



Western
UNIVERSITY • CANADA

Prepare for Course Enrollment

Science & Basic Medical Sciences

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

The Bachelor of Medical Sciences (BMSc) Degree

- Four-year undergraduate degrees offered jointly by the Faculty of Science and the Schulich School of Medicine & Dentistry.
- This degree program is designed for students interested in advanced study in the basic medical sciences and focuses on all aspects of biology that define and influence the human condition.
- Emphasis is placed on understanding the normal human condition, mechanisms of current treatment and the search for cures.

The Bachelor of Medical Sciences Disciplines

- Anatomy and Cell Biology
- Biochemistry
- Epidemiology and Biostatistics
- Interdisciplinary Medical Sciences
- Medical Bioinformatics
- Medical Biophysics
- Microbiology and Immunology
- One Health
- Pathology
- Pharmacology
- Physiology

Basic Medical Sciences Program Modules

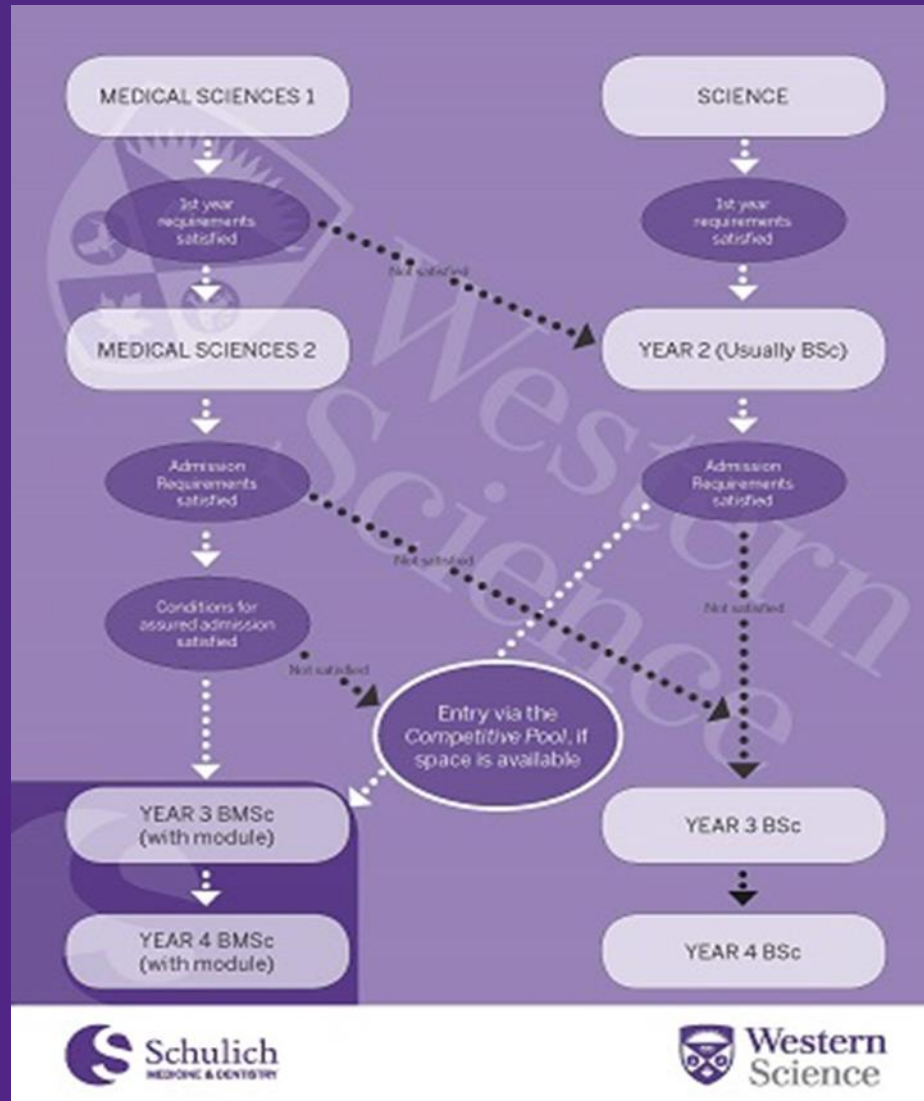
Begins in Year 3, usually following the successful completion of Medical Sciences 1 and 2.

A BMSc or BMSc Honours Degree must contain one of the following modules offered by a Basic Medical Science department:

- An Honours Specialization (HSP) module. Admission into these modules is competitive due to the limited number of spaces available in labs and Year 4 research projects (BMSc Honours).
- Two Major modules, both of which must be offered through the Basic Medical Sciences Departments (BMSc or BMSc Honours).
- Specialization in Interdisciplinary Medical Sciences (IMS) which leads to a BMSc degree.

The majority of BMSc graduates complete Honours Specialization (HSP) modules. Some choose to complete an additional Major or Minor module from either the Basic Medical Sciences or another faculty.

Bachelor of Medical Sciences Pathways



Neuroscience

Students will apply to enter the Honors Specialization in Neuroscience in Year 2 on their Intent To Register (March 2025).

A maximum of 30 students are admitted to Year 2 each year.

The Honours Specialization in Neuroscience is jointly offered by the Departments of Anatomy and Cell Biology and Physiology and Pharmacology in the Schulich School of Medicine & Dentistry, and the Department of Psychology in the Faculty of Social Science.

The Honors Specialization in Neuroscience is a BSc (Honours) degree offered by the Schulich School of Medicine & Dentistry.

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/>

Medical Sciences First Year Course Enrollment

Fall Term

- **Medical Sciences 1000Y**
- **Biology 1001A** or Biology 1201A (with a mark of at least 70%)
- **Chemistry 1301A**
- **Calculus 1000A** OR Calculus 1500A
- **Physics 1201A** or Physics 1501A
- **1.0 OR a 0.5 of Cat. A or B***

Winter Term

- **Medical Sciences 1000Y**
- **Biology 1002B** or Biology 1202B (with a mark of at least 70%)
- **Chemistry 1302B**
- **Applied Math 1201B** or **Calculus 1301B** or **1501B** or **Math 1600B**
- **Computer Science 1026B** or **Physics 1202B** or Physics 1502B
- **Continuation of the 1.0 OR a new 0.5 course from Cat A or B***

1.0 course which may be deferred to either the summer following Medical Sciences 1 or the Fall/Winter of Medical Sciences 2, but is not recommended:

- 0.5 course from: Physics 1201A/B, Physics 1501A/B
- 0.5 course from: Computer Science 1026A/B, Physics 1202A/B, Physics 1502A/B

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

Honours Specialization in Neuroscience – First Year Course Enrollment Example

Fall Term

- **Psychology 1002A** or Psychology 1000
- **Biology 1001A** or Biology 1201A
- **Chemistry 1301A**
- **Calculus 1000A** OR Calculus 1500A
- **Physics 1201A** or a **Course of your choice***

Winter Term

- **Psychology 1003B** or Continuation of Psychology 1000 or **Psychology 1003B**
- **Biology 1002B** or Biology 1202B
- **Chemistry 1302B**
- **Data Science 1000B** (or CS1026 if AM1201A/B is also taken)
- **Course of your choice**

*Note: 0.5 course in physics with a minimum mark of 60% must be completed prior to Year 3 from: Physics 1201A/B or Physics 1501A/B. Enrollment in this course can be in 2025 Summer Term or included in Year 2 Fall Term.

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 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
- Enrolling in the exact same course in each semester: Calc 1000A and Calc 1000B are the exact same course-understand the suffixes

*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

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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