



College of Liberal Arts & Sciences

School of Molecular & Cellular Biology

PLEASE SIGN IN!



SCAN ME

https://go.mcb.illinois.edu/NEUR_BIOC



College of Liberal Arts & Sciences

School of Molecular & Cellular Biology

NEUROSCIENCE ADMITTED STUDENT INFORMATION, 2024

Tina M. Knox, Assistant Director for
Advising and Recruitment

Jeremy Toma, PhD
Lecturer in Neuroscience

<https://mcb.illinois.edu/academics/undergraduate-programs/major-neuroscience>



School of Molecular and Cellular Biology - Neuroscience

CONGRATULATIONS!

You've been admitted to study
Neuroscience at UIUC!

Welcome to the Illini family!



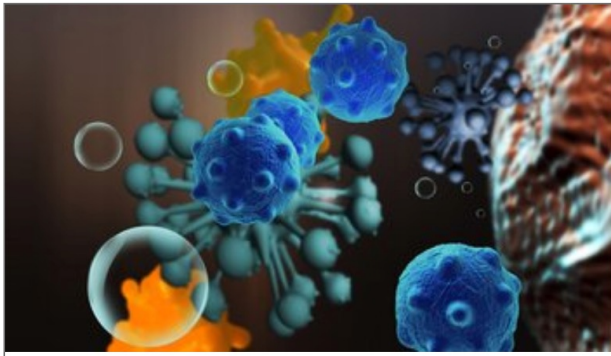
School of Molecular and Cellular Biology - Neuroscience



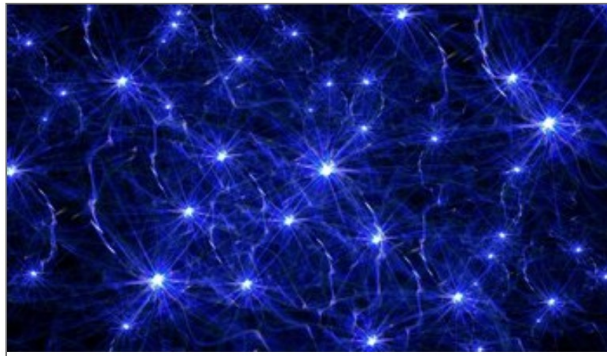
College of Liberal Arts & Sciences

School of Molecular & Cellular Biology

Three Majors in One School



Major in MCB



Major in Neuroscience



Major in Biochemistry



School of Molecular and Cellular Biology

Neuroscience

Interdisciplinary field exploring biological, chemical, and physical processes behind brain and nervous system functions

- How does our brain control movement?
- How do our senses work? How do we hear, smell, taste?
- What is the neuronal nature of pain, sleep, and biological rhythms?
- How can neuropharmacology help us address brain disease?
- What are causes and mechanisms of neurological diseases and disorders?
- What is the underlying physiological basis for sadness or depression?



What Do Neuroscientists Study?

- Development of the brain
- Sensory processing
- Circadian clock/sleep disorders
- Causes of brain diseases/disorders
 - Autism
 - Fragile X Syndrome
- Develop biomedical treatments
 - Epilepsy
 - Alzheimer's
 - Brain Cancer



Major in Neuroscience | School of Molecular & Cellular Biology



Foundation Courses

Foundations in Neurobiology
(Society & the Brain)

Molecular & Cellular Basis of Life

Molecular Genetics

Cells, Tissues & Development

Introduction to Psychology





Supporting Courses

General Chemistry I & II with labs

Organic Chemistry I with lab

College Physics I with lab

Mechanics & Heat

College Physics II with lab

Electrical & Magnetic

Calculus I

Biostatistics or Calculus II



Typical First Year

Fall Semester		Spring Semester	
Molecular & Cellular Basis of Life, MCB 150	4 Hours	Foundations in Neurobiology, MCB 170	3 Hours
Begin Chemistry (Introductory or General with lab)	3-5 Hours	General Chemistry with lab	5 Hours
Math or Composition	3-5 Hours	Math or Composition	4-5 Hours
1 st Year Enrichment	1 Hour	Introduction to Psychology, PSYC 100	4 Hours
Options: Language, Gen Ed, Elective	0-5 Hours	Options: Language, Gen Ed, Elective	0-5 Hours
Total hours: 14 - 16		Total hours: 16 - 17	





Typical Second Year

Fall Semester		Spring Semester	
Molecular Genetics with lab, MCB 250 and MCB 251	5 Hours	Cells, Tissues and Development with lab, MCB 252 and MCB 253	5 Hours
Organic Chemistry lecture	4 Hours	Organic Chemistry lab	2 Hours
Biostatistics or Calculus II STAT 212 or MATH 231	3 Hours	Behavioral or Cognitive Psychology, PSYC 210 or PSYC 224	3 Hours
Options: Language, Gen Ed, Elective, Research	2-5 Hours	Options: Language, Gen Ed, Elective, Research	3-5 Hours
Total hours: 14 - 17		Total hours: 13 - 15	



Major in Neuroscience | School of Molecular & Cellular Biology



Advanced Courses

Introduction to Neurobiology

Neuroanatomy Laboratory

Cell & Membrane Physiology

Systems & Integrative Physiology

Neuro & Molecular Pharmacology

Neurobiology of Mental Illness

Neurobiology of the Senses

Developmental Neurobiology



Typical Third Year

Fall Semester	Spring Semester
Introduction to Neurobiology, MCB 314 3 Hours	Neuroanatomy Laboratory, MCB 460 2 Hours
Biochemical & Physical Basis of Life, MCB 354 3 Hours	Advanced Neuroscience Elective 3 Hours
College Physics: Mechanics & Heat PHYS 101 5 Hours	College Physics: Electrical, Magnetic, and Modern, PHYS 102 5 Hours
Options: Language, Gen Ed, Elective, Research 3-5 Hours	Options: Language, Gen Ed, Elective, Research 3-5 Hours
Total hours: 14 - 16	Total hours: 13 - 15





