

# BIOLOGY AT ILLINOIS

*TWO SCHOOLS | ONE COMMUNITY*

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UNIVERSITY OF  
**ILLINOIS**  
URBANA-CHAMPAIGN

# CONGRATULATIONS!

You've been admitted to study Biology at Illinois!

*Welcome to the Illini family!*



THE SCHOOL OF  
INTEGRATIVE BIOLOGY



THE SCHOOL OF  
MOLECULAR &  
CELLULAR BIOLOGY

**I**

*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 \*



# SHARED FIRST YEAR

Typical First Year			
Fall Semester		Spring Semester	
Intro Biology (IB 150 or MCB 150)	<b>4 Hours</b>	Intro Biology (IB 150 or MCB 150)	<b>4 Hours</b>
Begin Chemistry	<b>3-5 Hours</b>	Continue Chemistry	<b>3-5 Hours</b>
Math or Composition	<b>3-5 Hours</b>	Math or Composition	<b>3-5 Hours</b>
1 <sup>st</sup> Year Enrichment	<b>1 Hour</b>	Options: Language, Gen Ed, Elective	<b>0-5 Hours</b>
Options: Language, Gen Ed, Elective	<b>0-5 Hours</b>		
<b>Total hours: 14 - 16</b>		<b>Total hours: 14 - 16</b>	



# SECOND YEAR & BEYOND

Second Year, Students Choose Their Major		
Integrative Biology (IB)		Molecular and Cellular Biology (MCB)
Organic Chemistry 2 Semesters of Physics Biostatistics	Continue Supporting Coursework	Organic Chemistry 2 – 3 Semesters of Physics Biostatistics or Calculus II
Physiology Ecology Genetics Evolution	Core Coursework for Major	Molecular Genetics Cell & Developmental Biology Biochemistry
<b>14 hours of Advanced Courses</b>		<b>15 hours of Advanced Courses</b>
Topics: <i>Organismal &amp; Evolutionary Biology</i> <i>Behavior, Ecology &amp; Environment</i> <i>Integrative Anatomy &amp; Physiology</i>	<b>Advanced Courses</b>	Topics: <i>Biochemistry</i> <i>Microbiology</i> <i>Cell &amp; Developmental Biology</i> <i>Molecular Physiology</i> <i>Neuroscience</i> <i>Biophysics &amp; Quantitative Biology</i>



# 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](http://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

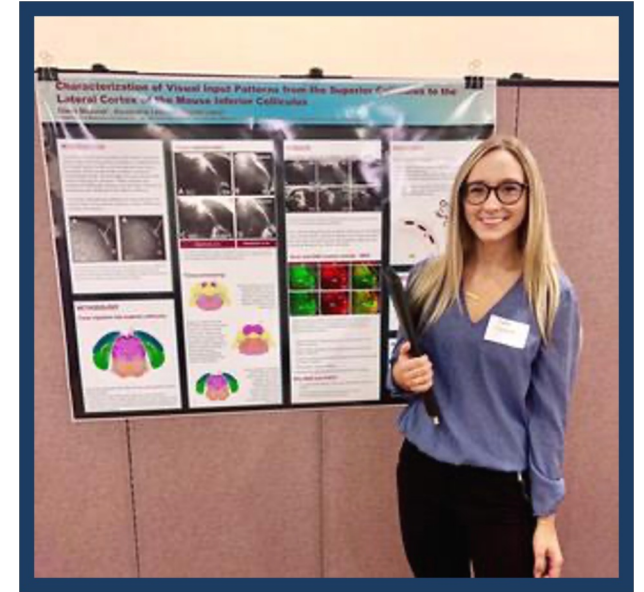
Cancer Cell Biology

Cell Structure and Dynamics

[mcb.illinois.edu/undergrad/courses/advanced/](http://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

**I**



# MCB STUDY ABROAD



Stockholm, Sweden



Newcastle, England

Pavia, Italy



Vienna, Austria



LEARN MORE AT: [https://mcb.illinois.edu/undergrad/opportunities/study\\_abroad/](https://mcb.illinois.edu/undergrad/opportunities/study_abroad/)



# IB STUDY ABROAD

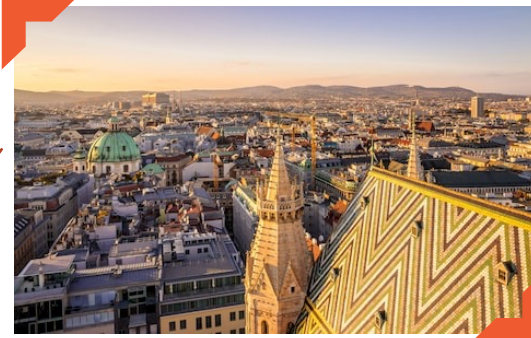


Tropical Forest Ecology in Panama

Coral Reef Ecology in Belize



IB in Vienna (coming soon)



