2024 - 2025 Major Map

Biology (Pharmacology/Toxicology), BS

School/College: New College of Interdisciplinary Arts and Sciences ASLSCPBS

Term 1 0 - 15 Credit Hours Critical course signified by 🔶	Hours	Minimum Grade	Notes
BIO 181: General Biology I (SCIT OR SQ)	4	С	• MAT 210 or higher-level (MATH) course
MAT 210: Brief Calculus (MATH OR MA) OR MAT 251: Calculus for Life Sciences (MATH OR MA)	3	С	accepted. MAT 251 recommended. Students considering graduate school or
CHM 113: General Chemistry I (SCIT OR SQ)	4	С	research may consider the MAT 270 and
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	С	MAT 271 calculus sequence as an alternative. This may require more than 120 credit hours to complete the degree.ASU 101 or college-specific First-Year
NEW 101: The ASU New College Experience OR IAS 300: Career Strategies and Personal Resilience (L or SB)	1-3		Seminar required of all first-year students. NEW 101 satisfies this requirement.
Term hours subtotal:	15-17		• IAS 300 (three credit hours) is required for

Term hours subtotal:

15

- IAS 300 (three credit hours) is required for all transfer students in place of NEW 101.
- Select your Career Interest Community and play me3@ASU.
- Activate your Handshake account and build out your profile.

Term 2 15 - 30 Credit Hours Critical course signified by 🔶	Hours	Minimum Grade
BIO 182: General Biology II (SCIT OR SG)	4	С
CHM 116: General Chemistry II (SCIT OR SQ)	4	С
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	С
STP 226: Elements of Statistics (QTRS OR CS)	3	С
Elective	1	
Complete ENG 101 OR ENG 105 OR ENG 107 course(s).		

• Create a first draft resume.
• Join a student club or profe

Notes

- Join a student club or professional organization.
- Secure a part-time job or volunteer experience.

Term 3 30 - 45 Credit Hours Critical course signified by 🔶	Hours	Minimum Grade
PHY 111: General Physics (SCIT OR SQ) AND PHY 113: General Physics Laboratory (SCIT OR SQ)	4	С
BIO 201: Human Anatomy and Physiology I (SCIT OR SG)	4	С
CHM 233: General Organic Chemistry I AND CHM 237: General Organic Chemistry Laboratory I	4	С
Social and Behavioral Sciences (SOBE)	3	
Complete CHM 113 AND CHM 116 course(s).		
Complete First-Year Composition requirement.		
Complete Mathematics (MATH) requirement.		
Term hours subtotal:	15	

- Develop your research skills.
- Develop your professional skills.
- Interested in pre-professional pathways? Explore our pre-health and pre-law websites.

erm 4 45 - 60 Credit Hours Critical course signified by 🔶	Hours	Minimum Grade	Notes	
PHY 112: General Physics (SCIT OR SQ) AND PHY 114: General Physics Laboratory (SCIT OR SQ)	4	С	• Explore an internship, an IGLE	
BIO 202: Human Anatomy and Physiology II (SCIT OR SG)	4	С	international experience, or ASU study abroad.	
CHM 234: General Organic Chemistry II AND CHM 238: General Organic Chemistry Laboratory II	4	С		
Humanities, Arts and Design (HUAD)	3			
Term hours subtotal:	15			
erm 5 60 - 76 Credit Hours Necessary course signified by 🔀	Hours	Minimum Grade	Notes	
LSC 347: Fundamentals of Genetics AND LSC 348:		Oraut		
Fundamentals of Genetics Laboratory	4	С	• Thinking about graduate school?	
LSC 362: The Human Environment	3	С	Consider registering for a grad school to prep course and explore accelerated	
Global Communities, Societies and Individuals (GCSI)	3		master's degrees.	
, , , , , , , , , , , , , , , , , , ,			• Develop your professional online	
Humanities, Arts and Design (HUAD) Upper Division Elective	3		presence.	
Term hours subtotal:				
	10	Minimum		
erm 6 76 - 90 Credit Hours Necessary course signified by 🔀	Hours	Grade	Notes	
BIO 320: Fundamentals of Ecology AND LSC 322: Fundamentals of Ecology Laboratory	4	С	• Use Handshake to research employment opportunities.	
BIO 353: Cell Biology AND BIO 354: Cell Biology Laboratory	4	С	• Complete an in person or virtual	
Governance and Civic Engagement (CIVI)	3		practice interview.	
Sustainability (SUST)	3			
Term hours subtotal:	14			
-		Minimum	N (
erm 7 90 - 104 Credit Hours Necessary course signified by 🔀	Hours	Grade	Notes	
BCH 371: Modern Concepts in Biochemistry AND BCH 372: Modern Concepts in Biochemistry Laboratory	4	С	• Gather professional references.	
PTX 432: Fundamentals of Pharmacology OR LSC 432: Fundamentals of Pharmacology	3	С		
MIC 443: The Microbial Universe AND MIC 444: The Microbial Universe Laboratory	4	С		
Upper Division Global and Civic Engagement Requirement: satisfied through completion of 6 credits of upper-division courses with a Global Communities, Societies and Individuals (GCSI) or Governance and Civic Engagement (CIVI) designation, in addition to the courses used to meet the university General Studies requirements; or completion of 3 credits from an ASU-approved Global Education program. Adjustment to upper-division and elective hours is required if a lower-division Global Education course is used.	3	С		
Term hours subtotal	: 14			
erm 8 104 - 120 Credit Hours Necessary course signified by 🛠	Hours	Minimum Grade	Notes	
PTX 475: Principles of Toxicology OR LSC 475: Principles of	3		• Apply for full-time career	
Toxicology			opportunities.	
BIO 360: Animal Physiology AND LSC 359: Animal Physiology Laboratory	4	С		

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or completion of 3 credits from an ASU-approv	ed Global Education	
program. Adjustment to upper-division and electronic	ctive hours is required	
if a lower-division Global Education course is u	ised.	
American Institutions (AMIT)		3
Upper Division Elective		3-0
	Term hours subtotal:	16-13

Hide Course List(s)/Track Group(s)

- Total Hours: 120
- Upper Division Hours: 45 minimum
- University Undergraduate Graduation Requirements

Notes:

Mathematics Placement Assessment score determines placement in first mathematics course.

General Studies designations listed next to courses on the major map were valid for the 2024 - 2025 academic year. Please refer to the course catalog for current General Studies designations at time of class registration. General Studies credit is applied according to the designation the course carries at the time the class is taken.