Typical Fourth Year

Fall Semester		Spring Semester	
Cell and Molecular Neuroscience, MCB 461	3 Hours	Integrative Neuroscience, MCB 462	3 Hours
Advanced Neuroscience Elective	3 Hours	Advanced Neuroscience Elective	3 Hours
Advanced Neuroscience Elective	3 Hours	Advanced Neuroscience Elective	3 Hours
Options: Gen Eds, Electives, Research	6 Hours	Options: Gen Eds, Electives, Research	6 Hours
Total hours: 15		Total hours: 15	





MAJOR IN

NEUROSCIENCE

School of Molecular & Cellular Biology

Careers

Physician (MD,DO)

Scientist (Biotechnology, Pharmaceutical, Universities, Government Agencies)

Speech and Language Therapist

Pharmaceutical or Diagnostic Technician

Policy Maker for Health Organizations



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Opportunities Outside the Classroom

Research	Conduct research in a neuroscience lab led by world-class scientists.
Study abroad	Study abroad while earning credit in advanced courses in your major.
Volunteer	Volunteer at hospitals and health clinics.
Mentor Program	Receive mentoring by an Illinois alumnus in a field of your interest.
Connect	Develop lifelong bonds with fellow students who share your passions.
Intern	Participate in internships. Attend career planning workshops.

STUDENT LEADERS



mcbleaders@life.illinois.edu
Follow us on instagram [@mcb_illinois](https://www.instagram.com/mcb_illinois)

Ritika Jawale, Junior in biochemistry, rjawa2@illinois.edu
Justus Omowumi, Sophomore in neuro, omowumi2@illinois.edu

FRIENDLY



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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



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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*



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BIOLOGY & CHEMISTRY AP

Strongly suggest against using for
(MCB 150, CHEM 102, CHEM 104)

Need strong foundation to be
successful in the curriculum

Many professional programs do not
accept AP credit for prerequisites

AP credit doesn't factor into 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://www.admissions.illinois.edu/apply/freshman/college-credit-ap>



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NEXT STEPS

Welcome to
University of Illinois,
Urbana-Champaign!



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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



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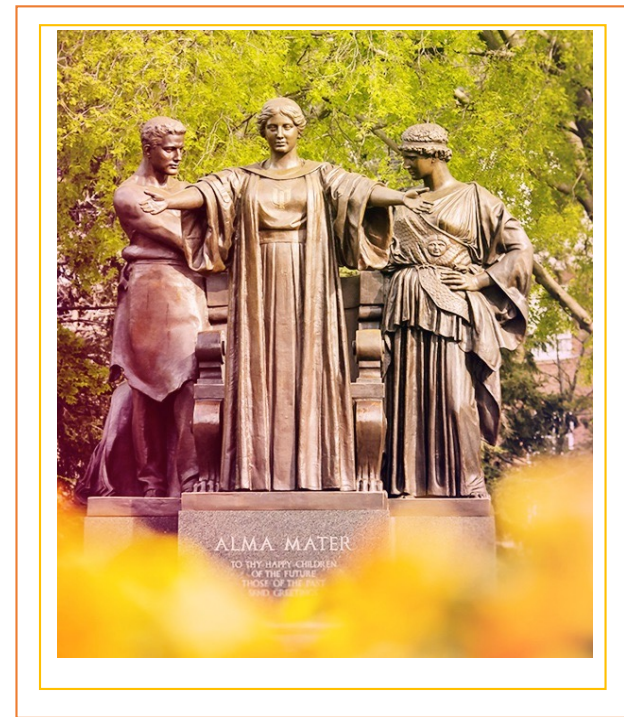
NEW STUDENT REGISTRATION

What happens at Registration:

- Meet with an 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*



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PLACEMENT EXAMS!



Online Exams - Open May 1



Required

Math, ALEKS PPL takes about 1.5 hours

Chemistry, takes about 30 min



Optional

Biology takes about 35 min – more conceptual

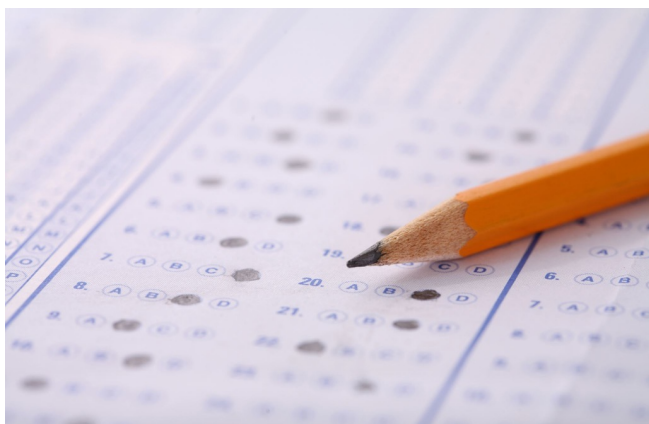
Foreign Language (LOTE/NPL), if needed

Physics



Not necessary

MCB (for transfer students only)



Take at least 1 week prior to your registration appointment!

Cannot register if you do not take the exams



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