Undergraduate Program in Biology and Medicine

UPBM
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

- Biology
- Computational Biology

Clusters

- Biological Principles
- Understanding the Biological World

Certificate

- Biotechnology
# Typical 2-Year Schedule

## First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>1. Intro Bio I (BIOL 110L or 112L)</td>
<td>1. Intro Bio II (BIO 111L or 113L)</td>
</tr>
<tr>
<td>2. Gen Chem I (CHEM 131 or 171)</td>
<td>2. Gen Chem II (CHEM 131 or 171)</td>
</tr>
<tr>
<td>3. Elective or WRT 105</td>
<td>3. Elective or WRT 105</td>
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<tr>
<td>4. Elective</td>
<td>4. Elective</td>
</tr>
</tbody>
</table>

## Second Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring Schedule: Declare major. Schedule Varies per major but typically students take</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Genetics: BIOL 190 or198</td>
<td>1. *Intro Biochemistry (BIOL 250L)</td>
</tr>
<tr>
<td>2. Orgo Chem I (CHEM 203/207)</td>
<td>2. *Orgo Chem II (CHEM 204/208)</td>
</tr>
<tr>
<td>3. Elective</td>
<td>3. *Biostatistics</td>
</tr>
<tr>
<td>4. Elective</td>
<td>4. Elective</td>
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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
Questions?