Biology at Illinois

Two Schools | One Community

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CONGRATULATIONS!

You’ve been admitted to study Biology at Illinois!

Welcome to the Illini family!
TWO SCHOOLS | ONE COMMUNITY

THE SCHOOL OF INTEGRATIVE BIOLOGY

THE SCHOOL OF MOLECULAR & CELLULAR BIOLOGY

TWO SCHOOLS | ONE COMMUNITY
**SHARED SUPPORTING COURSEWORK**

- 2 Semesters Intro Biology & 200-level Labs
- 2 Semesters General Chemistry & Labs
- 1 Semester Organic Chemistry & Lab
- 1 Semester of Calculus/Statistics
- 2 Semesters of Physics & Labs

*These are the typical prerequisites for most pre-health professional programs*
<table>
<thead>
<tr>
<th>Course</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro Biology (IB 150 or MCB 150)</td>
<td>4 Hours</td>
<td>Intro Biology (IB 150 or MCB 150)</td>
</tr>
<tr>
<td>Begin Chemistry</td>
<td>3-5 Hours</td>
<td>Continue Chemistry</td>
</tr>
<tr>
<td>Math or Composition</td>
<td>3-5 Hours</td>
<td>Math or Composition</td>
</tr>
<tr>
<td>1st Year Enrichment</td>
<td>1 Hour</td>
<td>Options: Language, Gen Ed, Elective</td>
</tr>
<tr>
<td>Options: Language, Gen Ed, Elective</td>
<td>0-5 Hours</td>
<td></td>
</tr>
</tbody>
</table>

**Total hours: 14 - 16**
Second Year, Students Choose Their Major

<table>
<thead>
<tr>
<th>Integrative Biology (IB)</th>
<th>Molecular and Cellular Biology (MCB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic Chemistry</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>2 Semesters of Physics</td>
<td>2 – 3 Semesters of Physics</td>
</tr>
<tr>
<td>Biostatistics</td>
<td>Biostatistics or Calculus II</td>
</tr>
<tr>
<td>Physiology</td>
<td>Molecular Genetics</td>
</tr>
<tr>
<td>Ecology</td>
<td>Cell &amp; Developmental Biology</td>
</tr>
<tr>
<td>Genetics</td>
<td>Biochemistry</td>
</tr>
<tr>
<td>Evolution</td>
<td>Microbiology</td>
</tr>
<tr>
<td></td>
<td>Cell &amp; Developmental Biology</td>
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<tr>
<td></td>
<td>Molecular Physiology</td>
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<tr>
<td></td>
<td>Neuroscience</td>
</tr>
<tr>
<td></td>
<td>Biophysics &amp; Quantitative Biology</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Supporting Coursework</th>
<th>Core Coursework for Major</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Molecular Genetics</td>
</tr>
<tr>
<td></td>
<td>Cell &amp; Developmental Biology</td>
</tr>
<tr>
<td></td>
<td>Biochemistry</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14 hours of Advanced Courses</th>
<th>15 hours of Advanced Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topics:</td>
<td>Topics:</td>
</tr>
<tr>
<td>Organismal &amp; Evolutionary Biology</td>
<td>Biochemistry</td>
</tr>
<tr>
<td>Behavior, Ecology &amp; Environment</td>
<td>Microbiology</td>
</tr>
<tr>
<td>Integrative Anatomy &amp; Physiology</td>
<td>Cell &amp; Developmental Biology</td>
</tr>
<tr>
<td></td>
<td>Molecular Physiology</td>
</tr>
<tr>
<td></td>
<td>Neuroscience</td>
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<tr>
<td></td>
<td>Biophysics &amp; Quantitative Biology</td>
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</table>
SAMPLE ADVANCED COURSES*

**Integrative Biology**
- Marine Biology
- Ornithology (study of birds)
- Genes and Behavior
- Animal Behavior
- Conservation Biology
- Anatomy
- Paleoclimatology
- Biological Modeling
- Insect Ecology
- Ecology and Human Health

sib.illinois.edu/courses/area

**Molecular & Cellular Biology**
- Microbiology
- Introduction to Neuroscience
- Mechanisms of Human Disease
- Immunology
- Gene Expression and Regulation
- Neuro & Molecular Pharmacology
- Computing in Molecular Biology
- Global Biosecurity
- Cancer Cell Biology
- Cell Structure and Dynamics

mcb.illinois.edu/undergrad/courses/advanced/

*Comprehensive lists for each major can be found on the Course Catalog website*
>50% of our undergraduate students have research experience.
MCB STUDY ABROAD

LEARN MORE AT: https://mcb.illinois.edu/undergrad/opportunities/study_abroad/
IB STUDY ABROAD

