David, a Biomedical Sciences graduate, sits down to coffee with fellow medical school student Lavaanya (another graduate of the University of Waterloo). David firmly believes that his courses, instructors, and lab work fully prepared him for the MCAT exam and surviving the rigorous medical school application process.

**BIOMEDICAL SCIENCES**

![Image of a doctor sitting at a table with a coffee]

**uwaterloo.ca/future/programs/biomedical-sciences**

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**Life is beautiful.**

Study human and other animal systems with respect to their functions related to health, disease, and the healing process. Diversify your knowledge by learning about viruses, bacteria, and other microbes, and how these, along with genetic and environmental influences, can impact health. Examine how the body ages, how disease and injury impacts it, and what diagnostic tools can identify physiological problems.

This program has been designed to help students meet the academic requirements for most health-related professional schools, as well as the standardized tests that can accompany admission (such as the MCAT or OAT). As well, this major doesn't offer co-op on purpose – to reduce the amount of time you are in your undergraduate career so you can move onto the professional school of choice that much sooner.

**POSSIBLE CAREER FIELDS**
- Medicine
- Optometry
- Pharmacy
- Graduate studies
- Medical research and development

**PROFESSIONAL SCHOOLS COMMONLY ATTENDED BY GRADUATES**
- Medical
- Nursing
- Dentistry
- Optometry
- Pharmacy
- Chiropractic
- Physiotherapy

**EDGE CERTIFICATION IS AVAILABLE WITH THIS PROGRAM** – amplifying experiences on your resume and giving you a competitive advantage.

![Certification logo]

**uwaterloo.ca/edge**

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**uwaterloo.ca/science**
COURSE SPOTLIGHT

BIOL 451 ADVANCED IMMUNOLOGY

Vertebrates (including humans) all have immune responses to invading organisms and substances.

Stay current on recent advances in immunology with BIOL 451. Dive into how bodies initiate and regulate immune responses including what happens in cells, tissues, and the lymphoid system. Understand how disease impacts the immune system and the emerging techniques used in immunology.

BIOMEDICAL RESEARCH IS WHERE IT’S AT

Want to take your education to the next level? Many of our students look at grad studies as a logical next step in their career path. The Department of Biology offers three graduate programs that will challenge any student who wants to make a difference in modern medicine.

 › Bioinformatics, Systematics, and Evolution
 › Molecular Genetics
 › Physiology, Cell, and Developmental Biology

SKILLS ATTAINED WITHIN THIS MAJOR

 › Data analysis
 › Laboratory methodology
 › Resiliency
 › Communication
 › Organization and time management

COMMON MINORS

 › Medical Physiology
 › Human Nutrition
 › Gerontology

MEDICAL PHYSIOLOGY MINOR

The Biology and Kinesiology Departments have complementary strengths in medical sciences. The Medical Physiology Minor is designed to assist students pursuing health professional schools, biomedical graduate programs, or health-related careers.

FLEXIBILITY

The Biomedical Sciences program is designed to allow maximum flexibility of the courses you can elect to take. Core courses will give you the foundation to move into the career you want, while a host of electives customizes your degree to your particular interests and to align with the requirements of professional schools.

Available in the REGULAR stream of study only

Apply via the LIFE SCIENCES entry program on OUAC, selecting BIOMEDICAL SCIENCES as the major

OVER 60% of Biomedical Science students intend to further their studies through professional school or graduate studies
### SAMPLE FIRST-TERM SCHEDULE

<table>
<thead>
<tr>
<th></th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
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<tbody>
<tr>
<td><strong>PHYS</strong></td>
<td>1 hr</td>
<td><strong>Cell Biology</strong></td>
<td>1.5 hrs</td>
<td><strong>Physics</strong></td>
<td>1 hr</td>
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<tr>
<td><strong>CHEM</strong></td>
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<td><strong>Chemistry</strong></td>
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<td>1 hr</td>
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<td><strong>Elective 1</strong></td>
<td>1 hr</td>
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<td>1 hr</td>
</tr>
</tbody>
</table>

Course outline and schedule are subject to change at any time.

*Electives can be Science, Program, or Free Electives.

[ugradcalendar.uwaterloo.ca/group/uwaterloo-faculty-of-science](ugradcalendar.uwaterloo.ca/group/uwaterloo-faculty-of-science)