics - For Professional Registration
- Major In Environmental Science
- Major In Geology
- Major In Geophysics
- Specialization In Environmental Geoscience - For Professional Registration
- Specialization In Environmental Science
- Specialization In Geology & Biology
- Specialization In Geology - For Professional Registration
- Specialization In Geophysics - For Professional Registration
- Minor In Environmental Science
- Minor In Geology
- Minor In Geophysics
- Minor In Planetary Science & Space Exploration

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 ENVIRONMENTAL SCIENCE

FACULTY OF SCIENCE – EARTH SCIENCES



ADMISSION REQUIREMENTS

Completion of first-year requirements with no failures. Students must have an average of at least 70% in 3.5 principal courses, with no mark in these principal courses below 60%, including:

1.0 course: [Biology 1001A](#) and [Biology 1002B](#) or [Biology 1201A](#) and [Biology 1202B](#).

1.0 course: [Chemistry 1301A/B](#) and [Chemistry 1302A/B](#).

0.5 course from: [Environmental Science 1021F/G](#); a 1000-level 0.5 course in [Geography](#); [Earth Sciences 1022A/B](#), [Earth Sciences 1023A/B](#), [Earth Sciences 1070A/B](#), [Earth Sciences 1081A/B](#); [Physics 1101A/B](#), [Physics 1102A/B](#), [Physics 1201A/B](#), [Physics 1202A/B](#), [Physics 1401A/B](#), [Physics 1402A/B](#), [Physics 1501A/B](#), [Physics 1502A/B](#), the former [Physics 1028A/B](#), the former [Physics 1029A/B](#), the former [Physics 1301A/B](#), the former [Physics 1302A/B](#).

1.0 course from: [Calculus 1000A/B](#) or [Calculus 1500A/B](#) or [Numerical and Mathematical Methods 1412A/B](#) or [Mathematics 1225A/B](#); [Calculus 1301A/B](#) or [Calculus 1501A/B](#) or [Numerical and Mathematical Methods 1414A/B](#); [Mathematics 1228A/B](#), [Mathematics 1229A/B](#) or [Mathematics 1600A/B](#) or [Numerical and Mathematical Methods 1411A/B](#); [Data Science 1000A/B](#); [Applied Mathematics 1201A/B](#); or 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](#).

Honours Specialization in Environmental Science – First Year Course Enrollment Example

Fall Term

- Biology 1001A or Biology 1201A
- Chemistry 1301A
- 0.5 course from: Environmental Science 1021F or a 1000-level 0.5 course in Geography or Earth Sciences 1022A or Earth Sciences 1023A or Physics 1101A or 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 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 Year1 requirements. We recommend you do 1.0 in either A OR B

Honours Specialization in Environmental Science

MODULE/PROGRAM INFORMATION

Module

9.0 courses:

0.5 course: [Biology 2483A/B](#).

0.5 course: [Chemistry 2210A/B](#).

1.0 course: [Environmental Science 3300F/G](#), [Environmental Science 3350F/G](#).

0.5 course: [Biology 2244A/B](#) or [Statistical Sciences 2244A/B](#).

0.5 course: [Geography 2220A/B](#) (strongly recommended) or a Geography half-course from the [Environmental Science Course List](#).

0.5 course at the 2000-level from Earth Sciences courses in the [Environmental Physical Sciences Subject Courses List](#).

1.5 course: [Environmental Science 4999E](#).

0.5 course from: [Environmental Science 4949F/G](#), [Biology 4230A/B](#), [Biology 4405A/B](#), [Biology 4410F/G](#), [Biology 4412F/G](#), [Earth Sciences 4431A/B](#), [Earth Sciences 4440A/B](#).

2.5 additional courses from the [Environmental Science Course List](#), including at least 0.5 course from each of the 3 subject areas.

1.0 additional course at the 3000 level or above from the [Environmental Science Course List](#).

Note: Students should plan the modules taking into account prerequisites of senior courses.