- Tropical Forest Ecology in Panama
- Coral Reef Ecology in Belize
- IB in Vienna (coming soon)

LEARN MORE AT: https://go.illinois.edu/IBStudyAbroad
SUPPORTIVE COMMUNITY

10 PROFESSIONAL ADVISORS

- First resource on campus
- Guide into appropriate courses
- Assist with career planning
- Recommend co-curricular activities
- Refer to appropriate campus resources

“I felt like I was at home with my family whenever I stepped into the Advising Office, and I know that helped me to succeed in my classes and my research.” Kevin Stehlik, MCB class of 2020
SUPPORTIVE COMMUNITY

- Dedicated Faculty & Grad Students
- Alumni Mentoring Programs
- Community Spaces, Learning Centers
- Peer Mentoring Programs
- Biology & Pre-health Specific Student Organizations
- Community Engagement
- and more!

“The community was amazing. Everyone was so helpful and willing to teach/mentor” – IB Senior
WHAT CAN YOU DO WITH A BIOLOGY DEGREE?

Non-Traditional Healthcare  Communication & Outreach  Traditional Healthcare

Research  Biotechnology

...POLICY, LAW, BUSINESS, SUSTAINABILITY & CONSERVATION, AND MORE!
OUR ALUMNI

Healthcare

Business, Law, & Policy

Conservation & Environment

Education & Communication

Research & Biotechnology

Non-Traditional Healthcare

Healthcare

Research & Biotechnology

Conservation & Environment

Education & Communication

Non-Traditional Healthcare
# Advice on AP Credit

<table>
<thead>
<tr>
<th>COURSE</th>
<th>USE CREDIT!</th>
<th>MAYBE USE!</th>
<th>DO NOT USE!</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology Credit</td>
<td></td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>Chemistry Credit</td>
<td></td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Physics Credit</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus Credit</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional Credit</td>
<td>✔</td>
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*Disclaimer: ultimately what credit you use and don’t use is up to you, this is just what we strongly advise*
ADVICE ON AP CREDIT

BIOLOGY & CHEMISTRY

- Strongly suggest against using AP credit for:
  (IB 150, MCB 150, CHEM 102, CHEM 104)
- How can you choose IB or MCB if you haven’t experienced both on this campus?
- Need strong foundation to advance in the curriculum successfully
- Many professional programs do not accept AP credit for prerequisite courses
- AP credit doesn’t factor into your GPA

AP SCORES

- Calculus AB: 4 or 5 | MATH 220
- Calculus BC: 4 or 5 | MATH 220&231
- English Lang & Comp: 4 or 5 | RHET 105
- English Lit & Comp: 4 or 5 | RHET 105
- Physics 1: 5 | PHYS 101
- Physics 2: 5 | PHYS 102
- Psychology: 5 | PSYC 100
- Statistics: 4 or 5 | STATS 100

https://go.illinois.edu/APscores
STUDENT LEADERS

ACCOMPLISHED

SUPPORTIVE

ASK THEM ANYTHING!

FRIENDLY

leaders@biology.illinois.edu
NEXT STEPS
Welcome to Illinois!
ACCEPT YOUR OFFER OF ADMISSION

Accept any time up until May 1st
Pay non-refundable enrollment fee*

Manage your checklist through MYILLINI
Includes financial aid, housing, registration, etc.

*unless approved for fee waiver
NEW STUDENT REGISTRATION

What happens at Summer Registration:
- Meet with a Biology Advisor
- Learn important details about your major
- Tell us about you & your goals
- Register for fall classes (Peer Mentors will assist)

!IMPORTANT!
- BLOCK OFF A FULL DAY!
- Plan for no distractions during registration
- Sign-up will be available in mid-March
- Know your password! You’ll NEED your NetID and NetID password to log in to the course registration system
Online Exams - Open May 1

- Math, ALEKS PPL takes about 1.5 hours
- Chemistry, takes about 30 min
- Biology takes about 35 min – more conceptual
- Foreign Language (LOTE/NPL), if needed
- Not necessary to take MCB or PHYS exams

Take at least 1 week prior to your registration appointment!
Cannot register if you do not take the exams
BIOLOGY AT ILLINOIS

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THANK YOU!
**REQUIRED PLACEMENT EXAMS!**

**Online Exams - Open May 1**

- Math, ALEKS PPL takes about 1.5 hours
- Chemistry, takes about 30 min
- Biology takes about 35 min – more conceptual
- Foreign Language (LOTE/NPL), if needed
- Not necessary to take MCB or PHYS exams

*Take at least 1 week prior to your registration appointment! Cannot register if you do not take the exams*