LEARN MORE AT: <https://go.illinois.edu/IBStudyAbroad>

# SUPPORTIVE COMMUNITY

## 10 PROFESSIONAL ADVISORS

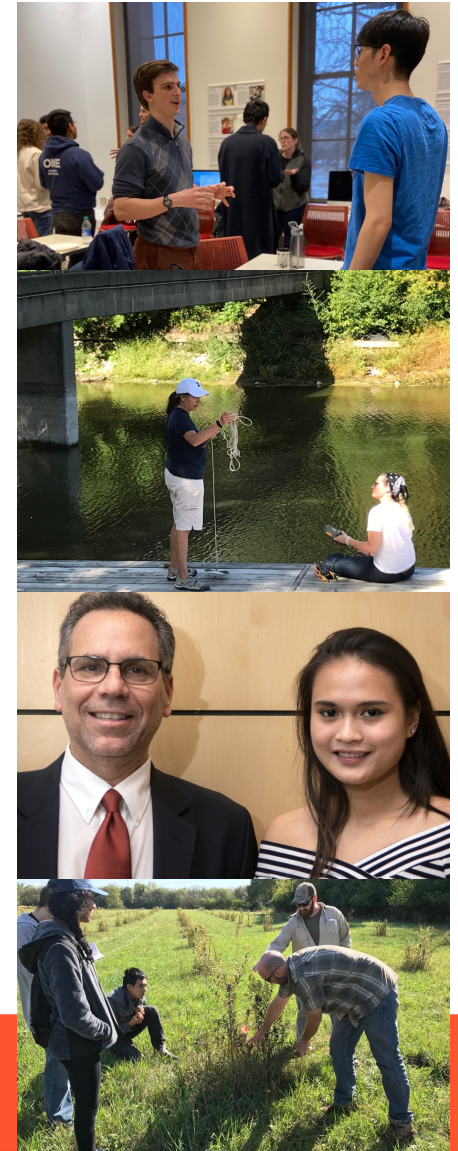
- First resource on campus
- Guide into appropriate courses
- Assist with career planning
- Recommend co-curricular activities
- Refer to appropriate campus resources

*"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!*



I

*"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



Research &  
Biotechnology



Conservation  
& Environment



Business,  
Law, & Policy



Education &  
Communication



Non-Traditional  
Healthcare





# ADVICE ON AP CREDIT

COURSE	USE CREDIT!	MAYBE USE!	DO NOT USE!
Biology Credit			✓
Chemistry Credit			✓
Physics Credit		✓	
Calculus Credit		✓	
Additional Credit	✓		

*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](mailto: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.



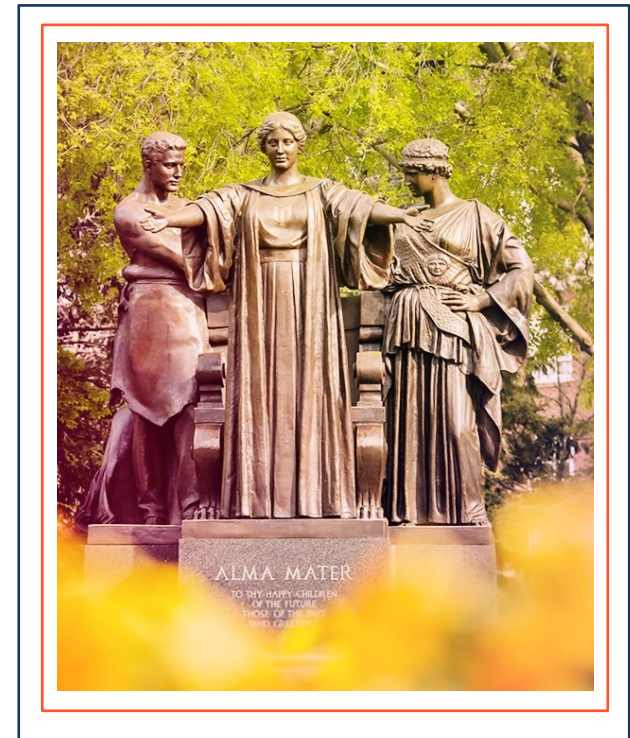
# NEW STUDENT REGISTRATION

## 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*



# !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*

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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



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