

Undergraduate Program in Biology and
Medicine

UPBM



UNIVERSITY *of* ROCHESTER

UR Curriculum

1. Primary Writing Requirement

2. Course Requirements for a major

Majors fall in one of three broad areas of learning

- Humanities
- Social sciences
- Natural sciences and engineering

3. Cluster in remaining two areas



How it works

- Enter College As Intended Major

- First Two Years

Intended Biology majors take intro BIOL and CHEM courses



All students prepare the same way regardless of BIOL track

Second Year Spring Semester Officially Declare

Meet with Department Advisors

Make schedule to complete requirements



Majors / Biology Tracks

Bachelor of Arts (BA)

- Biology

Bachelor of Science (BS)

- Biology: General Track
- Biochemistry
- Cell & Developmental Biology
- Computational Biology
- Ecology & Evolutionary Biology
- Microbiology
- Molecular Genetics
- Neuroscience



Minors Certificates Clusters

Minors

- Biology
- Computational Biology

Certificate

- Biotechnology

Clusters

- Biological Principles
- Understanding the Biological World



Typical 2-Year Schedule

First Year

Fall

1. Intro Bio I (BIOL 110L or 112L)
2. Gen Chem I (CHEM 131 or 171)
3. Elective or WRT 105
4. Elective

Spring

1. Intro Bio II (BIO 111L or 113L)
2. Gen Chem II (CHEM 131 or 171)
3. Elective or WRT 105
4. Elective

Second Year

Fall

1. Genetics: BIOL 190 or 198
2. Orgo Chem I (CHEM 203/207)
3. Elective
4. Elective

**Spring Schedule: Declare major.
Schedule Varies per major but
typically students take**

1. *Intro Biochemistry (BIOL 250L)
2. *Orgo Chem II (CHEM 204/208)
3. *Biostatistics
4. Elective



AP / IB Transfer Credits

- Four (4) General College Credits
 - AP Exam at least a 4
 - IB Exam at least a 6
- Not Applicable to Biology Majors
- BIO 112 Eligibility
- Note: Can fulfill some chemistry and physics requirements



Preparing for Health Professions

Going Pre-Med

- An interest, not a major
- Simply a matter of taking courses in biology, chemistry, statistics, calculus...
 - The required curriculum for all tracks fulfills all (if not most) general pre-requisite courses for medical school
- See list of pre-requisite courses for medical, dental, and vet programs: <https://www.rochester.edu/college/health/academics/pre-req.html>
- The Greene Center for Career Education and Connections



Research Opportunities

- Many opportunities on River Campus and Medical Center (Hospital)!
- Independent Research – for course credit
- Degree with Honors in Research – senior thesis
- Paid research assistant jobs
- Opportunities to Present and Publish your Research
- deKiewiet Fellowship
- Supporting Professional and Research Competencies (SPARC) – helps students find interests / develop skills
- UR Undergraduate Research Office
- Visit Graduation Newsletter for research activity on recent grads



Other Opportunities

- Biology in the Galapagos Spring Study Abroad
- Summer Research in the Solomon Islands
- iGEMS (The International Genetically Engineered Machine Competition)
- SUBS (Society for Undergraduate Biology Students)
- Journal of Undergraduate Research
- Teaching Assistants (TA)



You are Not Alone

- Professional Advisor
- Academic Faculty Advisor : major
- Peer Advisors
- Gwen Green Career & Internship Center
- College Center for Advising Services



Contact Info


- UPBM Office Hutchison Hall, Room 487 & 488
(585) 275-3850

Email: BioDeptUgOffice@ur.rochester.edu



- [UPBM Peer Advisor Website](#)
- [Undergraduate Program in Biology and Medicine Website](#)
- [Department of Biology Website](#)



Biology Department Website



Department of Biology



Congratulations Class of 2020!

May 15th, 2020 - The Department of Biology virtually conferred degrees to two hundred and twenty majors in the Undergraduate Program in Biology and Medicine (UPBM).

[LEARN MORE](#)

Majors & Minors

Biology is one of the most popular undergraduate programs at Rochester.

[LEARN MORE](#)

Graduate Studies

Our graduate program is designed to foster advanced biological research.

[LEARN MORE](#)

Research

We unify the academic and research strengths of the University and its Medical Center.

[LEARN MORE](#)

UPCOMING EVENTS

June 24, 2 p.m.
Virtual Orientation Event for First-Year Students Preparing to Major within the Biological Sciences [Register here.](#)

[Full Schedule](#)


RECENT NEWS

[Emery Longan recipient of the 2020 Edward Peck Curtis Award for Excellence in Teaching by a Graduate Student](#)

June 10, 2020

A total of 13 Rochester graduate students have been recognized for

NEWSLETTER



SPOTLIGHT ON...

[John Bettinger](#)

Graduate Student, The Ghaemmaghami Lab

My research is one developing the methodology for quantifying in the



Questions?