ENVIRONMENTAL LIFE SCIENCES COURSES

- Anthropology 2264A/B, Anthropology 2265A/B, Anthropology 3334F/G; the former Anthropology 2264 F/G, the former Anthropology 2265F/G;
 - Biology 2217A/B, Biology 2485A/B, Biology 3220Z, Biology 3229F/G, Biology 3230F/G, Biology 3403A/B, Biology 3404F/G, Biology 3415F/G, Biology 3435F/G, Biology 3436F/G, Biology 3440A/B, Biology 3442F/G, Biology 3445F/G, Biology 3446A/B, Biology 3475A/B, Biology 3484A/B, Biology 4223F/G, Biology 4230A/B, Biology 4257Z, Biology 4258Z, Biology 4259F/G, Biology 4405A/B, Biology 4410F/G, Biology 4412F/G, Biology 4420A/B, Biology 4436F/G, the former Biology 4405F/G, the former Biology 4243F/G;
 - Earth Sciences 2265A/B, Earth Sciences 3369A/B;
 - Geography 2320A/B, Geography 3224A/B, Geography 3343A/B;
 - Microbiology and Immunology 3100A, Microbiology and Immunology 3500B;
 - Pathology 3500;
- Or a course approved for this category by an Environmental Science counsellor.

ENVIRONMENTAL PHYSICAL SCIENCE COURSES

- Chemical and Biochemical Engineering 4409A/B;
 - Chemistry 2213A/B, Chemistry 2272F, Chemistry 3372F/G;
 - Civil and Environmental Engineering 3328A/B, Civil and Environmental Engineering 3362A/B, Civil and Environmental Engineering 4405A/B, Civil and Environmental Engineering 4465A/B, Civil and Environmental Engineering 4477A/B;
 - Earth Sciences 2200A/B, Earth Sciences 2220A/B, Earth Sciences 2222A/B, Earth Sciences 2230A/B, Earth Sciences 2240F/G, Earth Sciences 2260A/B, Earth Sciences 3240F/G, Earth Sciences 3320A/B, Earth Sciences 3321A/B, Earth Sciences 3340A/B, Earth Sciences 3341A/B, Earth Sciences 3370A/B, Earth Sciences 3372A/B, Earth Sciences 4431A/B, Earth Sciences 4440A/B, Earth Sciences 4451Z, Earth Sciences 4452Z;
 - Geography 2131A/B, Geography 2132A/B, Geography 2133A/B, Geography 2220A/B, Geography 2230A/B, Geography 2310A/B, Geography 2330A/B, Geography 3210A/B, Geography 3211A/B, Geography 3222A/B, Geography 3223A/B, Geography 3231A/B, Geography 3311A/B, Geography 3334A/B, Geography 3341A/B, Geography 3350A/B, Geography 3352A/B, the former Geography 2240A/B, the former Geography 3221A/B, the former Geography 3260A/B, the former Geography 3312A/B, the former Geography 3333A/B, the former Geography 3342A/B;
 - The former Medical Biophysics 3336F/G;
 - Physics 2070A/B;
- Or a course approved for this category by an Environmental Science counsellor.

ENVIRONMENT AND SOCIETY COURSES

- Anthropology 2203F/G, Anthropology 2237A/B, Anthropology 2240A/B, Anthropology 2262A/B, the former Anthropology 2262F/G, the former Anthropology 3369F/G;
 - Economics 2172A/B, Economics 3374A/B;
 - Indigenous Studies 2203F/G, Indigenous Studies 2218F/G, Indigenous Studies 2601F/G, Indigenous Studies 3140F/G, Indigenous Studies 3722F/G, Indigenous Studies 4023F/G, the former First Nations Studies 2111E, the former First Nations Studies 2132F/G, the former First Nations Studies 2203F/G, the former First Nations Studies 2218F/G, the former First Nations Studies 2601F/G, the former First Nations Studies 3140F/G, the former First Nations Studies 3722F/G;
 - Geography All courses in the 2010-2090 series, the 2151-2162 series, and the 2410-2460 series, Geography 3001F/G, Geography 3250A/B, Geography 3432A/B, Geography 3441F/G, Geography 3443A/B, Geography 3445F/G, Geography 3446F/G
 - Earth Sciences 2001F/G;
 - History 2123, History 2211E, History 3217E, History 3721F/G, History 3723F/G, History 4705E;
 - Political Science 2137, Political Science 3208F/G, Political Science 3379E, the former Political Science 2235E;
 - Philosophy 2033A/B, Philosophy 2035F/G, Philosophy 2355F/G, Philosophy 2356F/G;
 - Sociology 2151A/B, Sociology 2155A/B, Sociology 4471F/G;
- Or a course approved for this category by an Environmental Science counsellor.

Note: Students should plan their course selection taking into account prerequisites for senior courses

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?
- Can antirequisite courses be used to instead of the course indicated in the admission/modular requirements?
- Course Offering – Where do you find information about the when it is being offered, the delivery format etc.?
- Are we permitted to take certain courses a second time to obtain a better grade?
- 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/advising/>



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